

*Florida International University*  
*School of Computing and Information Sciences*

Software Engineering Focus

# Final Deliverable

Miami-Dade County Animal Cruelty Registry v1.0  
MAC Team

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***Abstract***

*Animal cruelty is a serious problem, resulting in the abuse of thousands of innocent animals each year. Within the past few years, several Florida counties have launched online Animal Abuser Registries. In favor of this cause, an Animal Abuser Registry was developed for Miami-Dade County to be used by both the public, and the Animal Services Department, where persons convicted of animal cruelty can be identified. The front-end web application shows those who have been convicted of animal abuse by publishing their information. It allows users to search and quickly identify defendants by using different search criteria. In addition, it follows Miami-Dade County standards for accessibility and responsiveness. This document presents the information necessary to gain a good understanding of this animal abuser registry, including user stories, project plan, system design, validation, UML diagrams, manuals, and other related reports.*

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## Introduction

This registry contains information on individual convicted of certain felony and misdemeanor animal abuse offenses and is intended to increase public awareness of animal crimes. The information in this registry allows entities and individuals involved in the sale or adoption of animals to identify offenders during the vetting process and is intended to be an additional resource to assist in the decision making process.

One of the main goals of this initiative is to prevent convicted animal cruelty offenders from owning or adopting an animal in the future. This project will also shine a greater light on those who have been convicted of animal abuse by publishing their information and photo online.

This registry would provide an online resource to assist not only citizens, but also animal benefactor organizations to identify persons with animal cruelty conviction(s). This project is limited to the analysis, design, and development of the front-end (web page) portion of the system. Overall, this project will make an immediate impact within Miami-Dade County and help to protect the wellbeing of the animals who live here.

## Current System

There have been several Animal Abuse Registries throughout Florida counties. It is important for Miami-Dade County to have its own registry, which will work in conjunction with its animal services department. Therefore, Miami-Dade County contacted FIU to build a web application that would publicly display the data of individuals convicted of animal abuse offenses.

The idea is to create a project that followed Miami-Dade County's standards, that was both accessible and responsive to all users.

## Purpose of New System

As discussed above, Miami-Dade County needs an Animal Abuse Registry that provides a resource to identify with animal cruelty conviction, as such a web application was built to allow users to make defendants searchable and sortable by different criteria with the goal of expeditiously providing defendant data based on the user's selection. Therefore, the implemented project contains the following features:

- **Single-page design:** The registry displays to all users the convicted abuser's information in only one page with a modern user experience.
- **Information cards to display information:** The registry includes the defendant's information in an intuitive manner by displaying the information in a format similar to cards, including the convicted abuser's full name, address, date of birth, the offense(s), date of conviction, photograph, amongst other identifiers.
- **Search by:** It as well includes the possibility to search an individual based on their name, date of birth, address, and case number; making it very easy for users to quickly identify individuals.
- **Sort by:** In case of similar information, a sort by option is also implemented by alphabetical order, address, date of birth and expiration date.
- **Responsive website:** The registry is suited to be displayed by both large and small screens.
- **Pagination:** The registry was created with the intention to be scalable and to allow for hundreds of possible defendants, given Miami-Dade wide population. Therefore, pagination was implemented to show from five up to fifty individuals in one single-page.
- **Expand and collapse:** An important consideration was to show as many defendants as possible in one screen, so for every card has a button that allows the user to expand/collapse a card to show only the fundamental information, thus having no need to scroll as much.
- **Print/save as PDF:** The user is able to select the animal abuser's information and print them out so that they can keep it as a physical record if they need to.

- **Accessibility:** The registry was created with the intent to be accessible to all kinds of users, including ones with any impairment. Therefore, the website was developed to be fully navigable with a screen-reader.
- **Miami-Dade County design:** Since the registry is going to be part of Miami-Dade County's website, the registry needed to adapt the look-and-feel of MDC. Therefore, a lot of effort was put into mimicking the styles, this includes utilizing the same CSS framework and following styling guides.

## USER STORIES

The following section provides the detailed user stories that were implemented in this iteration of the Miami-Dade County Animal Cruelty Registry v1.0 project. These user stories served as the basis for the implementation of the project's features. This section also shows the user stories that are to be considered for future development.

### Implemented User Stories

#### [MAC-1] Define Color Scheme

- **Description:** As a user, I would like to see consistent color scheme with Miami-Dade County colors, so that I can recognize the site as being official, and it's cohesive and easy to understand.
- **Acceptance Criteria:**
  - The color scheme conforms to MDC's Communication Department's Standards.
  - The color scheme is cohesive, blue #437AB1, green #687C4C, white #FCFCFC

#### [MAC-2] Fill Fields With Mock Data

- **Description:** As a user, I would like to see information pertaining to animal abusers that is displayed in an organized fashion, so that I can quickly determine if the person should be allowed to adopt a pet or not.
- **Acceptance Criteria:**
  - The fields in the information cards successfully fetch and show data.
  - No issues related to data (e.g. data loss, data vulnerability, etc.)

**[MAC-3] Card Component Prototype**

- **Description:** As a user, I would like to see the information of each person displayed in a card, organized and separate from other people, so that I can easily distinguish what data belongs to who.
- **Acceptance Criteria:**
  - The card shows all of the fields indicated by the project owner, respectively:
    - Defendant Booking MUGID Jail number
    - Defendant name
    - Defendant DOB
    - Defendant address
    - Case number
    - Charge type
    - Charge Degree
    - Charge Statute
    - Charge Description
    - Disposition
    - Disposition date
    - Registry expiration date
  - The card shows an image of the defendant
  - The card is in one independent component and can be re-used

**[MAC-4] Display Several Cards Per Page**

- **Description:** As a user, I would like to see several information cards per page so that I don't have to request for a new page every time I want to see the next animal abuser.
- **Acceptance Criteria:**
  - Several cards are being displayed on the UI
  - The logic of each card is encapsulated in one independent component so it can be repeated as many times as necessary
  - Cards are flexible enough so if some defendants have more than one charge, they are displayed. i.e. one defendant has 1 charge and another has 5 charges.

**[MAC-5] Pagination**

- **Description:** As a user, I would like to have the option to display 10, 25, 50, or ALL information cards, so that if I have a slower connection, I am able to load pages without getting penalized for poor bandwidth.
- **Acceptance Criteria:**
  - I should have a button to change the pagination
  - I should see a specific amount of cards per page, if the option is 10, I should see 10 cards on the page
  - I should go to the previous/next page
  - I should be able to click on a page number and go there

**[MAC-6] Website Description**

- **Description:** As a user, I would like to read a description of the website so that I know if the Animal Abuser Registry is what I'm looking for or not.
- **Acceptance Criteria:**
  - The description is encapsulated in one component
  - The actual description has been provided by the project owner. For now, a mock description will be used

**[MAC-7] Filtering Records**

- **Description:** As a user, I'd like to filter records by 1) Name, 2) DOB, 3) Address, 4) Location, and 5) Registry Expiration Date, so that I can narrow down my search and quickly find animal abusers and determine may be eligible to adopt a pet or not.
- **Acceptance Criteria:**
  - An input form was created containing the following fields: Name, DOB, Address, Location & Registry Expiration Date
  - The records can be filtered in several ways: contains, equal, not equal
  - Able to filter by Name
  - Able to filter by DOB
  - Able to filter by Address
  - Each filter works accordingly

**[MAC-8] Sort by Ascending/Descending Order**

- **Description:** As a user, I would like to sort my filtered results in ascending and descending order, so that I could quickly find the results I'm looking for.
- **Acceptance Criteria:**
  - Records are filtered successfully in ascending order
  - Records are filtered successfully in descending order
  - Records are filtered properly based on pagination (i.e. if only seeing 10 records per page and sorting in ascending order, page 2 shows the sorted 11th record)

**[MAC-10] Social Media Connectivity**

- **Description:** As a user, I'd like to be able to follow Miami-Dade County in different Social Media outlets (e.g. Facebook, Twitter) so that I'm updated with what's going on in the county.
- **Acceptance Criteria:**
  - User is able to share the registry on Facebook, Twitter & Instagram
  - User could share the whole page or one specific person

**[MAC-11] Print Button**

- **Description:** As a user, I would like to multi-select one or more animal abusers' information cards and print them out so that I can keep it as a physical record if I need to.
- **Acceptance Criteria:**
  - Print button allows to print website as a PDF or HTML

**[MAC-13] Report Animal Abuse & Cruelty**

- **Description:** As a user, I would like to be able to report animal abuse and animal cruelty, confidentially or not, so that action and justice can be carried out.
- **Acceptance Criteria:**
  - A Report Animal button/section is implemented
  - The Report Animal sections contains a form where the user can report activity (suspicious or not) of animal abuse & cruelty
  - The information is sent to the proper authority (Todo: Ask Project Owner how this would be done).

**[MAC-14] Resources**

- **Description:** As a user, I would like to know what resources are available to educate myself and others about animal abuse and cruelty, so that we can all contribute in detecting and reporting such acts.
- **Acceptance Criteria:**
  - The side menu shows a resources tab
  - A resources place is created
  - A list of authorized resources is displayed

**[MAC-15] Navigation bar: Side or Top**

- **Description:** As a user, I'd like the website to have a navigation bar so that I can quickly and intuitively go through menus and find what I'm looking for.
- **Acceptance Criteria:**
  - The navigation bar is on the side or top, depending on the website's needs.
  - The navigation bar displays all necessary links, such as FAQ, Resources, Information, etc.

**[MAC-16] Laws & Ordinances (Florida & MDC)**

- **Description:** As a user, I'd like to learn what laws and ordinances that pertain to animal abuse and cruelty govern over Miami-Dade County and the State of Florida, so that I can be a better citizen and follow the law.
- **Acceptance Criteria:**
  - The navigation bar is on the side or top, depending on the website's needs.
  - The navigation bar displays all necessary links, such as FAQ, Resources, Information, etc.

**[MAC-19] Responsive Site**

- **Description:** As a user, I would want the website to be responsive so that I can navigate the site easily and at my convenience from any computer, mobile, or tablet device without suffering bad rendering.
- **Acceptance Criteria:**
  - Website renders in mobile
  - Website renders in tablet
  - Website renders in desktops

**[MAC-25] Breadcrumbs**

- **Description:** As a user, I want to see the 'breadcrumbs' of the page where I'm at, with hyperlinks to the parent page, so that I can easily understand the hierarchy of the website, and backtrack if I need to.
- **Acceptance Criteria:**
  - Breadcrumbs appear somewhere along the top-side of the website, conforming to MDC Standards.
  - Breadcrumbs have a link to each of the parent sites, showing the appropriate hierarchy/nesting.
  - Current site is not hyperlinked.

**[MAC-26] Download as CSV**

- **Description:** As a user, I want the perpetrators' data to be available as a CSV (comma-separated value) file, so that I can quickly work with the data in spreadsheet software like Excel.
- **Acceptance Criteria:**
  - User is able to select whatever information he/she wants and download it as a CSV.
  - CSV data is formatted correctly, saved in the correct file type.
  - Data is correct.

**[MAC-29] Mock Footer**

- **Description:** Mock the Footer from Miami Dade County's website as we do not have the actual code for the Footer. This will improve the look-and-feel of the MAC website.
- **Acceptance Criteria:**
  - The footer should show at the bottom of the page
  - The footer should be an image, exactly the same as the one from MDC's website
  - The image should be adjusting to cover 100% of the width of the website

**[MAC-30] Mock Header**

- **Description:** Mock the Header from Miami Dade County's website as we do not have the actual code for the Header. This will improve the look-and-feel of the MAC website.
- **Acceptance Criteria:**
  - The header should show at the top of the page
  - The header should be an image, exactly the same as the one from MDC's website
  - The image should be adjusting to cover 100% of the width of the website

**[MAC-31] Create Layout Including Sidemenu and Card component**

- **Description:** Create Layout Including Sidemenu and Card component
- **Acceptance Criteria:**
  - There's a container which covers 70% of the website's width
  - The container is divided in two sections, one is 30% and the other 70% of the website.
  - In the 30% part there's space for a sidemenu
  - In the 70% part there's space for the card components, the description and any other elements.

**[MAC-34] Make Sidemenu Responsive Skip to end of metadata**

- **Description:** As a mobile user, I'd like to see the sidemenu to be responsive and move from the side to the top of the website, so that I could easily view the content of the website on my mobile device.
- **Acceptance Criteria:**
  - Sidemenu is responsive in all mediums (desktop, tablet, phone), and it renders content without errors.

**[MAC-35] Make Card component responsive**

- **Description:** As a mobile user, I'd like to see the card to be responsive, so that I could easily view the defendants' information on my mobile device.
- **Acceptance Criteria:**
  - The information card can be rendered in any size medium without any issues.

**[MAC-39] Collapse Card Body**

- **Description:** As a user, I'd like to see several information cards in my screen at once and still see the most relevant information of the perpetrator, so that I don't have to scroll as much.
- **Acceptance Criteria:**
  - A button allows the card to collapse.
  - The collapsed card takes less vertical space than the extended card.
  - The collapsed card has enough relevant information.

**[MAC-40] Expand Card Body**

- **Description:** As a user, I'd like to see several information cards in my screen at once and then being able to expand the ones so I can see additional information of the perpetrator.
- **Acceptance Criteria:**
  - A button allows the user to expand the card.
  - The expanded card has a table with additional information about the criminal.

**[MAC-41] Search by Case #**

- **Description:** As a user, I want to be able to search the registry by case # so that I can quickly find the perpetrator I'm looking for.
- **Acceptance Criteria:**
  - When clicking on the Filters button, the Case # shows
  - When selecting the Case #, all the information cards are filtered based on the Case #

**[MAC-42] Leaving Site Disclaimer**

- **Description:** As a user, I would like to be made aware that a link will redirect me to an external site, so that I can confidently navigate MDC's site and know exactly when I'm leaving it
- **Acceptance Criteria:**
  - When clicking on a link to outside miamidade.gov, a modal (alert) comes up before redirection.
  - user is given the option to click OK and proceed, or CANCEL and stay in the current site.
  - Must be responsive.
  - Must be accessible.

**[MAC-43] Sort by DOB (Newest/Oldest)**

- **Description:** As a user, I would like to sort the registry by the newest or oldest date of birth, so that I can easily traverse through the data.
- **Acceptance Criteria:**
  - When clicking on the Sort by button, the DOB (Newest/Oldest) option shows
  - When selecting the DOB (Newest/Oldest), all the information cards are sorted by the DOB (Newest/Oldest)

**[MAC-44] Sort by Registry Exp Date (Newest/Oldest)**

- **Description:** As a user, I would like to sort the registry by newest/oldest registry expiration date so that I can quickly determine who's about to leave the registry, and find those who I'm looking for.
- **Acceptance Criteria:**
  - When clicking on the Sort by button, the Registry Exp Date (Newest/Oldest) option shows
  - When selecting the Registry Exp Date (Newest/Oldest), all the information cards are sorted by the Registry Exp Date (Newest/Oldest)

**[MAC-45] Expand/Collapse All**

- **Description:** As a user, I'd like to have a button that allows me to expand all Information Cards' so that I can quickly view all data.
- **Acceptance Criteria:**
  - A button that when toggles all cards between expanded and collapsed form.
  - Must account for edge cases (when not all cards are expanded/collapsed)

**[MAC-48] [ACCESSIBILITY] READER: NVDA**

- **Description:** As a User with accessibility, I would like to traverse the site with NVDA's screen reader so that I can navigate through it
- **Acceptance Criteria:**
  - The user is able to traverse the whole website using Mac Voiceover
  - The user traverses the side menu
  - The user traverses the information cards
  - The user is able to traverse using pagination

**[MAC-49] [ACCESSIBILITY] READER: Mac Voiceover**

- **Description:** As a User with accessibility, I would like to traverse the site with Mac's Voiceover so that I can navigate through it
- **Acceptance Criteria:**
  - The user is able to traverse the whole website using Mac Voiceover
  - The user traverses the side menu
  - The user traverses the information cards
  - The user is able to traverse using pagination

**Pending User Stories**

N/A

## PROJECT PLAN

This section describes the planning that went into the realization of this project. This project incorporated the agile development techniques and as such required the sprints to be planned. These sprint plannings are detailed in the section. This section also describes the components, both software and hardware, chosen for this project.

### Hardware and Software Resources

The following is a list of all hardware and software resources that were used in this project:

#### Hardware Resources

The following is a list of all hardware and software resources that were used in this project:

Development:

- 2 x 13-inch MacBook Pro: 2.3GHz dual-core Intel Core I5, 8GB RAM, 128GB SSD

Client:

- Any device with internet connection and with a web browser, such as Google Chrome, Mozilla Firefox, Safari, Microsoft Edge, or Internet Explorer.

#### Software Resources

Development:

- Visual Studio Code: integrated development environment
- Node.js: open-source, cross-platform JavaScript run-time environment
- NPM: a package manager for the JavaScript programming language
- Git: version control system software
- JIRA: project management software
- Bitbucket: Git repository management and sharing software
- Hipchat: communication software
- Confluence: documentation software

Production:

- Heroku: Platform as a Service for deployment to the cloud

## Sprints Plan

### *Sprint 1*

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez, Daniel Stanisky

**Start time:** 09:00 AM

**End time:** 10:12 AM

**Velocity:** After discussion, the velocity of the team were estimated to be <50h>.

**Goal:** Our goal on Sprint 1 is to create the pillars of the site and start giving shape to the project so that we'll have enough feedback and direction for Sprint 2. It will be successful sprint if we complete the information card and we are able to fetch data and display it appropriately.

**User stories:**

The team members indicated their willingness to work on the following user stories:

PABLO MUELLER

MAC-3 - Card Component Prototype

MAC-4 - Display Several Cards Per

MAC-1 - Define Color Scheme

MAC-25 - Breadcrumbs

MAC-30 - Mock

MAC-31 - Create Layout Including Sidemenu and Card component DONE

EDDY MOGOLLON

MAC-3 - Card Component Prototype

MAC-2 - Fill Fields With Mock Data

MAC-6 - Website Description

MAC-4 - Display Several Cards Per Page

MAC-29 - Mock Footer

MAC-31 - Create Layout Including Sidemenu and Card component DONE

## ***Sprint 2***

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez

**Start time:** 02:00 PM

**End time:** 02:55 PM

**Velocity:** After discussion, the velocity of the team were estimated to be <56h>.

**Goal:** Our goal on Sprint 2 is to have a potential final Card Component that the PO is happy with - fully styled and functional. Other general site functionality such as responsiveness will come into play, as we'll want feedback from the PO for it. Additionally, we want to start setting up things for Sprint 3, thus we'll start researching, designing, and maybe even mocking a search bar.

### **User stories:**

The team members indicated their willingness to work on the following user stories:

#### **PABLO MUELLER**

MAC-37 - Style Card Header

MAC-38 - Style Card Body

MAC-28 - Wireframe

MAC-34 - Make Sidemenu Responsive

MAC-35 - Make Card component responsive

#### **EDDY MOGOLLON**

MAC-40 - Expand Card Body

MAC-39 - Collapse Card Body

MAC-36 - Search Bar Research & Design

MAC-8 - Sort by Ascending/Descending Order

### ***Sprint 3***

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez

**Start time:** 12:00 PM

**End time:** 12:45 PM

**Velocity:** After discussion, the velocity of the team were estimated to be <56h>.

**Goal:** Our goal on Sprint 3 is to work on peripheral components to the application, while we receive final approval on the component cards by all stakeholders, including our final costumer, MDC Animal Services.

**User stories:**

The team members indicated their willingness to work on the following user stories:

PABLO MUELLER

MAC-11 - Print Button

MAC-18 - Download Button

MAC-26 - Download As CSV

MAC-19 - Responsive Site

EDDY MOGOLLON

MAC-17 - Registry FAQ

MAC-7 - Filtering Records

MAC-15 - Filter bar (design): Top or Side

MAC-32 - WCAG 2.1 Conformity

### ***Sprint 4***

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez

**Start time:** 04:00 PM

**End time:** 4:45 PM

**Velocity:** After discussion, the velocity of the team were estimated to be <56h>.

**Goal:** Our goal on Sprint 4 is to work on the features that were developed based on the feedback given by Animal Services Department (ASD) and MDC. These stories are a numerous, but with small goals.

**User stories:**

The team members indicated their willingness to work on the following user stories:

PABLO MUELLER

MAC-42 - Leaving Site Disclaimer

MAC-41 - Search by Case #

MAC-16 - Laws & Ordinances (Florida & MDC) (Link Management)

MAC-9 - Language: Spanish

MAC-14 - Resources

MAC-45 - Expand/Collapse All

EDDY MOGOLLON

MAC-5 - Pagination

MAC-32 - WCAG 2.1 Conformity

MAC-6 - Website Description

MAC-43 - Search by DOB (Newest/Oldest)

MAC-44 - Sort by Registry Exp Date (Newest/Oldest)

### ***Sprint 5***

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez, Eric Sanchez

**Start time:** 07:00 PM

**End time:** 07:45 PM

**Velocity:** After discussion, the velocity of the team were estimated to be <56h>.

**Goal:** Our goal this spring changes drastically from development into site improvements, specifically tackling an extremely problem for the county: accessible websites conforming to WCAG and ADA standards.

**User stories:**

The team members indicated their willingness to work on the following user stories:

PABLO MUELLER

MAC-50 - [ACCESSIBILITY] Refactor all in-line CSS

MAC-49 - [ACCESSIBILITY] READER: Mac Voiceover

EDDY MOGOLLON

MAC-46 - [ACCESSIBILITY] ARIA-LABELS

MAC-48 - [ACCESSIBILITY] READER: NVDA

MAC-47 - [ACCESSIBILITY] ARIA-LIVE

### ***Sprint 6***

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez, Daniel Stanisky

**Start time:** 03:00 PM

**End time:** 04:00 PM

**Velocity:** After discussion, the velocity of the team were estimated to be <56h>.

**Goal:** Our goal on Sprint 6 is to finish the accessibility portions of the website, making sure that a visually impaired person is able to navigate the website with ease. In addition, for Sprint 6 our goal is to finish writing all the necessary documentation in advance before the presentation.

**User stories:**

The team members indicated their willingness to work on the following user stories:

PABLO MUELLER

MAC-48 - [ACCESSIBILITY] READER: NVDA IN PROGRESS [ACCESSIBILITY]

EDDY MOGOLLON

MAC-49 - [ACCESSIBILITY] READER: Mac Voiceover

### ***Sprint 7***

**Attendees:** Pablo Mueller, Eddy Mogollon, Jay Alvarez, Daniel Stanisky

**Start time:** 02:00 PM

**End time:** 04:00 PM

**Velocity:** After discussion, the velocity of the team were estimated to be <56h>.

**Goal:** Our goal for Sprint 7 is to finish all the documentation, the final deliverables, and wrap up any minor details. In addition, our goal is to perform a successful Senior Project Showcase!

**User stories:**

For this sprint, the team members will finish working on the final document, the Power Point presentation, the videos. In addition, the team members will prepare for the Senior Project Showcase.

## SYSTEM DESIGN

This section contains information on the design decisions that went into this project. The architecture patterns are outlined and explained. The entire system is shown in a package diagram and the subsystems are explained. Finally, the design patterns used in the project are discussed.

### Architectural Patterns

The Animal Service Registry follows two architectural patterns: the Flux Architecture and the Event-Driven Architecture (EDA).

The application uses Event-driven architecture to derive visual changes within the application by working on the React and Redux libraries. EDA acts as a software architecture pattern for the front-end part of the application, which consists of event producers that generate events, and event consumer that consume and react to events. The definition of event is anything that happens at a specific moment and can be recorded. For example, in the case of the registry, when the user clicks a Search button, or decides to Sort the information cards.

As for the Flux Architecture, it is a unidirectional data flow pattern that fits into the components architecture of the application and blends very well with the React library. In the case of the application, the Flux architecture is implemented via Redux, which closely follows the Flux architecture and its main ideas, with some differences such as featuring a single store. The Flux architecture is an alternative to the MVC architecture. Instead of Model-View-Controller, Flux features actions which are sent through a central dispatcher to a store, and changes to the store are propagated back to the view. The view, in this case, is built with the React library. By implementing the Flux Architecture via Redux, the user interface code of the application is separated from the logical code. This effectively allows for high cohesion and low coupling which also allows the reusability of components across the application.

## System and Subsystem Decomposition

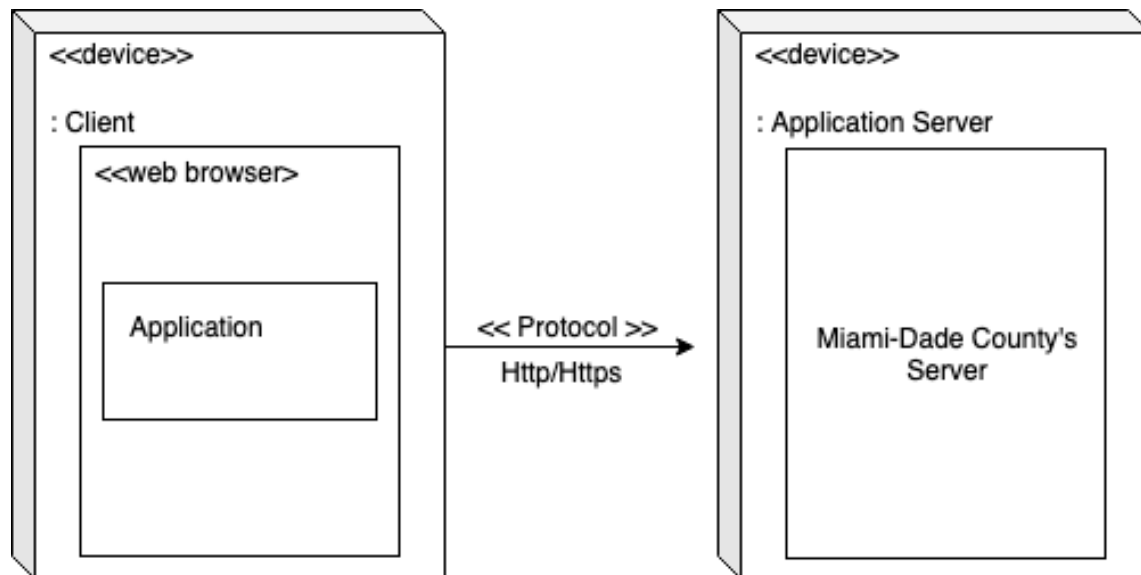
The Animal Service Registry application consists of a front-end web application implemented in ReactJS, JavaScript, HTML5 and CSS. A Node.js server is required to compile and execute the application. Webpack serves as a module bundler to compile the whole project.

The front-end lies within the root directory. All the front-end dependencies are listed on the package.json file, and the dependencies are located in the node\_modules folder. The UI (or View) of the project is built with the React library, which separates the many parts of the user-interface into components. The React components reside within the *src* directory.

The root component is App.js which renders the Register and its sub-components. For Routing, the registry uses the React-router library; the registry currently only has one view (the registry), but more views will be shown when the registry is fully integrated into Miami-Dade County's ecosystem.

For state management, the application uses the Redux library, which as it was said previously, follows the Flux architecture with some minor differences. Redux contains a central store to manage all the application state, and the state changes are managed in a unidirectional data flow, which means that all data in an application follows the same lifecycle pattern, making the logic of the application more predictable and easier to understand. Redux contains **actions** and **reducers** that manage these state changes. Actions are payloads of information that send data from your application to your store. They are the only source of information for the store. Reducers specify how the application's state changes in response to actions sent to the store. The logic for the actions and reducers is located inside the src directory, and they have their own respective directories as well.

## Deployment Diagram



## Design Patterns

As it was stated before, the project follows the Flux architecture, which is a variant of the observer pattern. In this case, the Flux (or observer) pattern allows communication between the components and subcomponents (subsystems) while maintaining the components decoupled. The Observer pattern allows communication between subsystems and maintains all subsystems decoupled. In the case of the application, Redux follows the observer pattern as well, for the store that handles the data, Redux uses the subscribe method that is used by components to subscribe to changes in the state tree.

In addition, React was implemented to build the user interface and find a way to interact with the different parts of the application. React encompasses several design principles that are useful for our application, for example, the case for building a loosely-coupled system or having interoperability with existing systems within the Miami-Dade ecosystem.

## System Validation

### Test case ID: MAC-2-T01

- **Description/Summary of Test:**
  - Validate that all the fields in the card are there and are correct
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** All the fields in the card component are there and are valid
- **Actual Result:** All the fields are correct
- **Status (Fail/Pass):** Pass

### Test case ID: MAC-5-T01

- **Description/Summary of Test:**
  - Click on Cards Per Page and changed the cards per page state
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** User clicks a different page number and the cards per page displayed change
- **Actual Result:** Cards per page are changed based on the user's input
- **Status (Fail/Pass):** Pass

### Test case ID: MAC-5-T02

#### Description/Summary of Test:

- Click on another page number through the pagination at the bottom
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal, and the user scrolled all to the bottom
- **Expected Results:** The site navigates up to the Search bar and new cards are displayed based on the page number
- **Actual Result:** New cards are displayed
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-7-T01****Description/Summary of Test:**

- Click on the filters button, select the Filter option “Name” and press Search
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** New cards are displayed on the site based on the filter criteria.
- **Actual Result:** New cards are displayed on the site based on the filter criteria.
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-7-T02****Description/Summary of Test:**

- Click on the filters button, select the Filter option “Date of Birth” and press Search
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** New cards are displayed on the site based on the filter criteria.
- **Actual Result:** New cards are displayed on the site based on the filter criteria.
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-7-T03****Description/Summary of Test:**

- Click on the filters button, select the Filter option “Address” and press Search
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** New cards are displayed on the site based on the filter criteria.
- **Actual Result:** New cards are displayed on the site based on the filter criteria.
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-7-T04****Description/Summary of Test:**

- Click on the filters button, select the Filter option “Case #” and press Search
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** New cards are displayed on the site based on the filter criteria.
- **Actual Result:** New cards are displayed on the site based on the filter criteria.
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-8-T01****Description/Summary of Test:**

- Click on the Sort by dropdown, select the option “Newest Record”
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** The cards are displayed based on the sort by criteria
- **Actual Result:** The cards are displayed based on the “Newest Record” option
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-8-T02****Description/Summary of Test:**

- Click on the Sort by dropdown, select the option “A-Z” or “Z-A”
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** The cards are displayed based on the sort by criteria (either A-Z or Z-A)
- **Actual Result:** The cards are displayed based on the “A-Z” or “Z-A” options
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-8-T03****Description/Summary of Test:**

- Click on the Sort by dropdown, select the option “Address”
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** The cards are displayed based on the sort by criteria
- **Actual Result:** The cards are displayed based on the “Address” option
- **Status (Fail/Pass):** Pass

**Test case ID: MAC-8-T04****Description/Summary of Test:**

- Click on the Sort by dropdown, select the option “Date of Birth”
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** The cards are displayed based on the sort by criteria
- **Actual Result:** The cards are displayed based on the “Date of Birth” option
- **Status (Fail/Pass):** Pass

**Test case ID:** MAC-11-T01**Description/Summary of Test:**

- User finds and navigates to the information card desired. User clicks on 'Print/Save as PDF' button.
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** The Print button was clicked and the user is redirected to another route
- **Actual Result:** The Print button was clicked and the user is redirected to another route
- **Status (Fail/Pass):** Pass

**Test case ID:** MAC-39-T01**Description/Summary of Test:**

- User clicks on 'Show Less' button in the information card menu (blue bar).
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** Information card collapses and all additional fields (Jail ID, Charges, Disposition Date, etc) are hidden.
- **Actual Result:** Information card collapses and all additional fields (Jail ID, Charges, Disposition Date, etc) are hidden.
- **Status (Fail/Pass):** Pass

**Test case ID:** MAC-40-T01**Description/Summary of Test:**

- User clicks on 'Show More' button in the information card menu (blue bar).
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** Information card collapses and all additional fields (Jail ID, Charges, Disposition Date, etc) are shown.
- **Actual Result:** Information card collapses and all additional fields (Jail ID, Charges, Disposition Date, etc) are shown.
- **Status (Fail/Pass):** Pass

**Test case ID:** MAC-42-T01**Description/Summary of Test:**

- Click on a link outside miamidade.gov
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** New cards are displayed on the site based on the filter criteria.
- **Actual Result:** New cards are displayed on the site based on the filter criteria.
- **Status (Fail/Pass):** Pass

**Test case ID:** MAC-45-T01**Description/Summary of Test:**

- Click on the Expand/Collapse button
- **Pre-condition:**
  - The user navigates from the Miami-Dade County Website to the MDC Animal Abuse & Cruelty Registry Portal
- **Expected Results:** All information cards are expanded or collapsed, depending on their state.
- **Actual Result:** All information cards are expanded or collapsed, depending on their state.
- **Status (Fail/Pass):** Pass

## Glossary

In this chapter we listed the terms that may require some clarifications when reading this document. The glossary contains terms that are mentioned several times around this final document.

**MAC:** Acronym that stands for **M**iami-**D**ade **A**nimal **C**ruelty

**Defendant:** an individual, company, or institution sued or accused in a court of law.

**MDC:** **M**iami-**D**ade **C**ounty

**ASD:** Acronym that stands for **A**nimal **S**ervices **D**epartment

**ITD:** **I**nformation **T**echnology **D**epartment

## APPENDIX

### Appendix A – UML Diagrams

Figure A-1 [MAC-2] Use Case Diagram

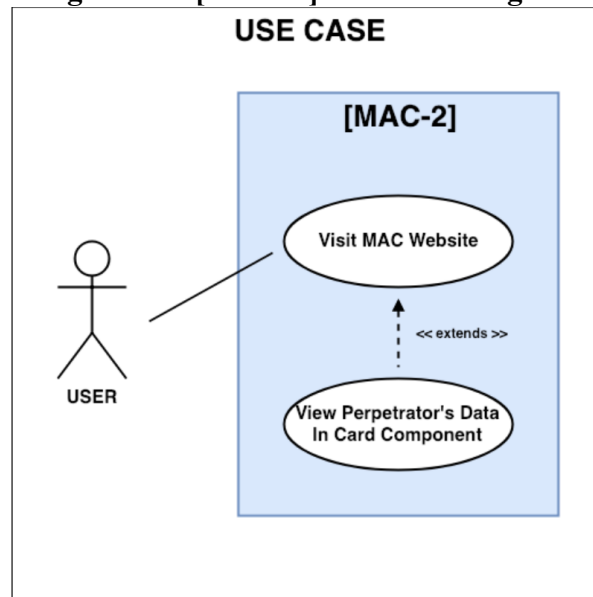


Figure A-2 [MAC-2] Sequence Diagram

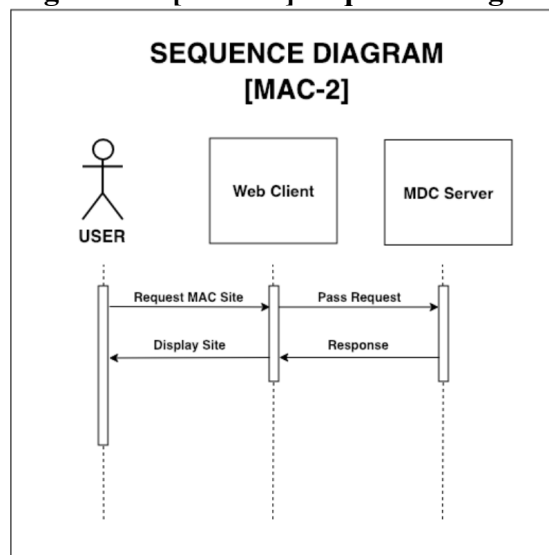


Figure A-3 [MAC-2] Class Diagram

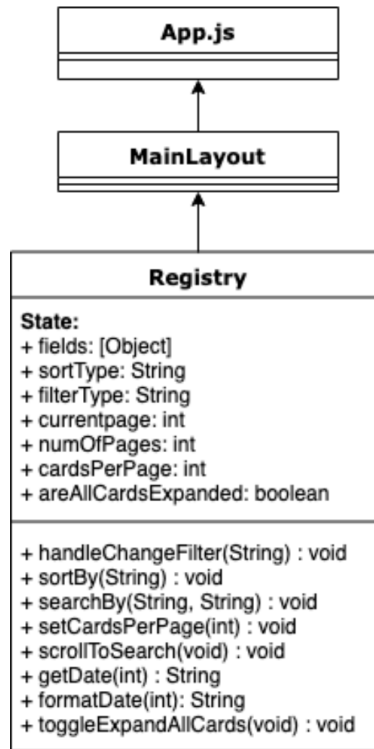
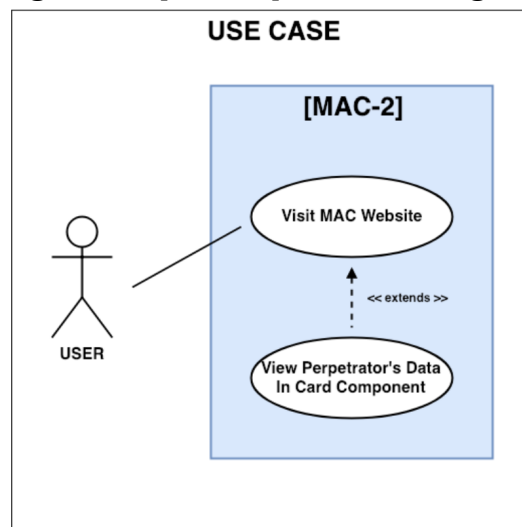


Figure A-4 [MAC-3] Use Case Diagram



**Figure A-5 [MAC-3] Sequence Diagram**

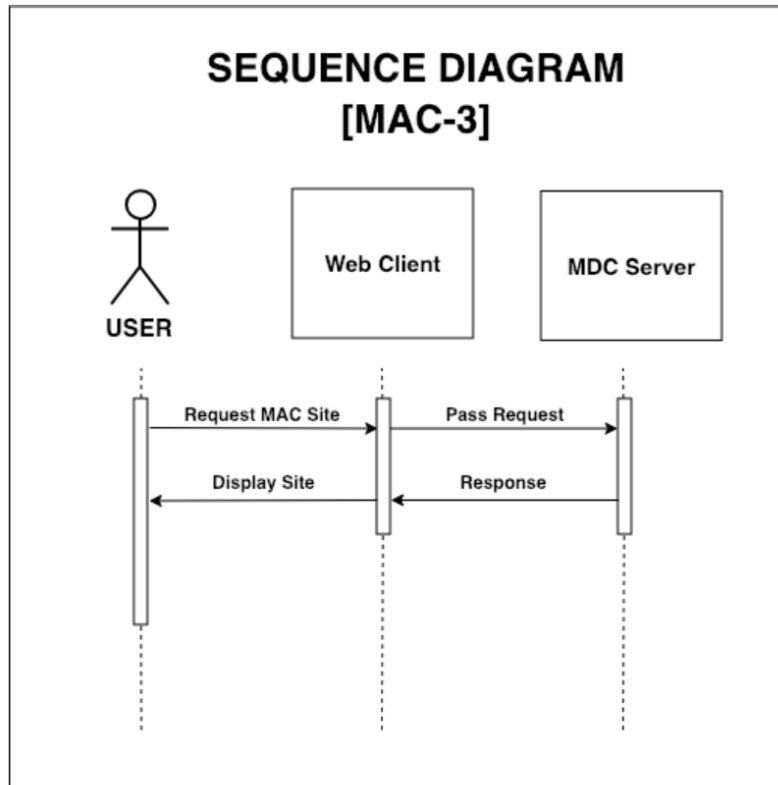
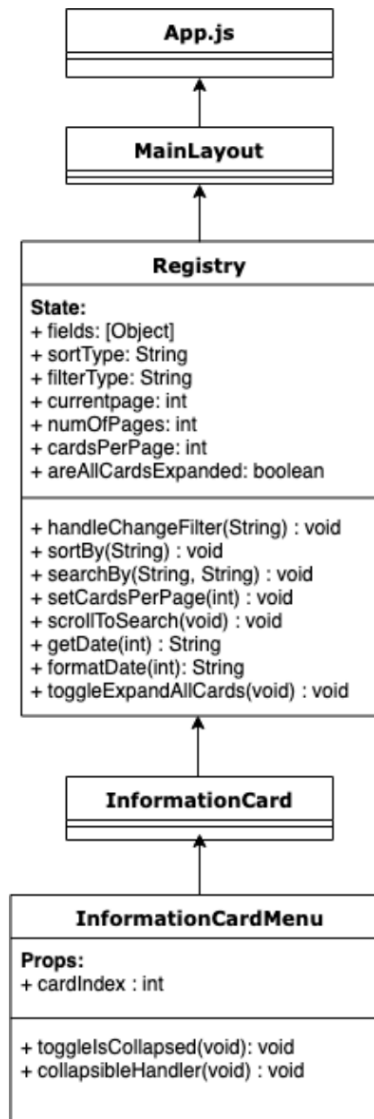
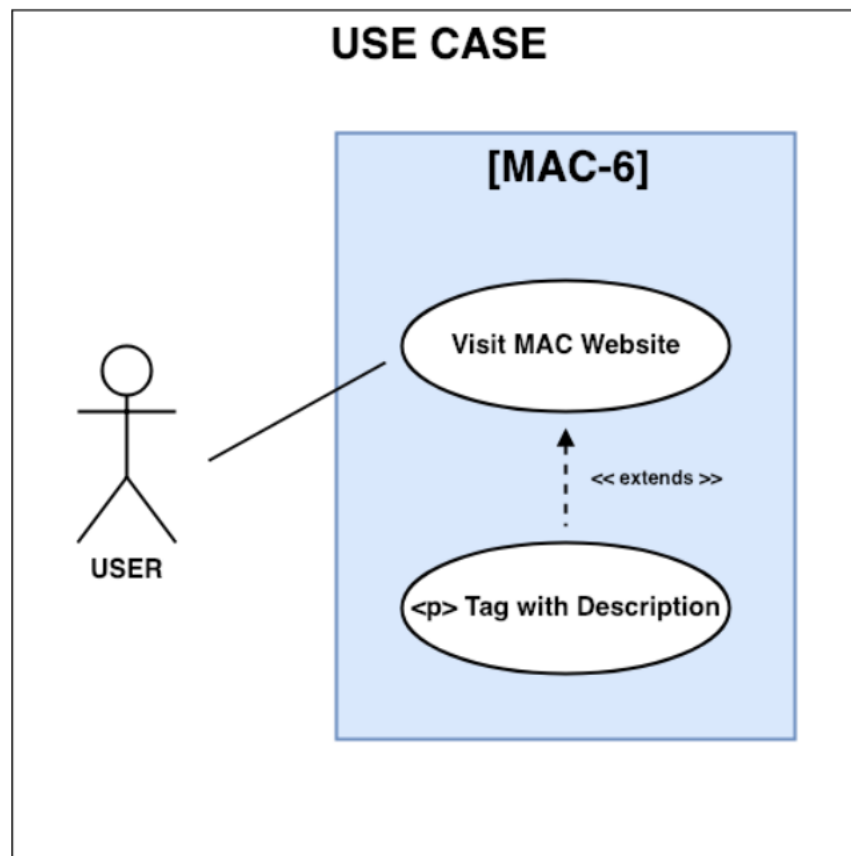
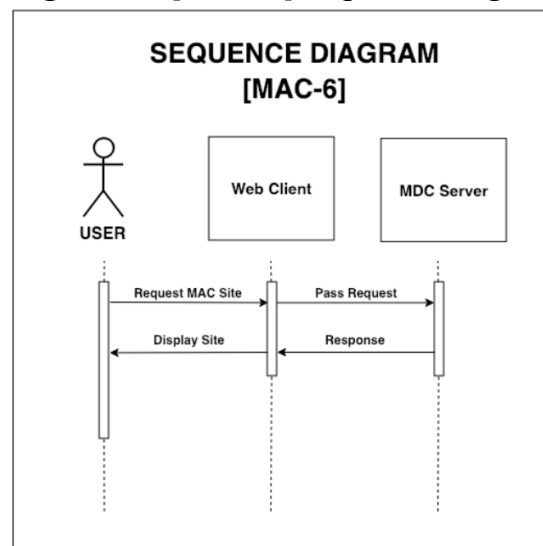
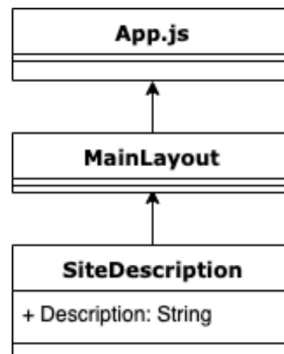


Figure A-6 [MAC-3] Class Diagram



**Figure A-7 [MAC-6] Use Case Diagram****Figure A-8 [MAC-6] Sequence Diagram**

**Figure A-9 [MAC-6] Class Diagram**



**Figure A-10 [MAC-7] Use Case Diagram**

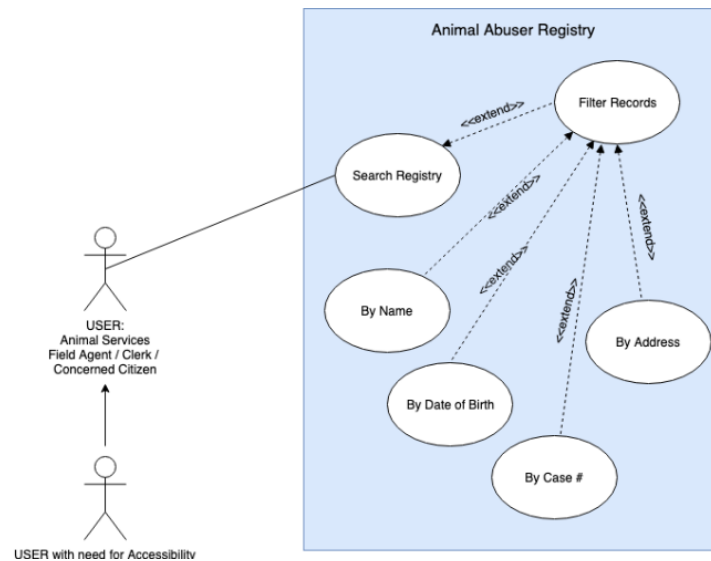


Figure A-11 [MAC-7] Sequence Diagram

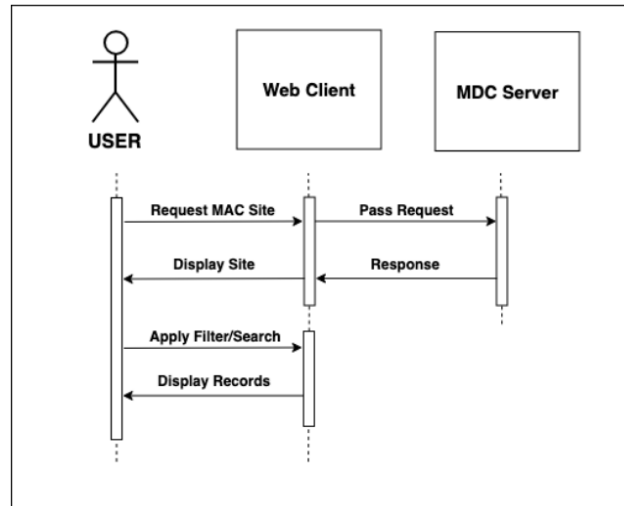
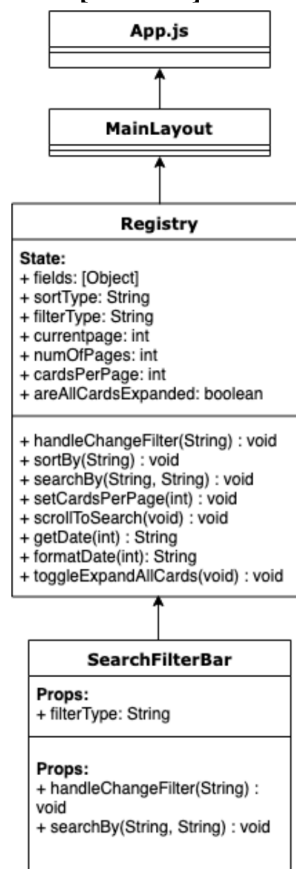
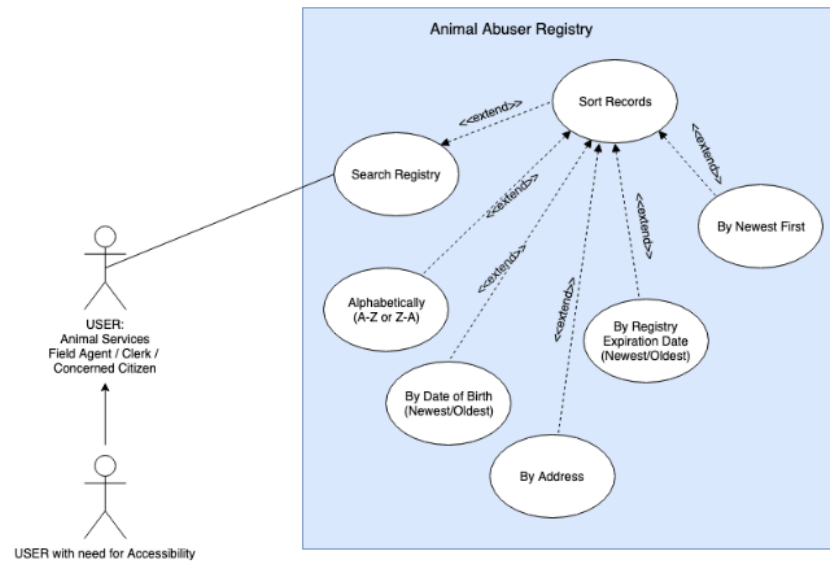


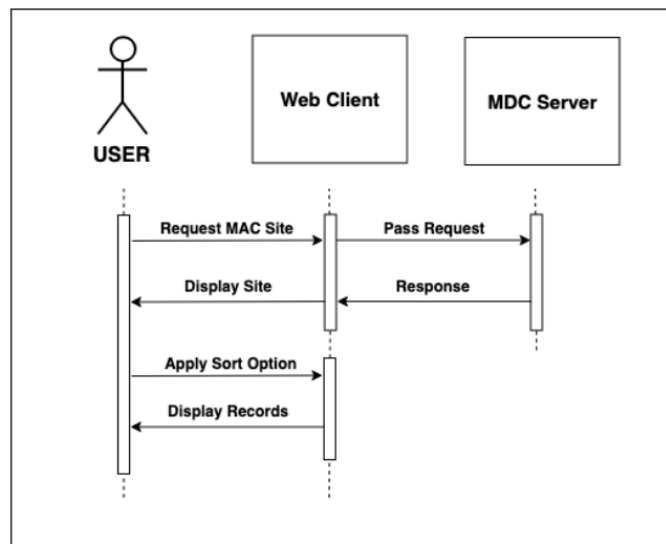
Figure A-12 [MAC-7] Class Diagram



**Figure A-13 [MAC-8] Use Case Diagram**



**Figure A-14 [MAC-8] Sequence Diagram**



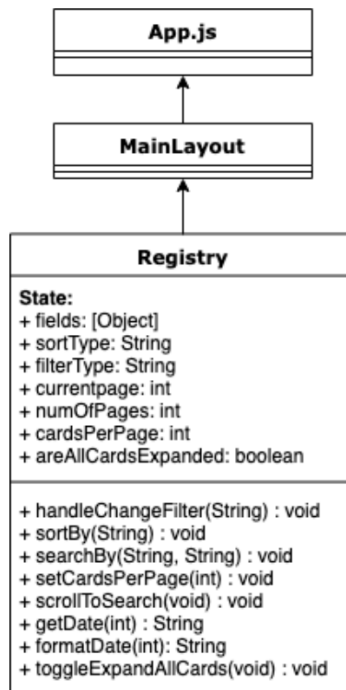
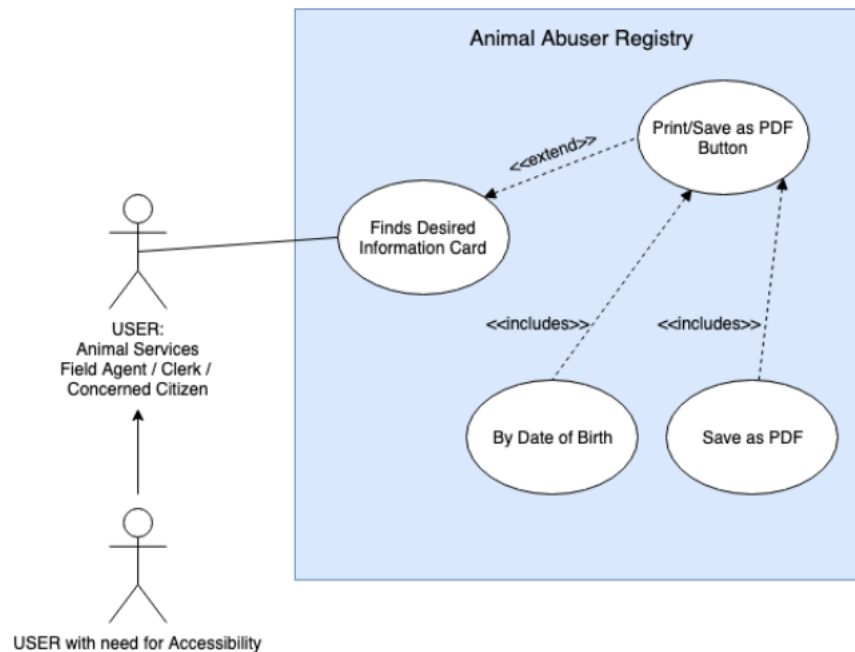
**Figure A-15 [MAC-8] Class Diagram****Figure A-16 [MAC-11] Use Case Diagram**

Figure A-17 [MAC-11] Sequence Diagram

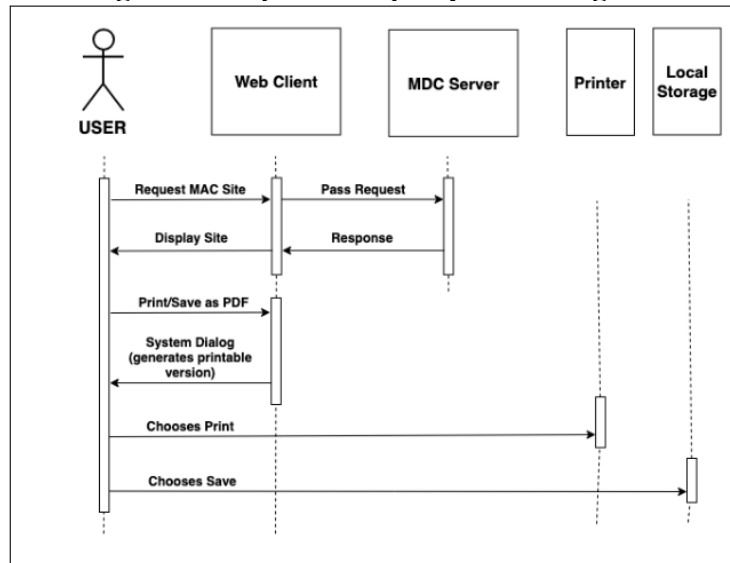
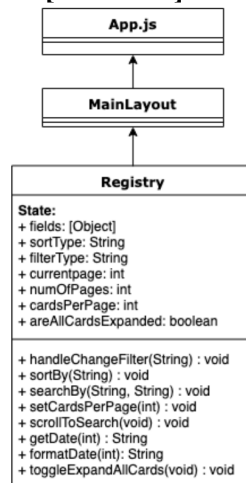
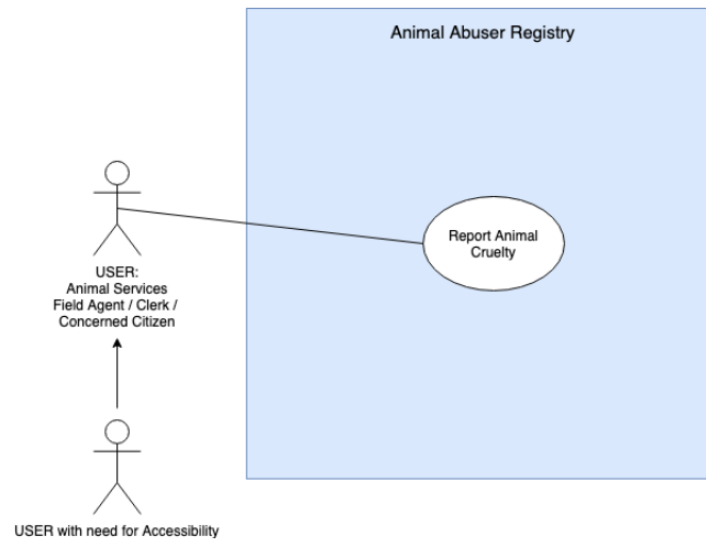


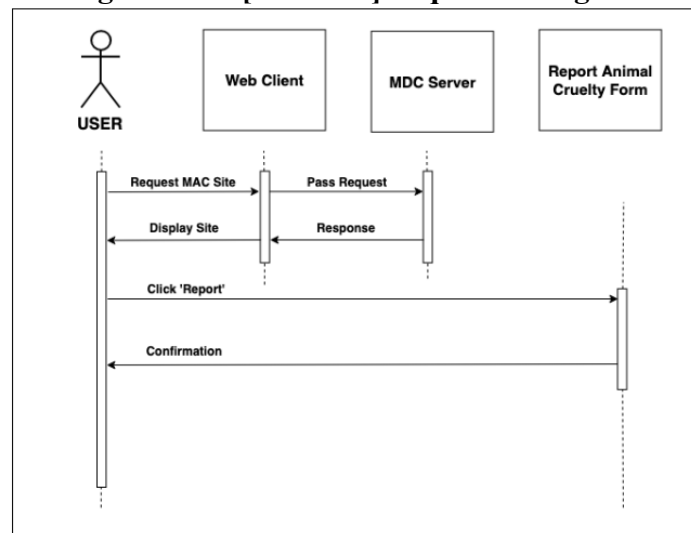
Figure A-18 [MAC-11] Class Diagram



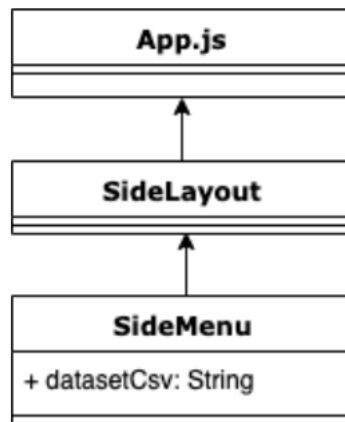
**Figure A-19 [MAC-13] Use Case Diagram**



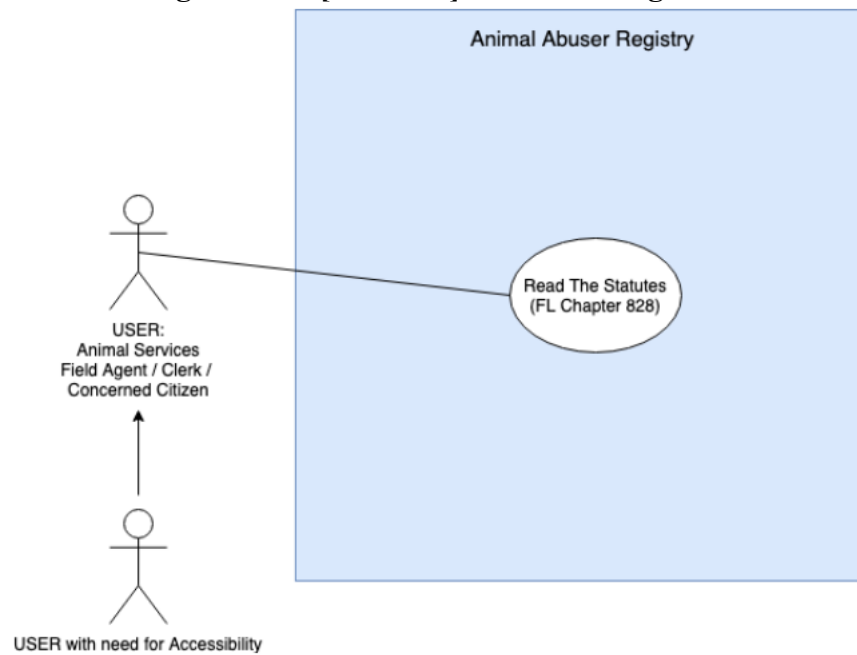
**Figure A-20 [MAC-13] Sequence Diagram**



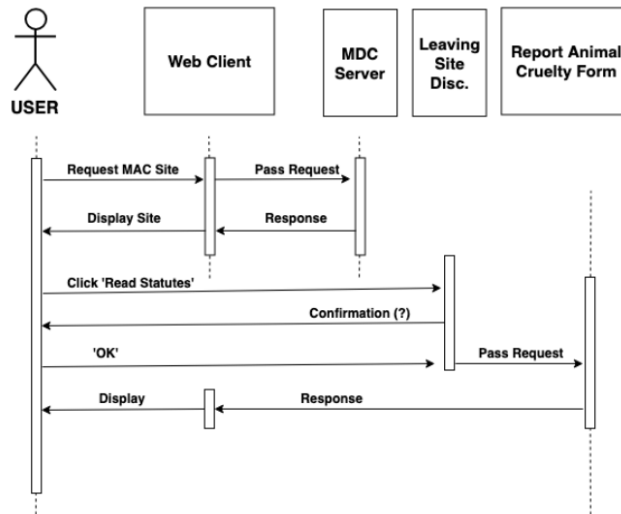
**Figure A-21 [MAC-13] Class Diagram**



**Figure A-22 [MAC-16] Use Case Diagram**



**Figure A-23 [MAC-16] Sequence Diagram**



**Figure A-24 [MAC-16] Class Diagram**

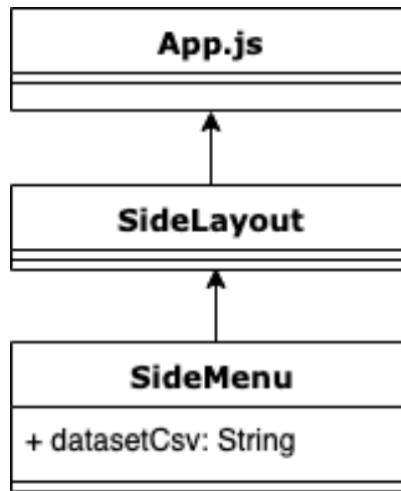


Figure A-25 [MAC-25] Use Case Diagram

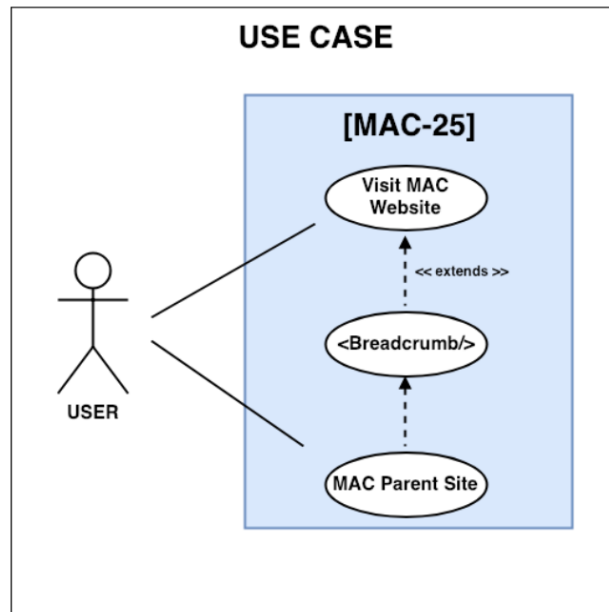
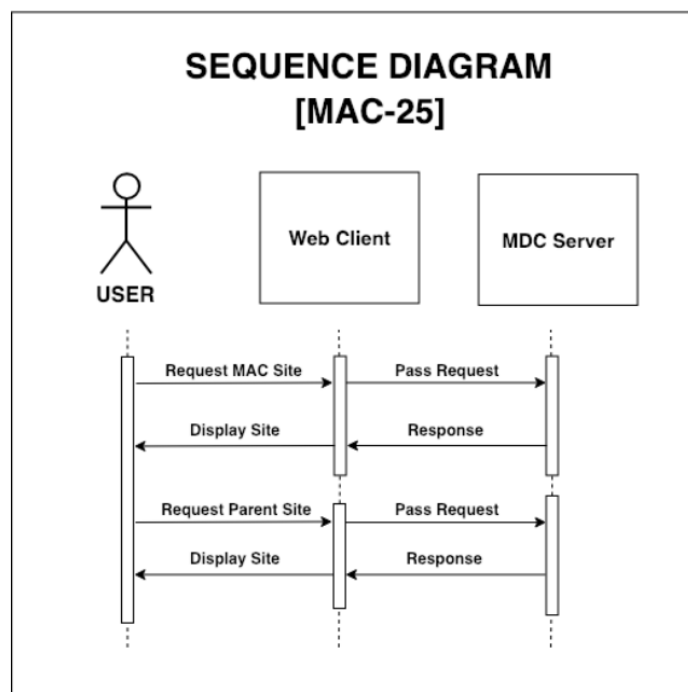
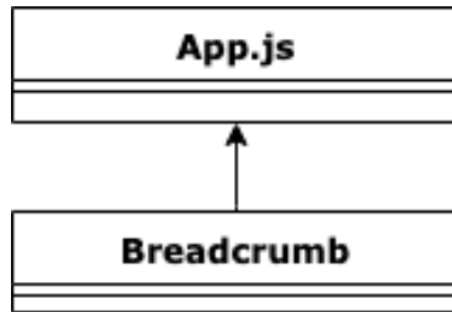


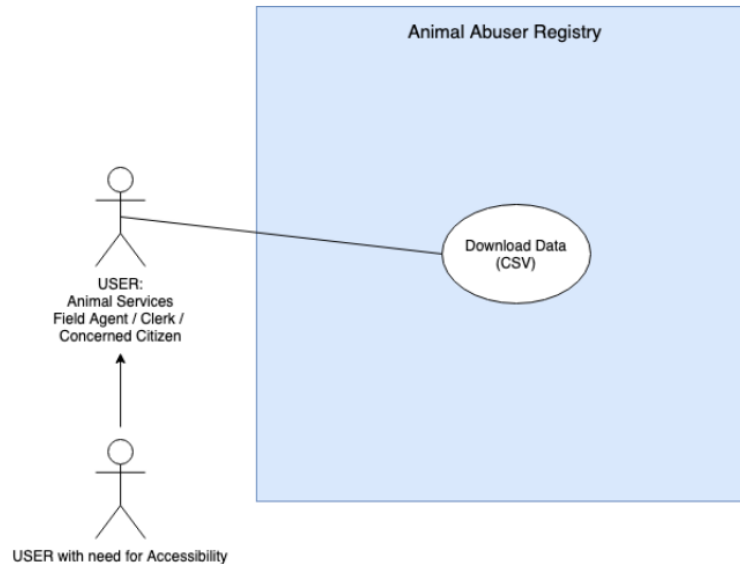
Figure A-26 [MAC-25] Sequence Diagram



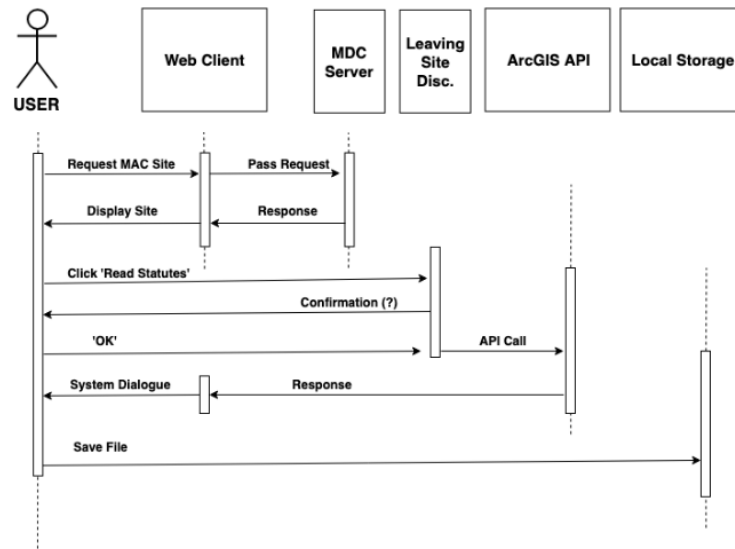
**Figure A-27 [MAC-25] Class Diagram**



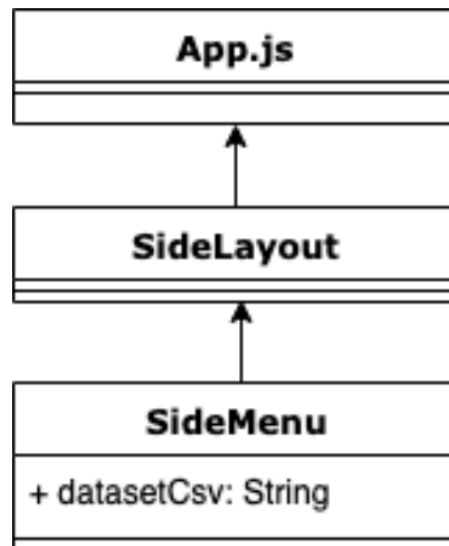
**Figure A-28 [MAC-26] Use Case Diagram**



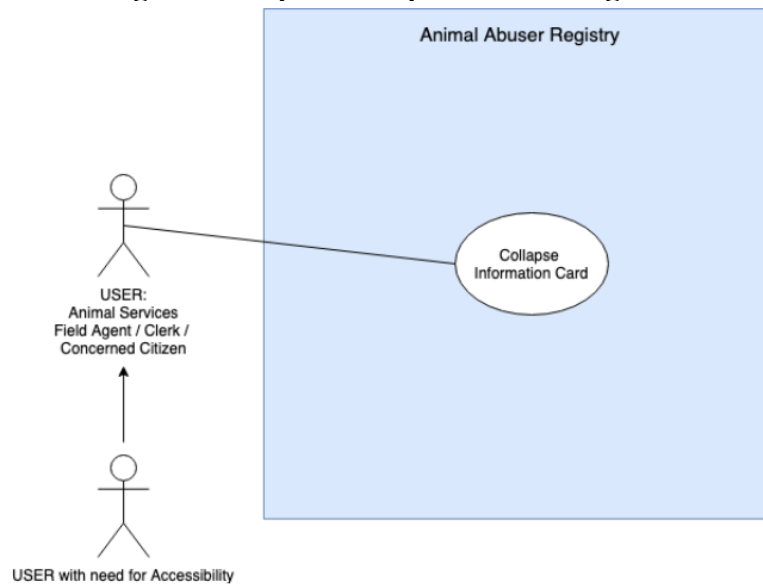
**Figure A-29 [MAC-26] Sequence Diagram**



**Figure A-30 [MAC-26] Class Diagram**



**Figure A-31 [MAC-39] Use Case Diagram**



**Figure A-32 [MAC-39] Sequence Diagram**

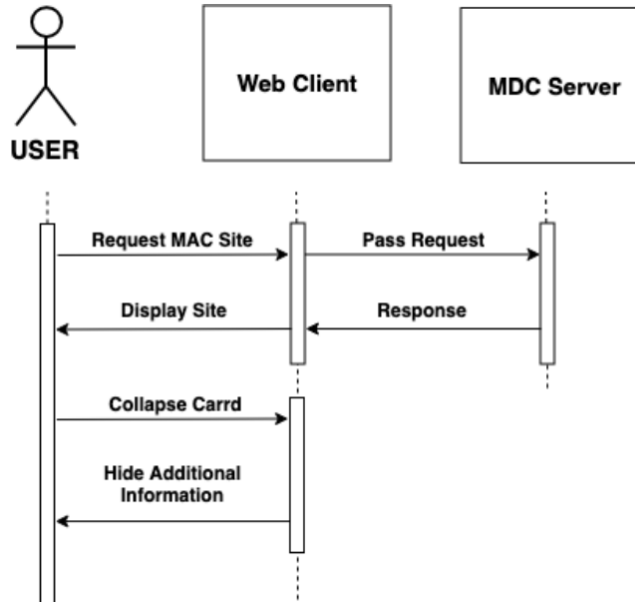
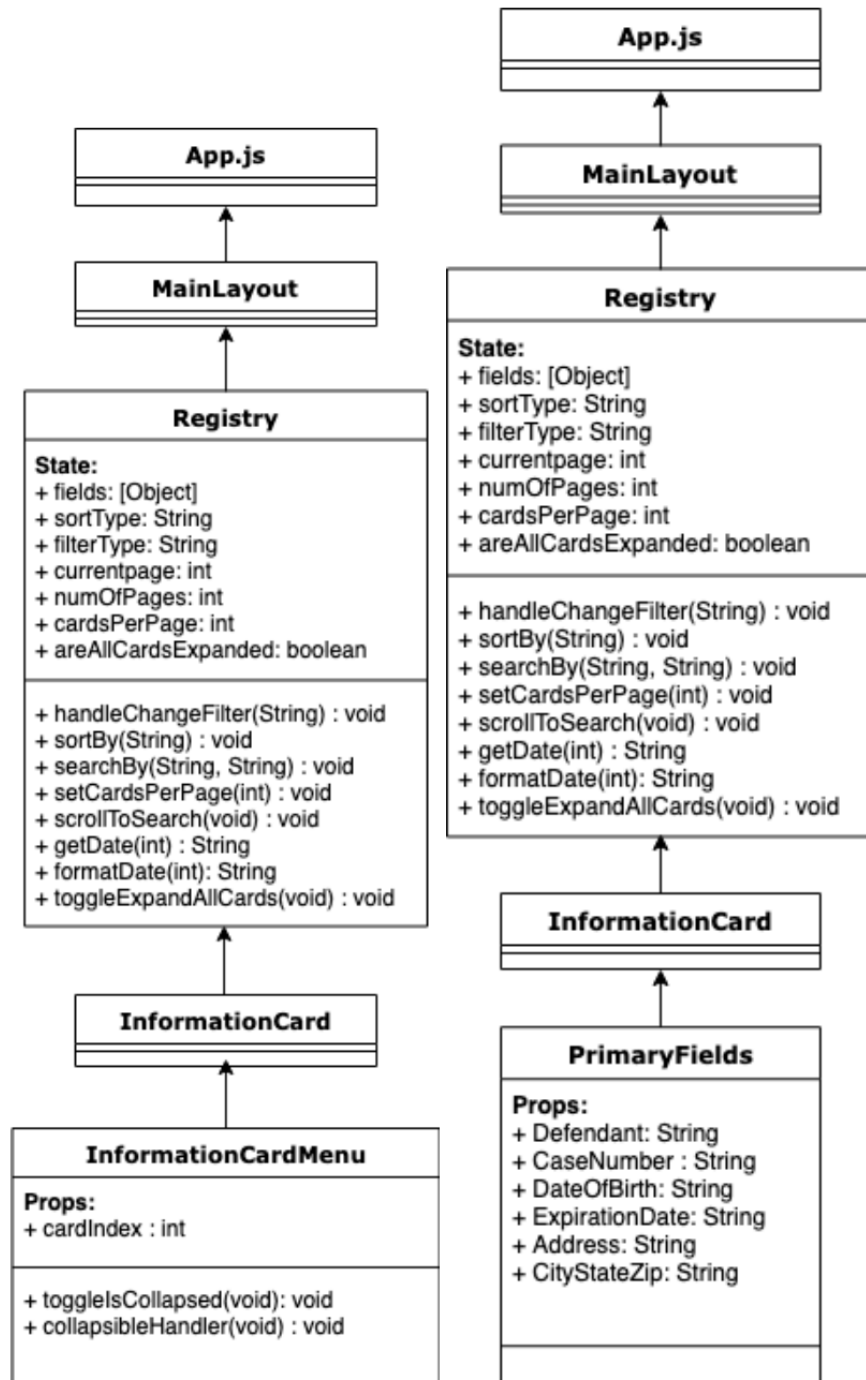
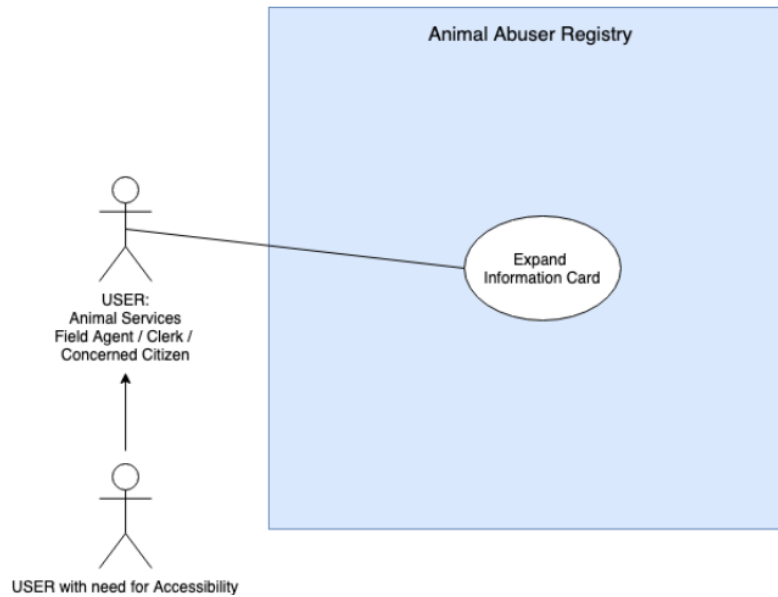


Figure A-33 [MAC-39] Class Diagram



**Figure A-34 [MAC-40] Use Case Diagram**



**Figure A-35 [MAC-40] Sequence Diagram**

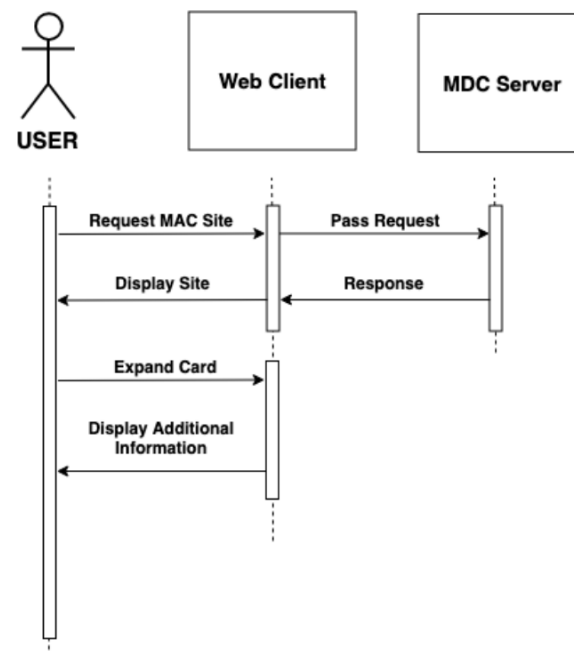


Figure A-36 [MAC-40] Class Diagram

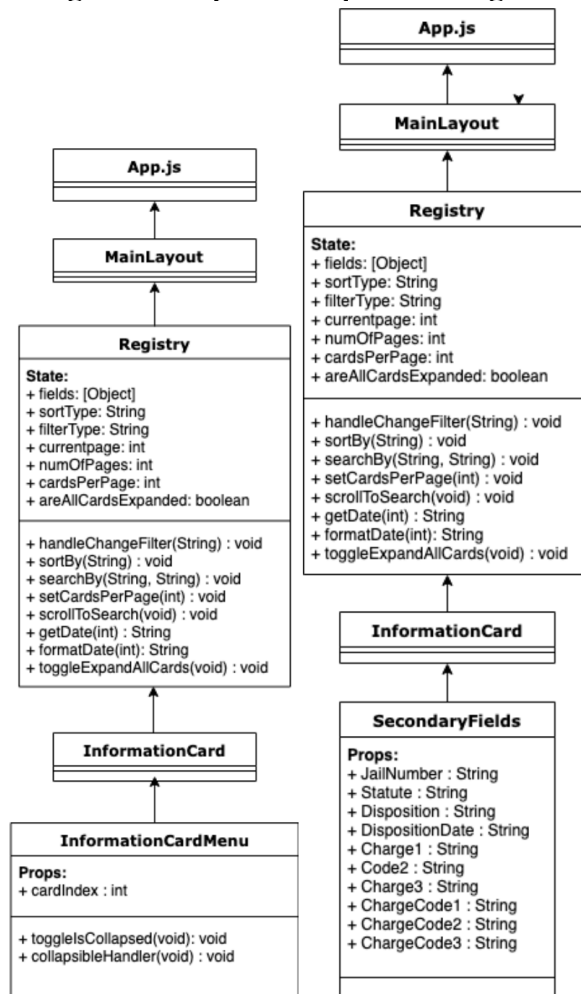


Figure A-37 [MAC-42] Use Case Diagram

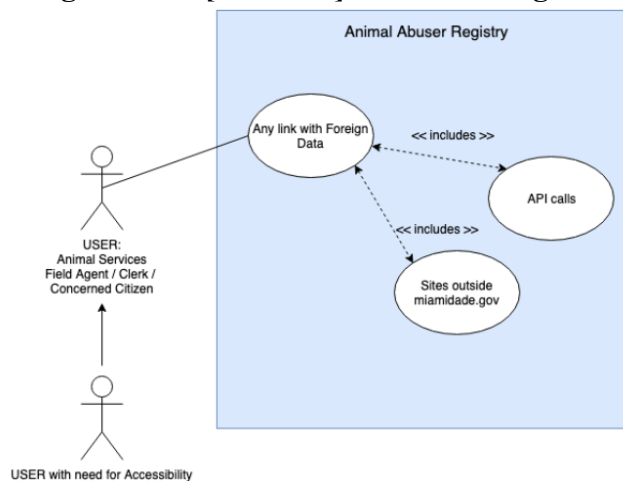


Figure A-38 [MAC-42] Sequence Diagram

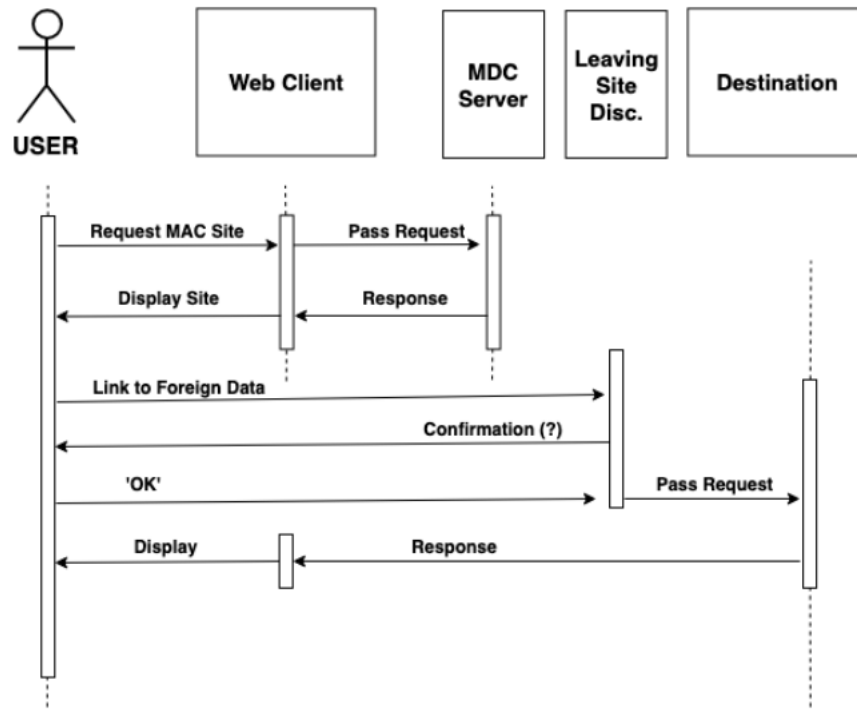
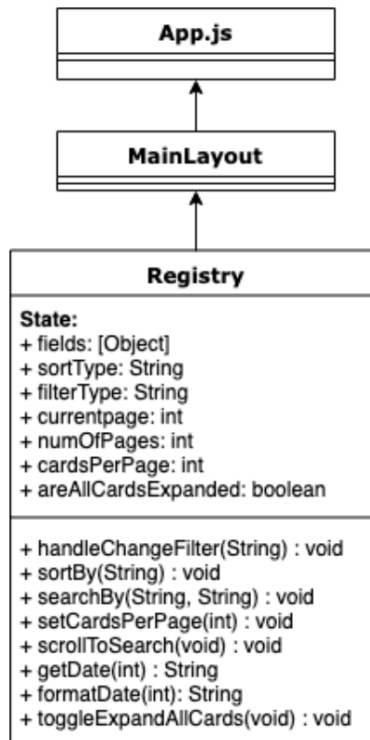


Figure A-39 [MAC-42] Class Diagram



**Figure A-40 [MAC-45] and [MAC-46] Use Case Diagram**

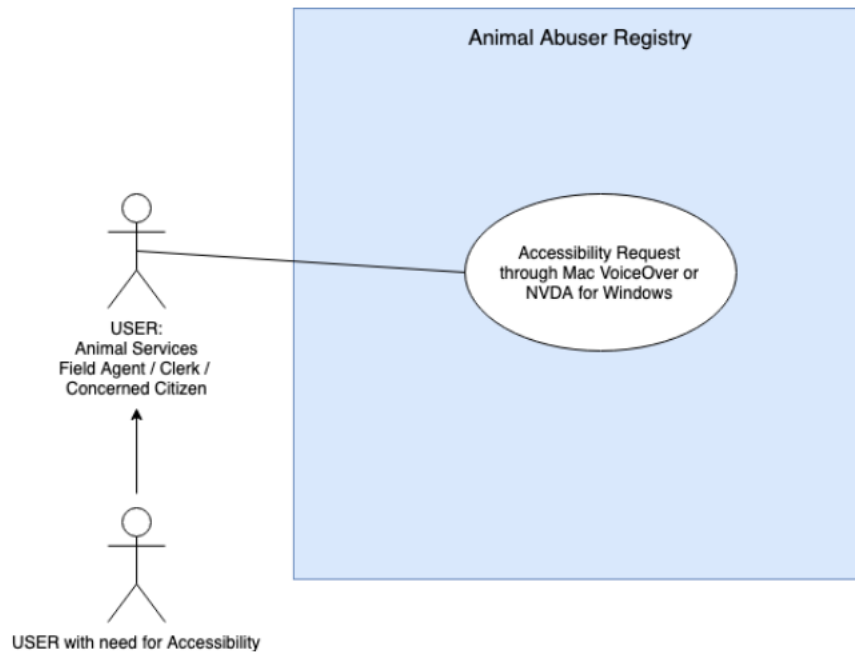
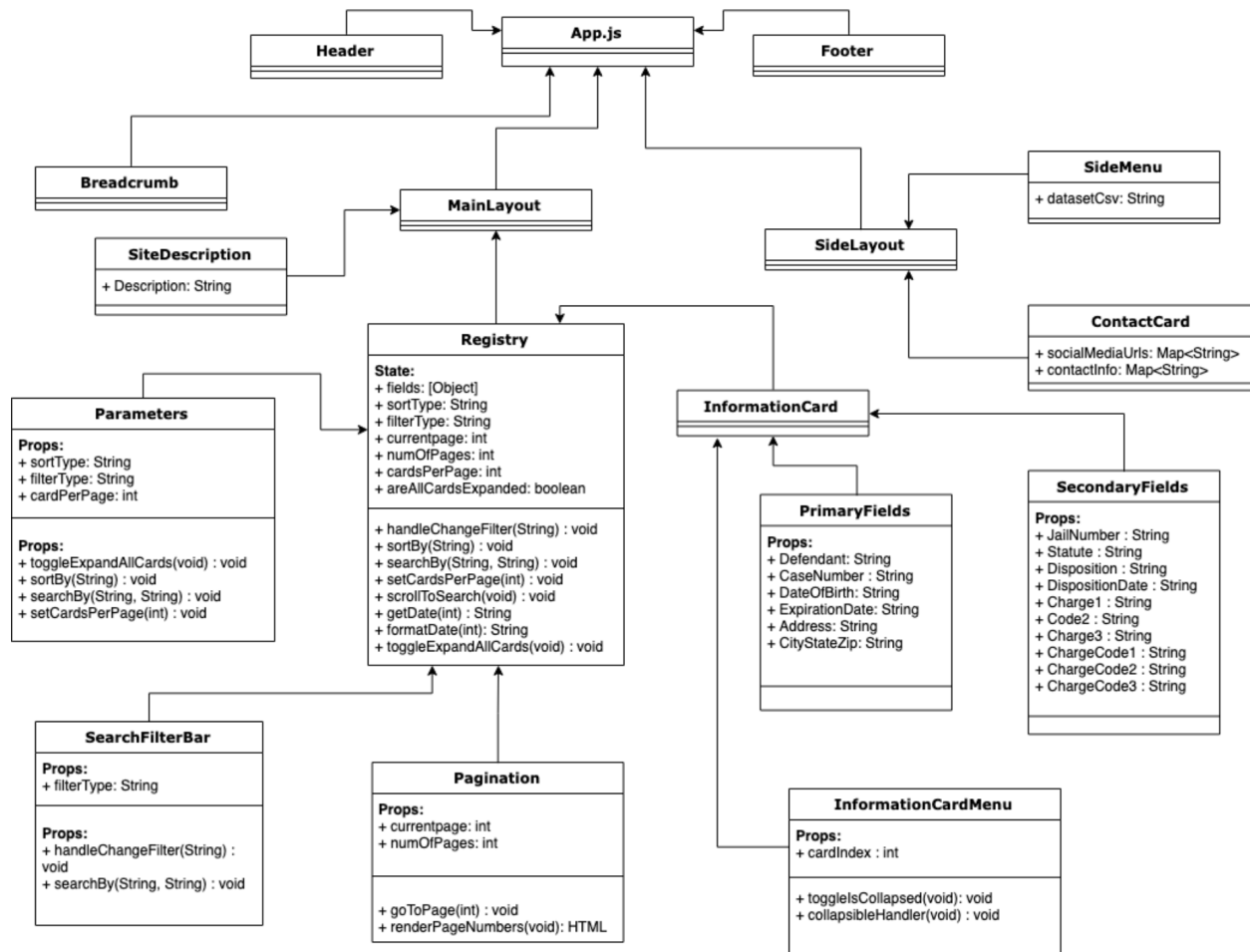
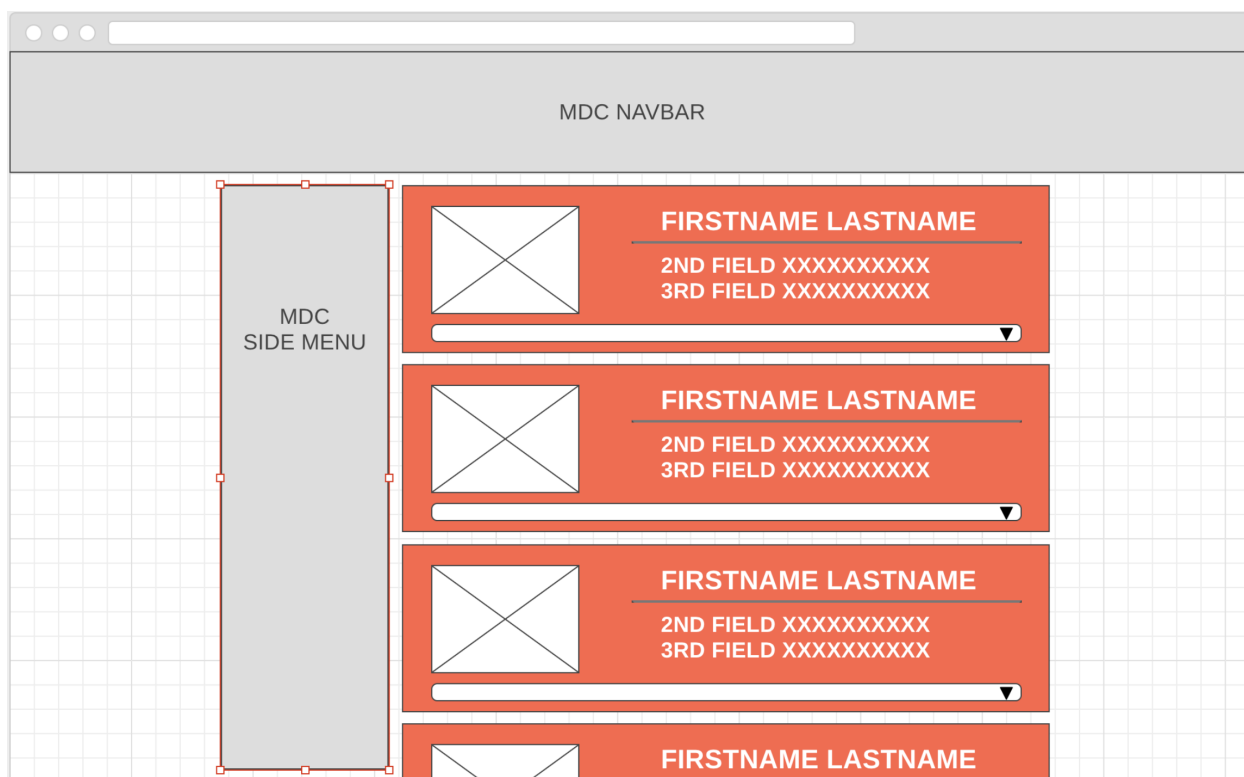


Figure A-41 Complete Class Diagram



## Appendix B - Sprint Review Reports

**Figure B-1 Wireframe**



**Figure B-2 Information Card (Collapsed)**

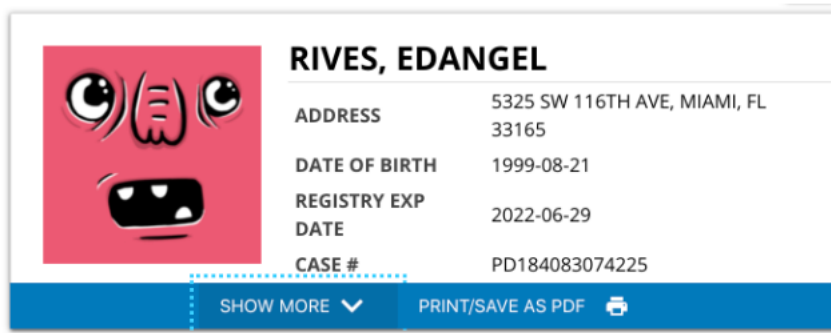
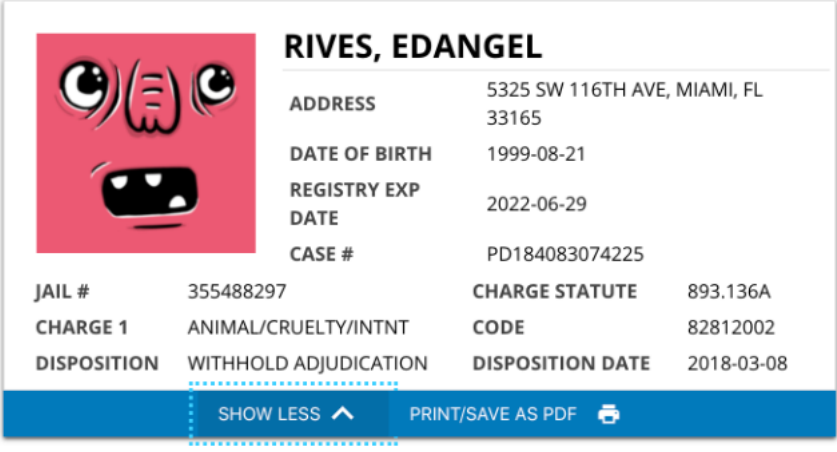


Figure B-3 Information Card (Expanded)



**RIVES, EDANGEL**

**ADDRESS** 5325 SW 116TH AVE, MIAMI, FL 33165

**DATE OF BIRTH** 1999-08-21

**REGISTRY EXP DATE** 2022-06-29

**CASE #** PD184083074225

**JAIL #** 355488297

**CHARGE 1** ANIMAL/CRUELTY/INTNT

**DISPOSITION** WITHHOLD ADJUDICATION

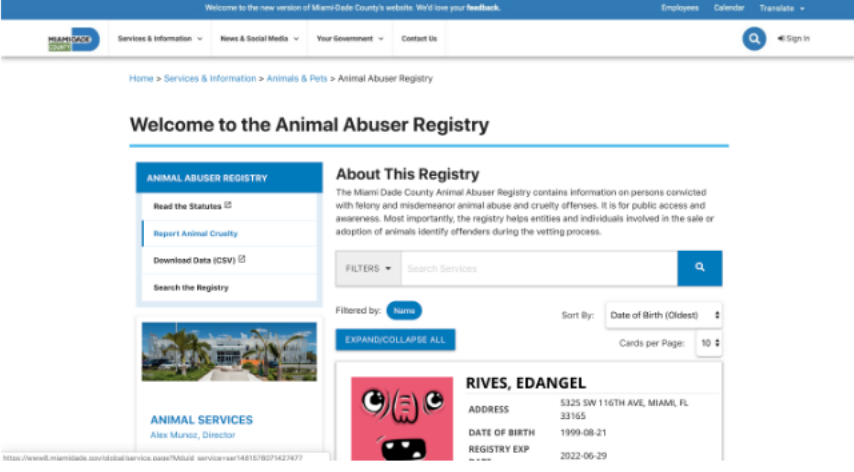
**CHARGE STATUTE** 893.136A

**CODE** 82812002

**DISPOSITION DATE** 2018-03-08

[SHOW LESS](#) [PRINT/SAVE AS PDF](#)

Figure B-4 Site Description Location



Welcome to the new version of Miami-Dade County's website. We'd love your feedback.

Services & Information | News & Social Media | Your Government | Contact Us

Home > Services & Information > Animals & Pets > Animal Abuser Registry

### Welcome to the Animal Abuser Registry

**ANIMAL ABUSER REGISTRY**

- [Read the Statutes](#)
- [Report Animal Cruelty](#)
- [Download Data \(CSV\)](#)
- [Search the Registry](#)

**ANIMAL SERVICES**  
Alex Munoz, Director

**About This Registry**  
The Miami-Dade County Animal Abuser Registry contains information on persons convicted with felony and misdemeanor animal abuse and cruelty offenses. It is for public access and awareness. Most importantly, the registry helps entities and individuals involved in the sale or adoption of animals identify offenders during the vetting process.

**FILTERS** Search Services

Filtered by: **None** Sort By: **Date of Birth (Oldest)** Cards per Page: **10**

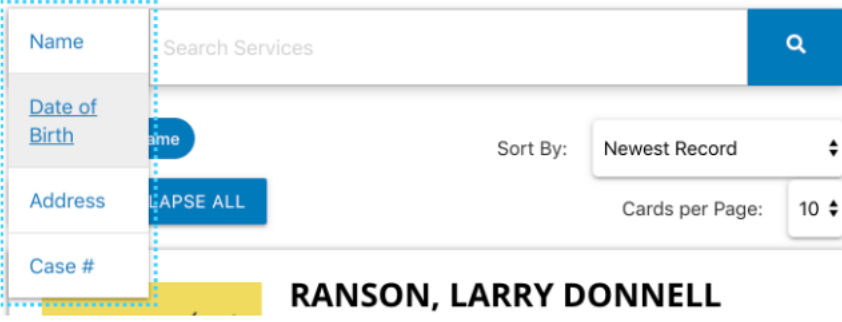
**RIVES, EDANGEL**

**ADDRESS** 5325 SW 116TH AVE, MIAMI, FL 33165

**DATE OF BIRTH** 1999-08-21

**REGISTRY EXP** 2022-06-29

Figure B-5 Filter/Search Bar



**Name** Search Services

**Date of Birth** **None** Sort By: **Newest Record** Cards per Page: **10**

**Address** **EXPAND/COLLAPSE ALL**

**Case #**

**RANSON, LARRY DONNELL**

Figure B-6 Filter By Name

FILTERS ▾ taylor 

Filtered by: **Name** Sort By: **Newest Record** 

**EXPAND/COLLAPSE ALL** Cards per Page: **10** 



**TAYLOR, MARTY LEWIS**

|                      |                                          |
|----------------------|------------------------------------------|
| ADDRESS              | 1105 NW 151ST ST, MIAMI, FL<br>331696109 |
| DATE OF BIRTH        | 1963-07-17                               |
| REGISTRY EXP<br>DATE | 2024-11-29                               |
| CASE #               | PD194141597612                           |

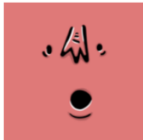
**SHOW MORE**  **PRINT/SAVE AS PDF** 

Figure B-7 Filter By Date of Birth

FILTERS ▾ 1969 

Filtered by: **DOB** Sort By: **Newest Record** 

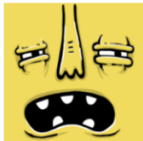
**EXPAND/COLLAPSE ALL** Cards per Page: **10** 



**FERGUSON, MICHELLE**

|                   |                     |
|-------------------|---------------------|
| ADDRESS           | HOMELESS, MIAMI, FL |
| DATE OF BIRTH     | 1969-06-12          |
| REGISTRY EXP DATE | 2024-05-26          |
| CASE #            | PD192500862742      |

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**FRANKLIN, CHANNDRAS SCOTT**

|                   |                                    |
|-------------------|------------------------------------|
| ADDRESS           | 10393 SW 180TH ST, MIAMI, FL 33157 |
| DATE OF BIRTH     | 1969-05-31                         |
| REGISTRY EXP DATE | 2023-06-14                         |
| CASE #            | PD108938613108                     |

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Figure B-8 Filter By Address

FILTERS 103

Filtered by: Address Sort By: Newest Record

EXPAND/COLLAPSE ALL Cards per Page: 10

**FRANKLIN, CHANNDRAScott**

|                   |                                    |
|-------------------|------------------------------------|
| ADDRESS           | 10393 SW 180TH ST, MIAMI, FL 33157 |
| DATE OF BIRTH     | 1969-05-31                         |
| REGISTRY EXP DATE | 2023-06-14                         |
| CASE #            | PD108938613108                     |

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**GONZALEZ, FRANK JR**

|                   |                                        |
|-------------------|----------------------------------------|
| ADDRESS           | 1030 SW 131ST AVE, MIAMI, FL 331842162 |
| DATE OF BIRTH     | 1996-01-10                             |
| REGISTRY EXP DATE | 2022-06-05                             |
| CASE #            | PD161313881183                         |

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Figure B-9 Filter By Case #

FILTERS 834972

Filtered by: Case # Sort By: Newest Record

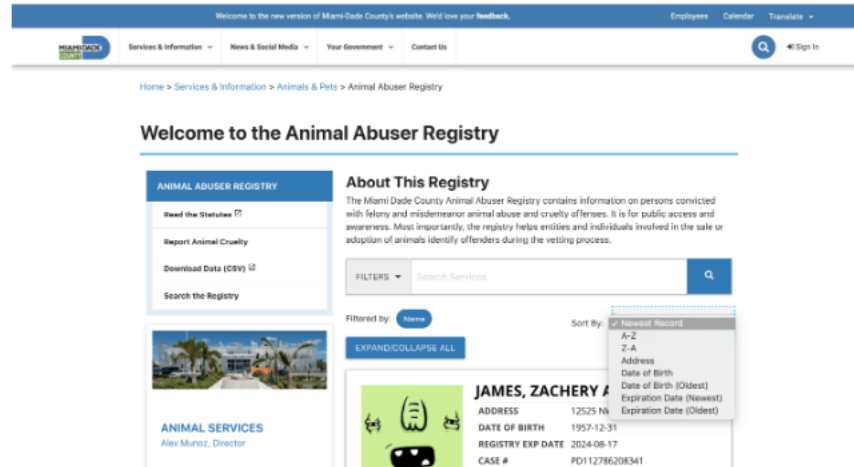
EXPAND/COLLAPSE ALL Cards per Page: 10

**ACKERSON, DEVON LEE**

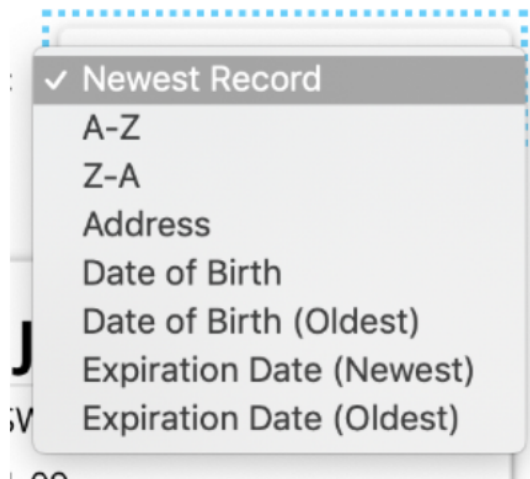
|                   |                                 |
|-------------------|---------------------------------|
| ADDRESS           | 3680 OAK AVE 6, MIAMI, FL 33133 |
| DATE OF BIRTH     | 1983-07-14                      |
| REGISTRY EXP DATE | 2023-09-14                      |
| CASE #            | PD188379834972                  |

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**Figure B-10 Location of Sorting Options**



**Figure B-11 Sorting Menu with "Newest Record" selected (default option)**



**Figure B-12 Sorting Menu with "A-Z" selected (default option)**

Filtered by: **Name** Sort By: **A-Z** Cards per Page: 10

**EXPAND/COLLAPSE ALL**

**ABREU-PADRON, JORGE**

|                   |                                   |
|-------------------|-----------------------------------|
| ADDRESS           | 15451 SW 59TH ST, MIAMI, FL 33193 |
| DATE OF BIRTH     | 1962-11-09                        |
| REGISTRY EXP DATE | 2022-07-11                        |
| CASE #            | PD118894700312                    |

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**ACKERSON, DEVON LEE**

|                   |                                 |
|-------------------|---------------------------------|
| ADDRESS           | 3680 OAK AVE 6, MIAMI, FL 33133 |
| DATE OF BIRTH     | 1983-07-14                      |
| REGISTRY EXP DATE | 2024-07-13                      |
| CASE #            | PD115901129590                  |

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**Figure B-13 Sorting Menu with "Z-A" selected (default option)**

Filtered by: **Name** Sort By: **Z-A** Cards per Page: 10

**EXPAND/COLLAPSE ALL**

**WILSON, TAURIN LENARD**

|                   |                                            |
|-------------------|--------------------------------------------|
| ADDRESS           | 10601 NW 17TH AVE 203, MIAMI, FL 331471438 |
| DATE OF BIRTH     | 1997-08-18                                 |
| REGISTRY EXP DATE | 2024-03-19                                 |
| CASE #            | PD199390865972                             |

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**WILSON, KEEVONNA CANTE**

|                   |                                           |
|-------------------|-------------------------------------------|
| ADDRESS           | 3000 NW 130TH TERR 122, SUNRISE, FL 33323 |
| DATE OF BIRTH     | 1993-02-01                                |
| REGISTRY EXP DATE | 2023-06-21                                |
| CASE #            | PD102429984204                            |

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**Figure B-14 Sorting Menu with "Date of Birth" selected (default option)**

Filtered by: **Name** Sort By: **Date of Birth** Cards per Page: 10

**EXPAND/COLLAPSE ALL**

**HANDS, GEORGINA**

|                   |                                            |
|-------------------|--------------------------------------------|
| ADDRESS           | 5475 W 27TH LN, HIALEAH GDNS, FL 330164086 |
| DATE OF BIRTH     | 1935-06-23                                 |
| REGISTRY EXP DATE | 2023-09-20                                 |
| CASE #            | PD117158524776                             |

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**NUNEZ, JULIO**

|                   |                                        |
|-------------------|----------------------------------------|
| ADDRESS           | 12811 SW 43RD DR 221A, MIAMI, FL 33175 |
| DATE OF BIRTH     | 1940-05-23                             |
| REGISTRY EXP DATE | 2023-10-16                             |
| CASE #            | PD119854605159                         |

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**Figure B-15 Sorting Menu with "Expiration Date" selected (default option)**

Filtered by: **Name** Sort By: **Expiration Date (Newest)** Cards per Page: 10

**EXPAND/COLLAPSE ALL**

**MASCARENO-TROCHE, YUDIESKY**

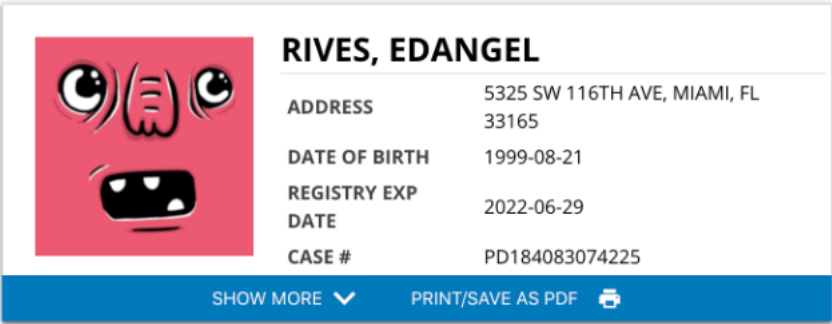
|                   |                                                |
|-------------------|------------------------------------------------|
| ADDRESS           | 4800 NW 184TH TER, MIAMI GARDENS, FL 330552937 |
| DATE OF BIRTH     | 1977-01-23                                     |
| REGISTRY EXP DATE | 2022-03-02                                     |
| CASE #            | PD177399075667                                 |

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**HERNANDEZ, MANUEL**

|                   |                                    |
|-------------------|------------------------------------|
| ADDRESS           | 12836 SW 17TH TER, MIAMI, FL 33175 |
| DATE OF BIRTH     | 1967-12-14                         |
| REGISTRY EXP DATE | 2022-03-24                         |
| CASE #            | PD179791569077                     |

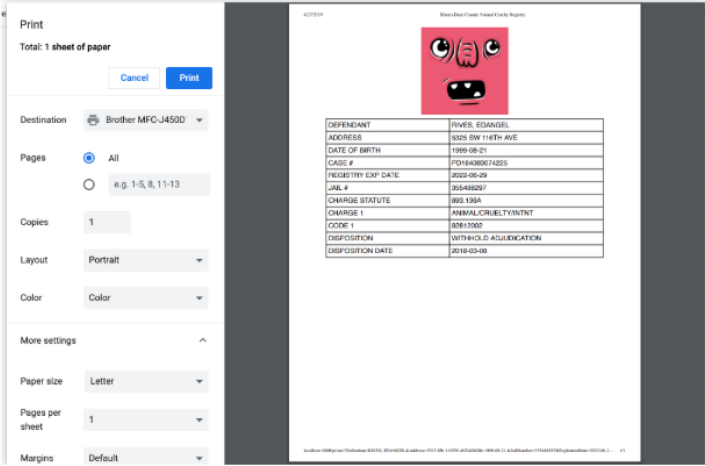
[SHOW MORE](#) [PRINT/SAVE AS PDF](#)

**Figure B-16 Print/Save as PDF Button in Information Card Menu**

The information card for RIVES, EDANGEL features a pink square icon with a cartoon animal face on the left. To the right, the name "RIVES, EDANGEL" is displayed in bold. Below the name, a table lists personal and case details. At the bottom, a blue bar contains the "SHOW MORE" link and the "PRINT/SAVE AS PDF" button with a printer icon.

|                       |                                    |
|-----------------------|------------------------------------|
| <b>RIVES, EDANGEL</b> |                                    |
| ADDRESS               | 5325 SW 116TH AVE, MIAMI, FL 33165 |
| DATE OF BIRTH         | 1999-08-21                         |
| REGISTRY EXP DATE     | 2022-06-29                         |
| CASE #                | PD184083074225                     |

SHOW MORE ▾ PRINT/SAVE AS PDF 

**Figure B-17 System Dialog with Preview**

The print dialog box is split into two panels. The left panel contains settings for printing, including destination (Brother MFC-J450D), pages (All), copies (1), layout (Portrait), color (Color), and paper size (Letter). The right panel shows a preview of the document to be printed, which includes the pink animal icon and a table of case details.

Print  
Total: 1 sheet of paper

Destination:  Brother MFC-J450D

Pages: ☒ All ☐ e.g. 1-5, 8, 11-13

Copies: 1

Layout: Portrait

Color: Color

More settings ▸

Paper size: Letter

Pages per sheet: 1

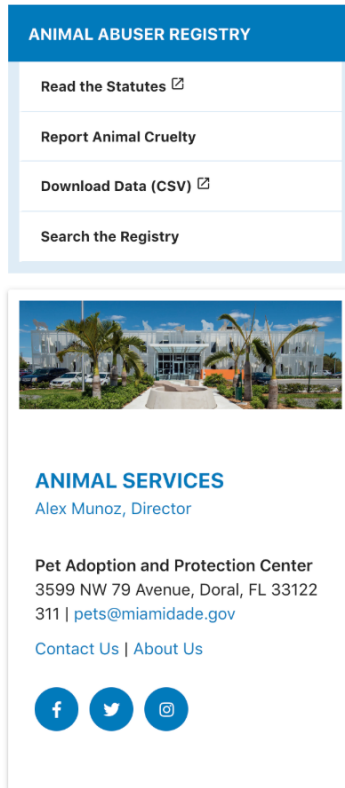
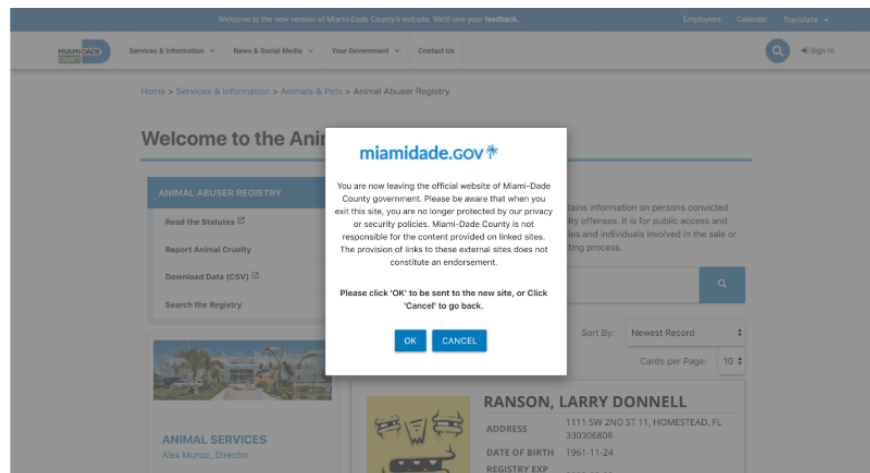
Margins: Default

Preview of the document to be printed:

427504 Miami-Dade County Animal Cruelty Registry

|                   |                       |
|-------------------|-----------------------|
| DEPENDANT         | RIVES, EDANGEL        |
| ADDRESS           | 5325 SW 116TH AVE     |
| DATE OF BIRTH     | 1999-08-21            |
| CASE #            | PD184083074225        |
| REGISTRY EXP DATE | 2022-06-29            |
| JAIL #            | 354488257             |
| CHARGE STATUTE    | §62.1504              |
| CHARGE 1          | ANIMAL CRUELTY/INTENT |
| CODE 1            | §18-1302              |
| DISPOSITION       | WITHHELD ADJUDICATION |
| DISPOSITION DATE  | 2019-03-08            |

For more information, visit [www.miamidade.gov/animal-cruelty-registry](#) or call 311.

**Figure B-18 Side Menu with "Report Animal Cruelty" Link (second link)****Figure B-19 Side Menu with "Report Animal Cruelty" Link (second link)**

## Appendix C - Sprint Review Reports

### Sprint 1

**Meeting info:**

**Team:** Pablo Mueller; Eddy Mogollon

**Project Owners:** Jay Alvarez; Daniel Stanisky; Elio Perez; Javier Ruiz

**Date:** 01 Feb 2019

**Start time:** 01:15 PM

**End time:** 02:00 PM

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- MAC-1 - Define Color Scheme
- MAC-2 - Fill Fields With Mock Data
- MAC-3 - Card Component Prototype
- MAC-4 - Display Several Cards Per Page
- MAC-6 - Website Description
- MAC-25 - Breadcrumbs
- MAC-29 - Mock Footer
- MAC-30 - Mock Header
- MAC-31 - Create Layout Including Sidemenu and Card component

### Sprint 2

**Meeting info:****Team:** Pablo Mueller; Eddy Mogollon**Project Owners:** Jay Alvarez; Daniel Stanisky; Elio Perez**Date:** 15 Feb 2019**Start time:** 01:15 PM**End time:** 02:00 PM

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- MAC-8 - Sort by Ascending/Descending Order
- MAC-28 - Wireframe
- MAC-34 - Make Sidemenu Responsive
- MAC-35 - Make Card component responsive
- MAC-36 - Search Bar Research & Design
- MAC-37 - Style Card Header
- MAC-38 - Style Card Body
- MAC-39 - Collapse Card Body
- MAC-40 - Expand Card Body

**Sprint 3****Meeting info:****Team:** Pablo Mueller; Eddy Mogollon**Project Owners:** Jay Alvarez; Daniel Stanisky; Elio Perez**Date:** 1 Mar 2019**Start time:** 03:00 PM**End time:** 04:00 PM

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- MAC-11 - Print Button
- MAC-18 - Download Button
- MAC-17 - Registry FAQ
- MAC-19 - Responsive Site
- MAC-7 - Filtering Records
- MAC-15 - Filter bar (design): Top or Side
- MAC-26 - Download As CSV

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Spring Planning meeting.

- MAC-32 - WCAG 2.1 Conformity

We realized that this user story would take longer than expected and could not just be implemented in one sprint. This requires a lot of research because the expectation is that the website is fully accessible, and that requires a lot of research, which was done this sprint. This story will go to the next sprint and it's expected to be fully implemented.

### **Sprint 4**

**Meeting info:**

**Team:** Pablo Mueller; Eddy Mogollon

**Project Owners:** Jay Alvarez; Daniel Stanisky; Elio Perez

**Date:** 15 Mar 2019

**Start time:** 01:15 PM

**End time:** 02:00 PM

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- MAC-5 - Pagination
- MAC-9 - Language: Spanish
- MAC-14 - Resources
- MAC-16 - Laws & Ordinances (Florida & MDC) (Link Management)
- MAC-41 - Search by Case #
- MAC-43 - Search by DOB (Newest/Oldest)
- MAC-44 - Sort by Registry Exp Date (Newest/Oldest)
- MAC-45 - Expand/Collapse All DONE

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Spring Planning meeting.

- MAC-32 - WCAG 2.1 Conformity
- MAC-42 - Leaving Site Disclaimer

### **Sprint 5**

**Meeting info:****Team:** Pablo Mueller; Eddy Mogollon**Project Owners:** Jay Alvarez; Daniel Stanisky; Elio Perez**Date:** 29 Mar 2019**Start time:** 01:15 PM**End time:** 02:00 PM

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- MAC-50 - [ACCESSIBILITY] Refactor all in-line CSS
- MAC-46 - [ACCESSIBILITY] ARIA-LABELS
- MAC-47 - [ACCESSIBILITY] ARIA-LIVE

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Spring Planning meeting.

- MAC-48 - [ACCESSIBILITY] READER: NVDA
- MAC-49 - [ACCESSIBILITY] READER: Mac Voiceover

## **Sprint 6**

**Meeting info:****Team:** Pablo Mueller; Eddy Mogollon**Project Owners:** Jay Alvarez; Daniel Stanisky; Elio Perez**Date:** 12 Apr 2019**Start time:** 01:15 PM**End time:** 02:00 PM

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners:

- MAC-48 - [ACCESSIBILITY] READER: NVDA
- MAC-49 - [ACCESSIBILITY] READER: Mac Voiceover

## **Appendix D - User Manuals, Installation/Maintenance Document, Shortcomings/Wishlist Document and other documents**

## ***User Manual***

With the current version of the application, all users have the same functionality.

The current version of the application contains the same functionality for all users. The users of this application may be Concerned Citizens, Clerks (from Animal Shelters, for example), Field Agents, and Users with disabilities.

- **View defendants:**
  - When entering the website, you can scroll down and you will see a list of cards with the defendants' information. The cards display the information in an intuitive manner and include the full name, address, date of birth, the offense(s), date of conviction, amongst other identifiers.
- **Searching for a defendant:**
  - There's a search bar with a Filters button to the left. If you click on Filters, you'll see the options: Name, Date of Birth, Address, and Case #. Select one option, and now if you write on the search bar and submit, you will get a result of the defendants matching the criteria of your search.
- **Sorting by the defendants**
  - There's a Sort By dropdown below the search bar. If you click on the dropdown, you'll see the options: Newest Record, Alphabet Order (A-Z or Z-A), Address, Date of Birth (Newest/Oldest), Expiration Date (Oldest/Newest). Select one of the options, and the defendants will be sorted by the sorting criteria.
- **Expand/collapse cards**
  - At the bottom of each card, there's an Expand/Collapse button that when clicked, displays additional information about the defendant. There's also the Expand/Collapse button below the search bar that will expand or collapse all the cards on the page.
- **Change pagination**
  - Below the Search bar, there's a *Cards per Page* dropdown that will allow showing a specific amount of cards per page. The user can as well scroll all the bottom to change the current page.
- **Print/save as PDF**

- At the bottom of each card, there's a Print/Save as PDF button that when clicked, redirects to another page and allows the user to download the defendant's information in a printable format.
- **Navigate the page using a screen reader:**
  - For users with disabilities, the page is fully navigable using a screen reader and the keyboard. You can traverse all parts of the website with ease.

## ***Installation/Maintenance Manual***

This section provides a step-by-step instruction on how to set up development environment and deployment environment.

### **Development Environment Installation:**

- **Prerequisites:**
  - **Git:** Git is used to get the repository and for source control. It can be downloaded from <https://git-scm.com/downloads>
  - **Node.js:** open-source, cross-platform JavaScript run-time environment. It can be downloaded from <https://nodejs.org/en/download/>
  - **NPM:** a package manager for the JavaScript programming language. It comes with Node.js.
  - **IDE:** For this project, Visual Studio Code was used as an integrated development environment, but any IDE should be fine for development. It can be downloaded from <https://visualstudio.microsoft.com/downloads/>
- **Executes:**
  - Check out the git repository for the project. The git repository can be cloned from the BitBucket on the JIRA Server.
  - The repository name is MAC19S. Below is the command for cloning the git repository to a local folder.
  - `git clone https://server.com/repo-name.git <local directory to clone into>`
  - The next step is to check out the specific branch assigned to you.`git fetch <assigned branch>`
  - Once the project is cloned, open it in an IDE and view the file structure.
  - Go to the mac19s folder.
    - `cd mac19s`
  - The package.json file contains all the dependencies that will need to be installed. Install all the dependencies via the following command
    - `npm install`
  - All the dependencies will be installed and located in the node\_modules folder on the root folder.
  - Once the dependencies are installed, start the application locally via the following command:

- npm start
- The project will start on localhost:3000

## ***Shortcomings/Wishlist***

### **Wishlist:**

- The information for each defendant is real, as the records come from the ArcGIS API. However, the defendants' mugshots are not currently available as there is no dedicated database to this application. In the future, the project will have an exclusive back-end to display all the defendants' data, including real mugshots.
- Although pagination works, it could be improved and more scalable as more defendants are added. For example, the page number could be related to the route of the website, such that if the user wants to directly access the page 25, the user can easily go to the route and put that number.
- Multiple filters could be added. Currently, when you select a filter, you see a chip with the name of the filter. An X button can be incorporated into the chip as a way to remove the filter, and multiple filters can be added or removed.
- Search by general information for each defendant. Currently, you can search by specific criteria, but it would be useful for the user to write anything on the search bar, and filter the data on that; it could be anything that matches the defendant's data.

### **Shortcomings:**

- Throughout the whole project, there is a lot of mock information. For example, the introduction and description of the website are mocked and we were not able to get that information.
- Redux was implemented on this project as a better way to manage the state of the application. However, there are still many components that have internal state and could use the state management that Redux offers.

## References

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- Miami-Dade-County. (2019). Open Data Jail Bookings API. [online] Available at: [https://gis-mdc.opendata.arcgis.com/datasets/db658214dccb4331bc1d82c8547d170a\\_0](https://gis-mdc.opendata.arcgis.com/datasets/db658214dccb4331bc1d82c8547d170a_0) [Accessed Mar. 2019].