

Agenda Management System (AGDA)

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Problem

- Departments within Miami-Dade County face challenges in multiple levels of their agenda management tracking system. The routing of potential agenda items sent internally through email creates
 - Bad User Experience
 - Lost of time (tracking specific versions of an item)
 - Unnecessary use of multiple applications for reminders.

Requirements

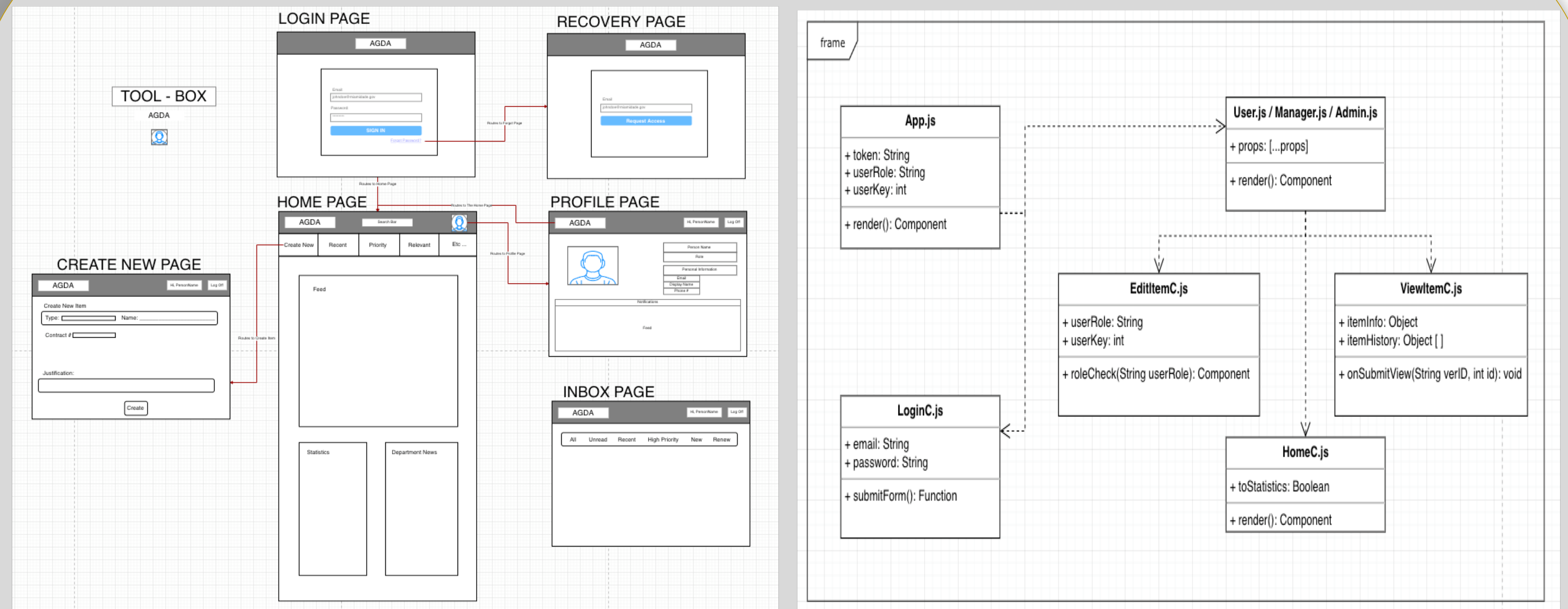
- Knowledge of matter lifecycle to better grasp an understanding of its workflow across each department
- Basic knowledge of Miami-Dade County Commission Legislative Terms
- Familiarity of full stack development to utilize tools such as React and Express

Current System

Version 1.0 System:

- Single Page Application(SPA) created with React and React-Router v4 to control user level access.
- Advance Search of Feed that allows you to quickly search and see the history of a matter.
- Ability to generate a matter memorandum as a PDF and store iterations of it on Amazon Simple Cloud Storage Service.

System Design



- Initial mock up wireframe for the Agenda Management System Application
- AGDA System class design based on a Container/View Architecture implemented with React components

Implementation

Frontend

- React is a JavaScript library that was used to create a component front-end based web application.
- React's state management system allowed us to create a declarative solution that created a predictable and unified user experience.
- React Router v4 was used to manage the URL paths that users can access when using the application.
- Axios is an HTTP frontend library that allowed us create XHR calls to allow user interaction with server APIs.

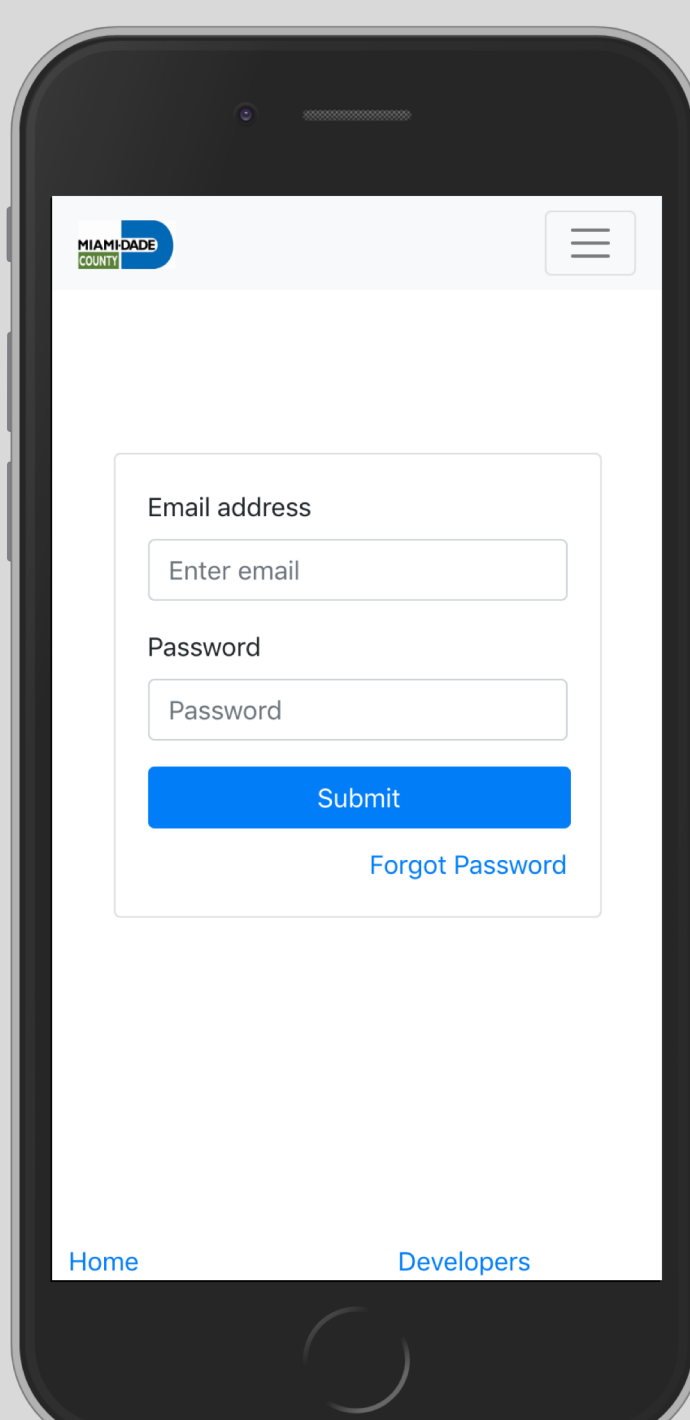
Backend

- Express is an unopinionated minimalist web framework built on top of Node.js which was utilities to communicate with third party services such as AWS RDS and AWS S3.
- API creation to verify and authenticate users input to provide a user based level application where Miami-Dade county employees only have access to.

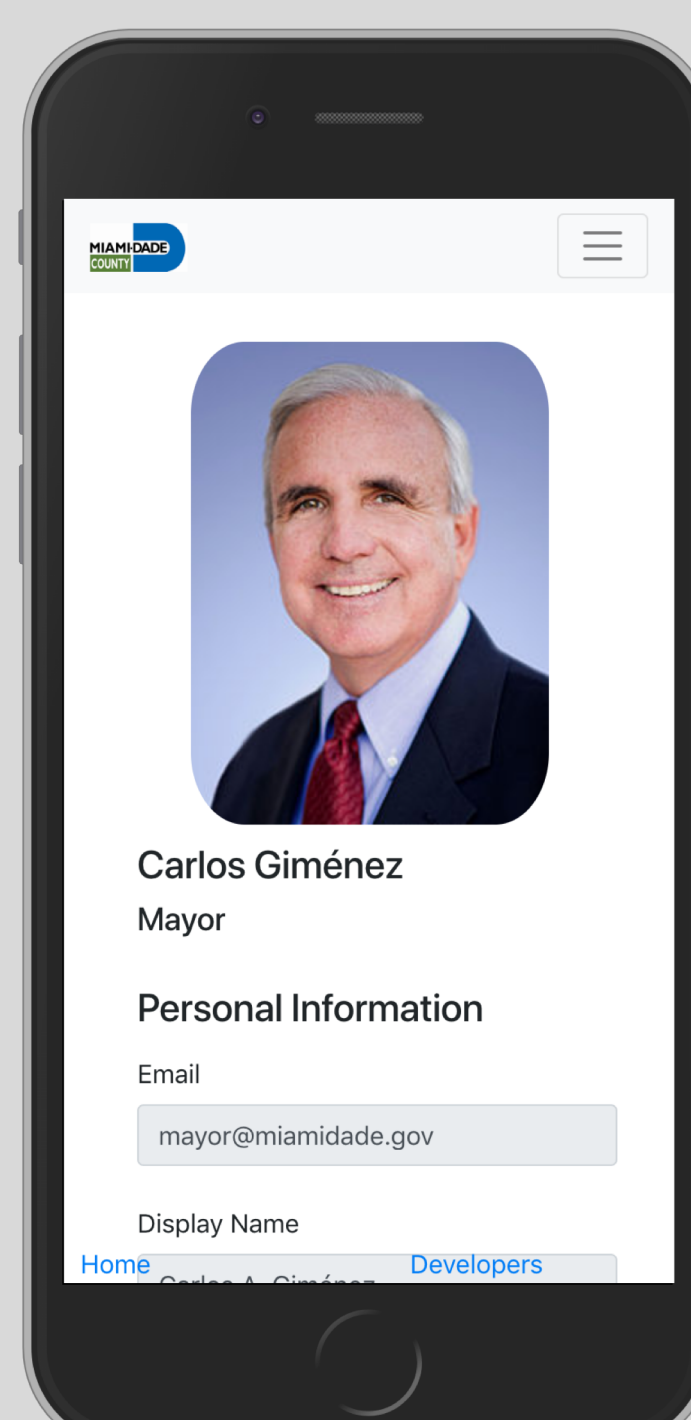
Screenshots

Single Page Application & Web Responsive

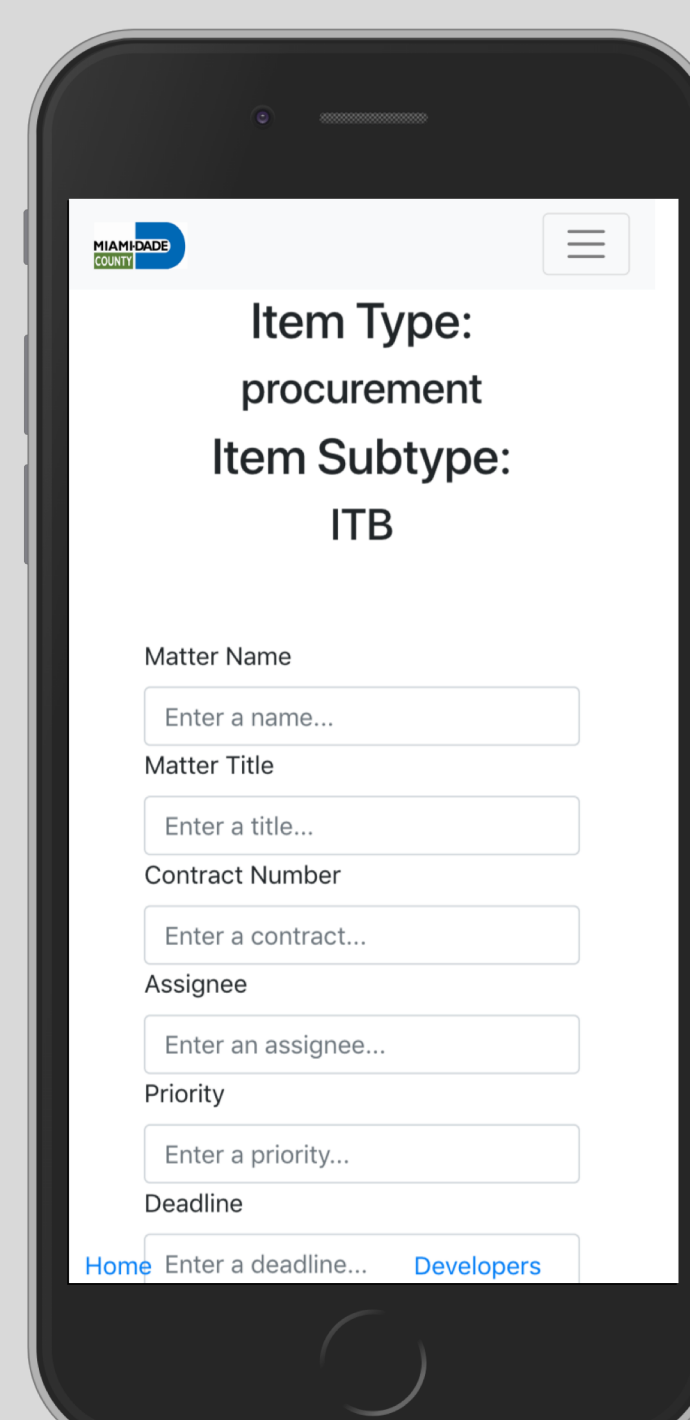
Login Page



Profile Page



Create Item Page



Summary

- The Agenda Management System (AGDA) Version 1.0 now allows Miami Dade County employees to successfully sign in and check matters created previously which are hosted on Amazon Relational Database and Simple Cloud Storage Service.
- Since AGDA is now a single page application a user can now modify or analyze the history of a matter from a single source of truth.
 - No longer do employees have to scramble around in search of an item across multiple applications.
- Further iterations of this application will have functionalities such as matter handoffs, statistical information for better tracking work progress, and user notifications for reminders of upcoming matter due dates.

Acknowledgement

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