

*Florida International University
School of Computing and Information Sciences*

Software Engineering Focus

Final Deliverable

Project Title: Aeromedical Evacuation App 1.0

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Abstract

This document presents the information necessary to gain a good understanding of the Aeromedical Evacuation App. It first provides an introduction to the current system, which involves the use of multiple applications. It then outlines the purpose of the new system, which is to make aeromedical information centralized, easily accessible, and always available. The document follows this by describing the user stories for the application, including those that were implemented and those that are pending.

The document then introduces the project plan for the application, which lists the hardware and software resources that were used in its development. It also presents the sprints that were planned and the details for each.

This is followed by a look into the application's system design, including the architectural patterns, system and subsystem decomposition, deployment diagrams, and design patterns. It also shows the system validation.

Finally, this document provides a glossary of terms and an appendix with all the application artifacts.

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INTRODUCTION

A few years ago, the Academy for International Disaster Preparedness was established at Florida International University. The Academy's mandate is to establish a professional pathway for existing disaster responders and new students exploring the exciting field of international disaster management, humanitarian relief, emergency preparedness, and homeland security [1]. It also employs faculty who are knowledgeable in their field of expertise and offer experiences typically not found in a text book.

Since its inception, the Academy's faculty have needed to provide aeromedical training materials to students in the classroom and professionals during disaster relief situations. They have done so through the use of physical media such as manuals and worksheets as well as digital media such as mobile apps, documents, slideshows, and videos. As the Academy expands its programs, the number of students and professionals needing aeromedical training materials and will continue to increase. Because of this, it is imperative that this content is held in a system that is scalable, intuitive, and convenient for the Academy and its students and professionals. This will allow the Academy to meet its mission of delivering competitive graduate and professional programs, where practicing and aspiring disaster practitioners can develop the knowledge and skills to become an effective disaster professional.

Current System

The Academy for International Disaster Preparedness currently doesn't have a defined system that is used to store and provide all of the aeromedical training materials to its students and professionals. The Academy relies on three different ways of storing and providing this

information: through physical media such as manuals and worksheets, through documents, slideshows, and videos stored on the web, and through third-party mobile applications such as Medscape, Deployed Med, and Stop the Bleed.

These three resources are used throughout the trainings and during disaster response. While the Academy has been able to use these resources in the past few years, it has been an inefficient and non-intuitive way of storing and providing these training materials. The following issues have been identified:

- **Training materials are stored in multiple places** - All training materials are distributed among different types of media and services, making it difficult for students to quickly access and know where the appropriate information is located
- **Training materials contain very extensive information** - Many training materials contain very extensive amounts of information, slowing down the process of finding and performing the needed procedure during a disaster response
- **Training materials aren't available while offline** - All digital media is available only while online, which can pose an issue to disaster responders as they perform a procedure in an area that does not have a persistent internet connection

Purpose of New System

The purpose of the Aeromedical Evacuation App is to store and provide all the aeromedical training materials needed by students and professionals in the Academy for International Disaster Preparedness. The new system will address the issues identified with the current system by providing the following:

- **A central place for storage** - All training materials will be stored and be accessible from the application, making it easy for students to access and locate the information they need in one place
- **A streamlined view of training materials** - All training materials will be accompanied by a succinct and easy-to-read summary that presents information on disaster response procedures
- **Offline accessibility** - By storing training materials within the application, they will be available without the need of a persistent internet connection and procedures can be followed anytime

USER STORIES

The following section provides the detailed user stories that were implemented in this iteration of the Aeromedical Evacuation App 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

User Story AEVA-40

User Story Name: View Information for Burn Lecture

Name: Alvaro de Castro

Team Member(s): Cesar Villa-Garcia, Jake Lopez

Project: Aeromedical Evacuation App

Product Owner(s): Bridget Pelaez, Robin Yang

Mentor(s): N/A

Instructor: Masoud Sadjadi

Description

As a User I would like to view the Burn Management information so that it can easily accessible and easy to understand.

Acceptance Criteria

- Can view the burn lecture information
- Can view the burn lecture powerpoint
- Can view interactive tabs of burn management

Use Case Diagram

UC_003

Sequence Diagram

SQ_007

Class Diagram

CD_005

Unit Test

SV_001

Visual User Guide

UI_006

User Story AEVA-48

User Story Name: Implement Navigation Bar

Name: Alvaro de Castro

Team Member(s): Cesar Villa-Garcia, Jake Lopez

Project: Aeromedical Evacuation App

Product Owner(s): Bridget Pelaez, Robin Yang

Mentor(s):

Instructor: Masoud Sadjadi

Description

As a User I would like to have access to a navigation bar so that I may be able to distinguish the different data that is available to me.

Acceptance Criteria

- There is a bottom navigation bar.
- Each tab option leads to the appropriate page.

Use Case Diagram

UC_004

Sequence Diagram

SQ_006

Unit Test

SV_002

Visual User Guide

UI_005

User Story AEVA-45

User Story Name: User can Favorite File

Name: Alvaro de Castro

Team Member(s): Cesar Villa-Garcia, Jake Lopez

Project: Aeromedical Evacuation App

Product Owner(s): Bridget Pelaez, Robin Yang

Mentor(s):

Instructor: Masoud Sadjadi

Description

As a User I would like to favorite a file so that it becomes easily accessible at any point, and is saved locally.

Acceptance Criteria

- Saves File to AsyncStorage
- Favorite a file by pressing button
- Says whether it is saved or not

Use Case Diagram

UC_001

Sequence Diagram

SEQ_001

Class Diagram

CD_001

Unit Test

SV_003

Visual User Guide

UI_007

User Story AEVA-46

User Story Name: User can view Favorited File
Name: Alvaro de Castro
Team Member(s): Cesar Villa-Garcia, Jake Lopez
Project: Aeromedical Evacuation App
Product Owner(s): Bridget Pelaez, Robin Yang
Mentor(s):
Instructor: Masoud Sadjadi

Description

As a User I would like to view my favorited files so that I can easily access the files I favorited

Acceptance Criteria

- Says whether it is saved or not
- Displays file in favorites section
- If you click file it will enlarge
- Displays favorite section and file as one component

Use Case Diagram

UC_001

Sequence Diagram

SEQ_002

Class Diagram

CD_001

Unit Test

SV_004

Visual User Guide

UI_008

User Story AEVA-47

User Story Name: Create FileViewer for Favorites Page

Name: Alvaro de Castro

Team Member(s): Cesar Villa-Garcia, Jake Lopez

Project: Aeromedical Evacuation App

Product Owner(s): Bridget Pelaez, Robin Yang

Mentor(s):

Instructor: Masoud Sadjadi

Description

As a User I would like to view my favorited file with its title so that I am able to click on the file and view it from that Favorites page

Acceptance Criteria

- File icon is paired with the title of the file
- When you click on the FileViewer it navigates you to the File View
- The FileViews are listed in the Favorites Page

Use Case Diagram

UC_002

Sequence Diagram

SEQ_004

Class Diagram

CD_001

Unit Test

SV_005

Visual User Guide

UI_008

User Story AEVA-30

User Story Name: Retrieve File Listing From Google Drive

Name: Jake Lopez

Team Member(s): Cesar Villa Garcia , Alvaro de Castro

Project: Aeromedical Evacuation App

Product Owner(s): Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: Masoud Sadjadi

Description

As a User I would like to retrieve a list of remote files from a google drive so that I can have a list of all available files to download

Acceptance Criteria:

- Given a user has opened the application
- When the user has an internet connection
- Then the remote file listing should be retrieved from the google drive

Use Case Diagram

UC_005

Sequence Diagram

SEQ_003

Class Diagram

CD_002

Unit Test

SV_006

User Story Name AEVA-32

Name: Jake Lopez

Team Member(s): Alvaro de Castro , Cesar Villa Garcia

Project: Aeromedical Evacuation App

Product Owner(s): @Ruben Almaguer

Mentor(s): @Bridget Pelaez, @Robin Yang

Instructor: Masoud Sadjadi

Description

As a User I would like to take an interactive quiz on burn degree identification **so that** I can test my ability to identify burn degrees.

Acceptance Criteria

- A user should be able to reattempt a specific image until they correctly identify it.
- The choices should change color to indicate correct and incorrect answers.
- The image choices should be generated randomly.
- When a user chooses the correct answer they should be notified.

Use Case Diagram

UC_006

Sequence Diagram

SEQ_005

Class Diagram

CD_003

Unit Test

SV_007

Visual User Guide

UI_001

UI_002

User Story AEVA-34

Name: @Jake Lopez

Team Member(s): Alvaro de Castro , Cesar Villa Garcia

Project: Aeromedical Evacuation App

Product Owner(s): Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: Masoud Sadjadi

Description

As a User I would like to have access to the Critical Event Response powerpoint **so that** I can review it when I want.

Acceptance Criteria

- User should be able to view powerpoint.

Use Case Diagram

UC_007

Sequence Diagram

SEQ_008

Class Diagram

CD_004

Unit Test

SV_008

Visual User Guide

UI_003

User Story Name AEVA-37

Name: Jake Lopez

Team Member(s): Alvaro de Castro Cesar Villa Garcia

Project: Aeromedical Evacuation App

Product Owner(s): Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: Masoud Sadjadi

Description

As a User I would like to view a breakdown of the Respiration lecture **so that I** can navigate the different sections of the lecture

Acceptance Criteria

- Have links to different sections of lecture
- Have breakdowns of the most important lecture information

Use Case Diagram

UC_008

Sequence Diagram

SEQ_009

Class Diagram

CD_006

Unit Test

SV_009

Visual User Guide

UI_004

User Story Name AEVA-38

Name: Jake Lopez

Team Member(s): Alvaro de Castro Cesar Villa Garcia

Project: Aeromedical Evacuation App

Product Owner(s): Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: Masoud Sadjadi

Description

As a User I would like to view a breakdown of the Stresses of Flight lecture **so that I** can have access to important information

Acceptance Criteria

- Have links to different sections of lecture
- Have breakdowns of the most important lecture information

Use Case Diagram

UC_009

Sequence Diagram

SEQ_013

Class Diagram

CD_008

Unit Test

SV_010

Visual User Guide

UI_015

UI_016

User Story Name AEVA-39

Name: Jake Lopez

Team Member(s): Alvaro de Castro Cesar Villa Garcia

Project: Aeromedical Evacuation App

Product Owner(s): Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: Masoud Sadjadi

Description

As a User I would like to view a breakdown of the Critical Event Response lecture **so that I** can have access to important information

Acceptance Criteria

- Have links to different sections of lecture
- Have breakdowns of the most important lecture information

Use Case Diagram

UC_010

Sequence Diagram

SEQ_014

Class Diagram

CD_009

Unit Test

SV_011

Visual User Guide

UI_0017

UI_018

User Story Name AEVA-35

Name: @Cesar Villa Garcia

Team Member(s): @Jake Lopez @Alvaro De Castro

Project: Aeromedical Evacuation App

Product Owner(s): @Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: @Masoud Sadjadi

Description

As a User I would like to access to the Cardiovascular PowerPoint presentation **so that** I can review whenever I need it

Acceptance Criteria

- User should be able to view the PowerPoint presentation
- PowerPoint presentation must be available offline

Use Case Diagram

UC_011

Sequence Diagram

SQ_010

Class Diagram

CD_007

Unit Test

SV_011

Visual User Guide

UI_009

User Story Name AEVA-43

Name: @Cesar Villa Garcia

Team Member(s): @Jake Lopez @Alvaro De Castro

Project: Aeromedical Evacuation App

Product Owner(s): @Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: @Masoud Sadjadi

Description

As a User I would like to view a summary of the Cardiovascular PowerPoint presentation **so that** I can have quick access to important lecture information

Acceptance Criteria

- User should be able to view important information from the lecture
- User should be able to scroll through the information from the lecture

Use Case Diagram

UI_012

Sequence Diagram

SQ_010

Class Diagram

CD_007

Unit Test

SV_012

Visual User Guide

UI_009

User Story Name AEVA-44

Name: @Cesar Villa Garcia

Team Member(s): @Jake Lopez @Alvaro De Castro

Project: Aeromedical Evacuation App

Product Owner(s): @Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: @Masoud Sadjadi

Description

As a User I would like to view a summary of the Traumatic Brain Injury PowerPoint presentation **so that** I can have quick access to important lecture information

Acceptance Criteria

- User should be able to view important information from the lecture
- User should be able to scroll through the information from the lecture

Use Case Diagram

UC_013

Sequence Diagram

SQ_011

Class Diagram

SQ_007

Unit Test

SV_013

Visual User Guide

UI_010

User Story Name AEVA-55

Name: @Cesar Villa Garcia

Team Member(s): @Jake Lopez @Alvaro De Castro

Project: Aeromedical Evacuation App

Product Owner(s): @Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: @Masoud Sadjadi

Description

As a User I would like to view a summary of the Patient Movement PowerPoint presentation **so that** I can have quick access to important lecture information

Acceptance Criteria

- User should be able to view important information from the lecture
- User should be able to scroll through the information from the lecture

Use Case Diagram

UC_013

Sequence Diagram

SQ_012

Class Diagram

CD_007

Unit Test

SV_014

Visual User Guide

UI_011

User Story Name AEVA-56

Name: @Cesar Villa Garcia

Team Member(s): @Jake Lopez @Alvaro De Castro

Project: Aeromedical Evacuation App

Product Owner(s): @Ruben Almaguer

Mentor(s): Bridget Pelaez, Robin Yang

Instructor: @Masoud Sadjadi

Description

As a User I would like to have an intuitive and modern user interface **so that** I can have an enjoyable experience while using the app

Acceptance Criteria

- User interface should be intuitive by providing top and bottom navigation elements
- User interface should be modern and incorporate flat and gradient design

Use Case Diagram

UC_015

Sequence Diagram

SQ_015

Class Diagram

CD_007

Unit Test

SV_014

Visual User Guide

UI_012

UI_013

UI_014

Pending User Stories

- AEVA-08 - View interactive map of FIU campus
- AEVA-17 - Dosing calculator
- AEVA-19 - View User Location
- AEVA-20 - Implement Search

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

- Apple MacBook Pro, 2016
 - Mac OS X Mojave 10.14.1
 - 2.7 GHz Intel Core i7
 - 16 GB Memory
 - Intel HD Graphics 530
- Apple MacBook, mid-2012
 - Mac OS X Mojave 10.14.1
 - 2.4 GHz Intel Core i5
 - 16 GB Memory
 - Intel HD Graphics 510
- Apple iPhone X
 - iOS 12.1
- Apple iPhone 7s
 - iOS 12.1

Software

- Microsoft VS Code 1.29.1
- Expo 31.0
- Yarn 1.12.3
- Node 10.13.0
- React Native 16.6.3
- Adobe Illustrator CC 2018
- Adobe Photoshop CC 2028
- StarUML 3.0.2
- Jira 7.11.0

- BitBucket 5.12.0
- Confluence 6.10.0
- Hipchat
- Google Drive
- Google Docs
- Google Slides

Sprints Plan

Sprint 1

Sprint 1 was used to conduct a feasibility study for the project. Considering we started well within the first week of Sprint 1 this seemed to be a reasonable conclusion. The team went on to survey existing applications in the medical information space. Eventually we began to notice that the scope of the project as proposed by the product owners would have to narrow considerably to deliver a viable product by the end of this semester. As such we came to the conclusion that focusing on delivering lecture content to the device would be the main focus of our work.

Sprint 2

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia

Date: 2018-09-17

Start time: 12:00 p.m.

End time: 1:30 p.m.

After discussion, the velocity of the team were estimated to be **60 hours**.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- User Story AEVA-30 - Deliver content from google drive
- User Story AEVA-27 - Implement navigation of Organ Systems
- User Story AEVA-62 - Create UI mockup for application

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

- Jake Lopez
 - AEVA-30 - Deliver content from google drive
- Alvaro De Castro
 - AEVA-27 - Implement navigation of Organ Systems
- Cesar Villa-Garcia
 - AEVA-62 - Create UI mockup for application

Sprint 3

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia

Date: 2018-10-01

Start time: 11:00 a.m.

End time: 11:30 a.m.

After discussion, the velocity of the team were estimated to be **105 hours**.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- AEVA-32 - Create interactive quiz for burn management.
- AEVA-33 - Create lecture overview page
- AEVA-4 - Organize resources by lecture
- AEVA-56 - Create graphical assets for app
- AEVA-58 - Create user interface for home page
- AEVA-59 - Create user interface for organ systems page

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

Alvaro De Castro

- AEVA-33 - Create lecture overview page
- AEVA-4 - Organize resources by lecture

Jake Lopez

- AEVA-32 - Create interactive quiz for burn management.

Cesar Villa-Garcia

- AEVA-56 - Create graphical assets for app
- AEVA-58 - Create user interface for home page
- AEVA-59 - Create user interface for organ systems page

Sprint 4

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia

Date: 2018-10-15

Start time: 10:00 a.m.

End time: 10:20 a.m.

After discussion, the velocity of the team were estimated to be 60 hours.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- AEVA-35 - Create page for Cardiovascular lecture powerpoint
- AEVA-34 - Create page for Critical Event Response powerpoint
- AEVA-36 - Create page for Respiratory powerpoint

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

Cesar Villa-Garcia

- AEVA-35 - Create page for Cardiovascular lecture powerpoint

Jake Lopez

- AEVA-34 - Create page for Critical Event Response powerpoint

Alvaro De Castro

- AEVA-36 - Create page for Respiratory powerpoint

Sprint 5

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia

Date: 2018-10-29

Start time: 1:00 p.m.

End time: 1:30 p.m.

After discussion, the velocity of the team were estimated to be 105 hours

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- AEVA-37 - View information for Respiration Lecture
- AEVA-38 - View information for Stresses of Flight lecture
- AEVA-39 - View information for Critical Event Response lecture
- AEVA-40 - View information for Burn lecture
- AEVA-41 - View information for Trauma Lecture
- AEVA-42 - View information for Special Population lecture
- AEVA-43 - View information for Cardiovascular lecture
- AEVA-44 - View information for Traumatic Brain Injury lecture
- AEVA-55 - View information for Patient Movement lecture

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

Jake Lopez

- AEVA-37 - View information for Respiration Lecture
- AEVA-38 - View information for Stresses of Flight lecture
- AEVA-39 - View information for Critical Event Response lecture

Alvaro De Castro

- AEVA-40 - View information for Burn lecture
- AEVA-41 - View information for Trauma Lecture
- AEVA-42 - View information for Special Population lecture

Cesar Villa-Garcia

- AEVA-43 - View information for Cardiovascular lecture
- AEVA-44 - View information for Traumatic Brain Injury lecture
- AEVA-55 - View information for Patient Movement lecture

Sprint 6

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia

Date: 2018-11-13

Start time: 12:00 p.m.

End time: 12:30 p.m.

After discussion, the velocity of the team were estimated to be 120 hours

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

- AEVA-37 - View information for Respiration Lecture
- AEVA-38 - View information for Stresses of Flight lecture
- AEVA-39 - View information for Critical Event Response lecture
- AEVA-40 - View information for Burn lecture
- AEVA-41 - View information for Trauma Lecture
- AEVA-42 - View information for Special Population lecture
- AEVA-43 - View information for Cardiovascular lecture
- AEVA-44 - View information for Traumatic Brain Injury lecture
- AEVA-55 - View information for Patient Movement lecture

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

Jake Lopez

- AEVA-37 - View information for Respiration Lecture
- AEVA-38 - View information for Stresses of Flight lecture
- AEVA-39 - View information for Critical Event Response lecture

Alvaro De Castro

- AEVA-40 - View information for Burn lecture
- AEVA-41 - View information for Trauma Lecture
- AEVA-42 - View information for Special Population lecture

Cesar Villa-Garcia

- AEVA-43 - View information for Cardiovascular lecture

- AEVA-44 - View information for Traumatic Brain Injury lecture
- AEVA-55 - View information for Patient Movement lecture

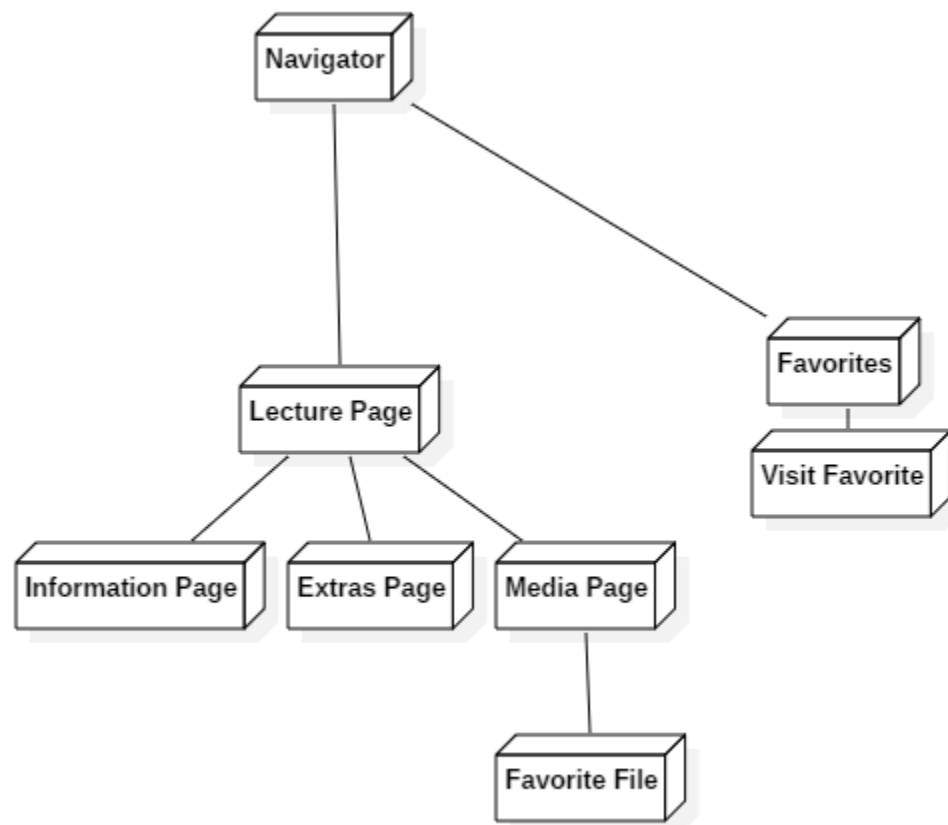
SYSTEM DESIGN

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

This application uses a layered pattern approach to its design. The application follows the standard layering method of having a presentation or user interface layer, an application layer, a business logic layer, and a data access layer.

System and Subsystem Decomposition

**Navigator**

The navigator is the root of the application. It allows the user to swap between different sections of the application as well as access the individual lecture pages.

Lecture Page

The lecture page is the base page which contains separate tabs being the information page, extras page if applicable, and media page.

Favorites

The favorites system is a local store which saves links to a users favorited media.

Visit Favorite

The visit favorite system allows for a user to quickly jump to media which they have previously favorited.

Information Page

The information page is the table of contents for a given lecture. It allows a user to jump to sections which contain information related to the content of that lecture.

Extras Page

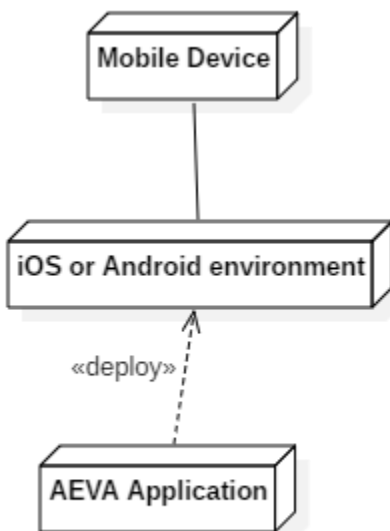
The extras page contains content that is not exclusive to the information page and is also interactable. An example can be something like a formula calculator.

Media Page

The media page houses all the media relating to a lecture such as the related powerpoint.

Favorite File

The favorite file exists on the media page and allows a user to add the file to their favorites list.

Deployment Diagram

The deployment diagram above shows that the mobile application is run through either the Android or iOS environment on a mobile device.

Design Patterns

When working with React Native it is imperative that one adopts design patterns common to functional programming as it allows you to leverage the benefits of the framework. One such design pattern was creating general components, which in essence are functions that are quite general and have specific behavior when passed particular arguments.

Another design pattern was the use of callback functions. Because React Native is functional in order to allow there to be context within a given component then a callback function must be used. This function is passed down from a parent component and allows the child component to execute from within the context of the parent.

SYSTEM VALIDATION

SV_001

Unit test 1

- Test case ID: View Burn Management
- Description/Summary of Test: Check whether system allows you to click on burn management lecture, and provides all the information and tabs required.
- Pre-condition: The applications is downloaded and launched
- Expected Results: The system will navigate you to the Burn management lecture, and provide different tabs to interact with: Info, Media, Equations, Quiz
- Actual Result: The test went as expected, the system navigated to the Burn management Lecture and I was able to view all of the tabs
- Status (Fail/Pass): Pass

SV_002

Unit test 1

- Test case ID: Bottom Navigation
- Description/Summary of Test: The system should render a bottom navigation bar, and each tab option should lead to a navigation stack. We will be testing that the Favorite's tab leads to the Favorite Screen Stack.
- Pre-condition: The applications is downloaded and launched
- Expected Results: Once the tab option is pressed it would load the Favorite Screen Stack which should show all the favorited files.
- Actual Result: The test went as expected, the navigation bar navigated the system to the Favorite Screen stack
- Status (Fail/Pass): Pass

SV_003

Unit test 1

- Test case ID: Favoriting a File
- Description/Summary of Test: Click Favorite on burn management powerpoint found on the lecture page
- Pre-condition: The applications is downloaded and launched
- Expected Results: The file will show as favorited on the media page and also be found in the Favorites page
- Actual Result: The test went as expected, and the file shown as favorited and showed on the favorites page
- Status (Fail/Pass): Pass

SV_004

Unit test 1

- Test case ID: View Favorites
- Description/Summary of Test: When Favorites tab is clicked on, it will list all of the files that have been favorited.
- Pre-condition: The app has been downloaded and launched. The system has favorited at least one file
- Expected Results: View all favorited files in a orderly mannered
- Actual Result: The system displayed the favorited files
- Status (Fail/Pass):Pass

SV_005

Unit test 1

- Test case ID: FileViewer
- Description/Summary of Test: Make sure that the fileviewer are being used to represent each favorited file, and that the function of the FileViewer works properly.
- Pre-condition: The app has been downloaded and launched. The system has favorited at least one file.
- Expected Results: Each Favorited file will be displayed with a file icon along with its title. If you click on any favorited File it will navigate you the corresponding file Media Page.
- Actual Result: The burn management file is shown with it's stock file image. When it is pressed it sends you to the Burn Management Media Page.
- Status (Fail/Pass): Passed

SV_006

Test case ID: Retrieves File list

Description/Summary of Test: File listing from Google Drive are returned in a JSON format.

Pre-condition: User has internet access and has launched the application.

Expected Results: A JSON formatted response from the Drive API has been returned.

Actual Result: a JSON formatted Response from the Drive AP has been returned.

Status (Fail/Pass): Pass

Test case ID: File list parsed

Description/Summary of Test: JSON formatted file listing is parsed into a document-folder structure.

Pre-condition: A JSON formatted file listing has been returned from the Drive API.

Expected Results: JSON formatted file listing is converted into a document-folder structure.

Actual Result: JSON formatted file listing is converted into a document-folder structure.

Status (Fail/Pass): Pass

SV_007**Unit Test 1**

- Test case ID: Correct Answer opens dialog box
- Description/Summary of Test: When a user chooses the correct answer a dialog box should appear and generate a new question
- Pre-condition: User is on Burn ID Quiz
- Expected Results: A dialog box appears
- Actual Result: A dialog box appears
- Status (Fail/Pass): Pass

Unit Test 2

- Test case ID: Incorrect answer changes selection color to red
- Description/Summary of Test: When a user chooses the wrong answer the choice is marked red
- Pre-condition: User is on Burn ID Quiz
- Expected Results: Choice becomes red
- Actual Result: Choice becomes red
- Status (Fail/Pass): Pass

SV_008

Unit Test

- Test case ID: View powerpoint on tab change
- Description/Summary of Test: When user selects the media tab they should see the correct lecture slides.
- Pre-condition: User is on critical event response section.
- Expected Results: Critical event response lecture slides are shown.
- Actual Result: Critical event response lecture slides are shown
- Status (Fail/Pass): Pass

SV_009

Unit Test

- Test case ID: Jump to section
- Description/Summary of Test: When a user clicks a specific link they should be navigated via scrolling to the requested section.
- Pre-condition: User is on content list section of lecture
- Expected Results: User is navigated toward their desired section
- Actual Result: User is navigated toward their desired section
- Status (Fail/Pass): Pass

SV_010

Unit Test

- Test case ID: Jump to section
- Description/Summary of Test: When a user clicks a specific link they should be navigated via scrolling to the requested section.
- Pre-condition: User is on content list section of lecture
- Expected Results: User is navigated toward their desired section
- Actual Result: User is navigated toward their desired section
- Status (Fail/Pass): Pass

SV_011

Unit Test

- Test case ID: View PowerPoint presentation
- Description/Summary of Test: When user selects tab item titled "Media", they should be shown the PowerPoint presentation
- Pre-condition: User is on the page for Cardiovascular
- Expected Results: User will be shown the Cardiovascular PowerPoint slides
- Actual Result: User is shown the Cardiovascular PowerPoint slides
- Status (Fail/Pass): Pass

SV_012

Unit Test

- Test case ID: View summary of the Cardiovascular PowerPoint presentation
- Description/Summary of Test: When user selects tab item titled "Information", they should be shown the summary of the PowerPoint presentation
- Pre-condition: User is on the page for Cardiovascular
- Expected Results: User will be shown the summary of the Cardiovascular PowerPoint presentation
- Actual Result: User is shown the summary of the Cardiovascular PowerPoint presentation
- Status (Fail/Pass): Pass

SV_013

Unit Test

- Test case ID: View summary of the Traumatic Brain Injury PowerPoint presentation
- Description/Summary of Test: When user selects tab item titled "Information", they should be shown the summary of the PowerPoint presentation
- Pre-condition: User is on the page for Traumatic Brain Injury
- Expected Results: User will be shown the summary of the Traumatic Brain Injury PowerPoint presentation
- Actual Result: User is shown the summary of the Traumatic Brain Injury PowerPoint presentation
- Status (Fail/Pass): Pass

SV_014

Unit Test

- Test case ID: View user interface of application
- Description/Summary of Test: User opens the app on their phone and is welcomed by the home screen, and able to navigate through the user interface elements
- Pre-condition: User must open the application
- Expected Results: User will be shown the home screen and is able to navigate the app through the user interface elements
- Actual Result: User is shown the home screen and is able to navigate the app through the user interface element
- Status (Fail/Pass): Pass

SV_014

Unit Test

- Test case ID: View summary of the Patient Movement PowerPoint presentation
- Description/Summary of Test: When user selects tab item titled "Information", they should be shown the summary of the PowerPoint presentation
- Pre-condition: User is on the page for Patient Movement
- Expected Results: User will be shown the summary of the Patient Movement PowerPoint presentation
- Actual Result: User is shown the summary of the Patient Movement PowerPoint presentation
- Status (Fail/Pass): Pass

SV_011

Unit Test

- Test case ID: Jump to section
- Description/Summary of Test: When a user clicks a specific link they should be navigated via scrolling to the requested section.
- Pre-condition: User is on content list section of lecture
- Expected Results: User is navigated toward their desired section
- Actual Result: User is navigated toward their desired section
- Status (Fail/Pass): Pass

GLOSSARY

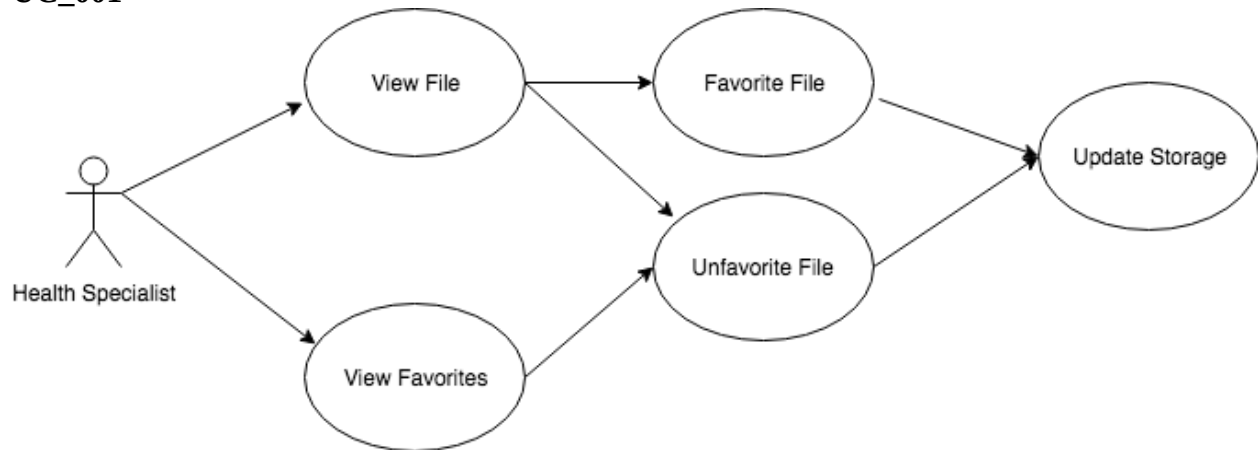
AEVA - Aeromedical Evacuation App

APPENDIX

Appendix A - UML Diagrams

Use Cases:

UC_001



UC_002**Use Case 1:**

- Name: Create Favorite bar
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user will use the favorite bar which will contain a button to save the current file being viewed

Use Case 2:

- Name: Create Media Page
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user will use the media page in each lecture to see files. The media page will contain a favorite bar along with the contents of the file.

Use Case 3:

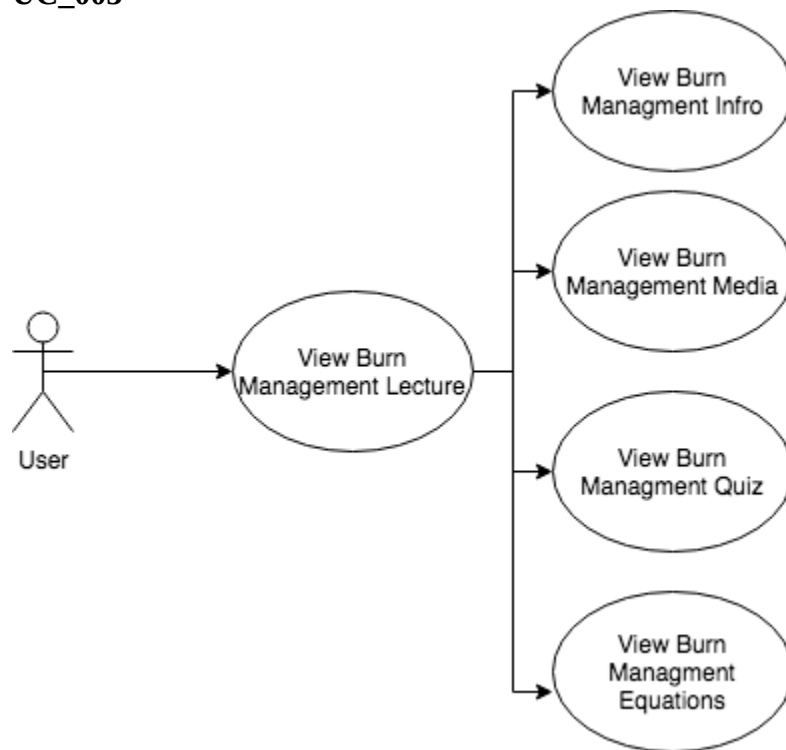
- Name: Create Async Storage service
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The system will use the async storage service, to store the files that have been favorited by the users. The service will also be able to retrieve the current saved files, as well as remove files.

Use Case 5:

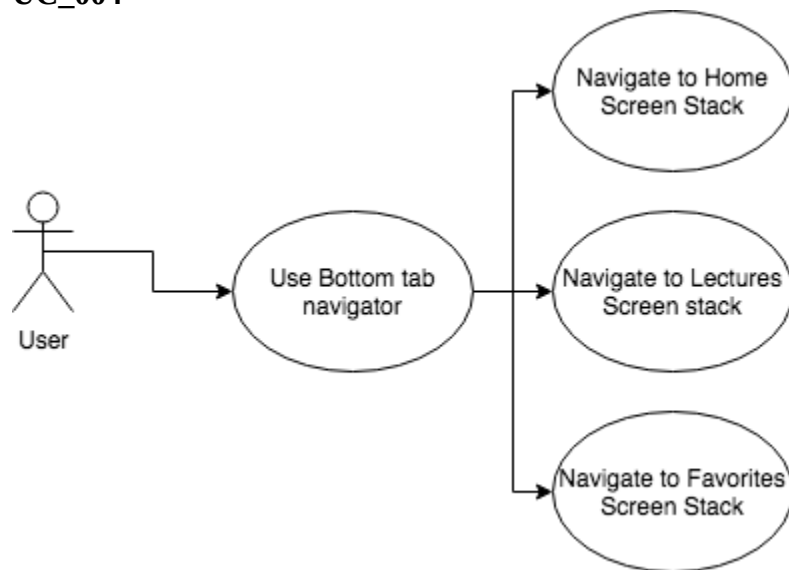
- Name: Create File Viewer
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can use File Viewers in the Favorites page. A file viewer is a stock Image of a file, along with the file title styled into one item. When it is clicked it opens the file and displays the contents

Use Case 4:

- Name: Create Favorites Page
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can go into the Favorites page to see which files the user has saved. The files will be displayed by FileViewers.

UC_003**Use Case 1:**

- Name: View Burn Management Lecture
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can view the burn management lecture page and swap between different sections.

UC_004**Use Case 1:**

- Name: Use bottom tab navigator
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can use the bottom tab navigation to move between the different portions of the application.

Use Case 2:

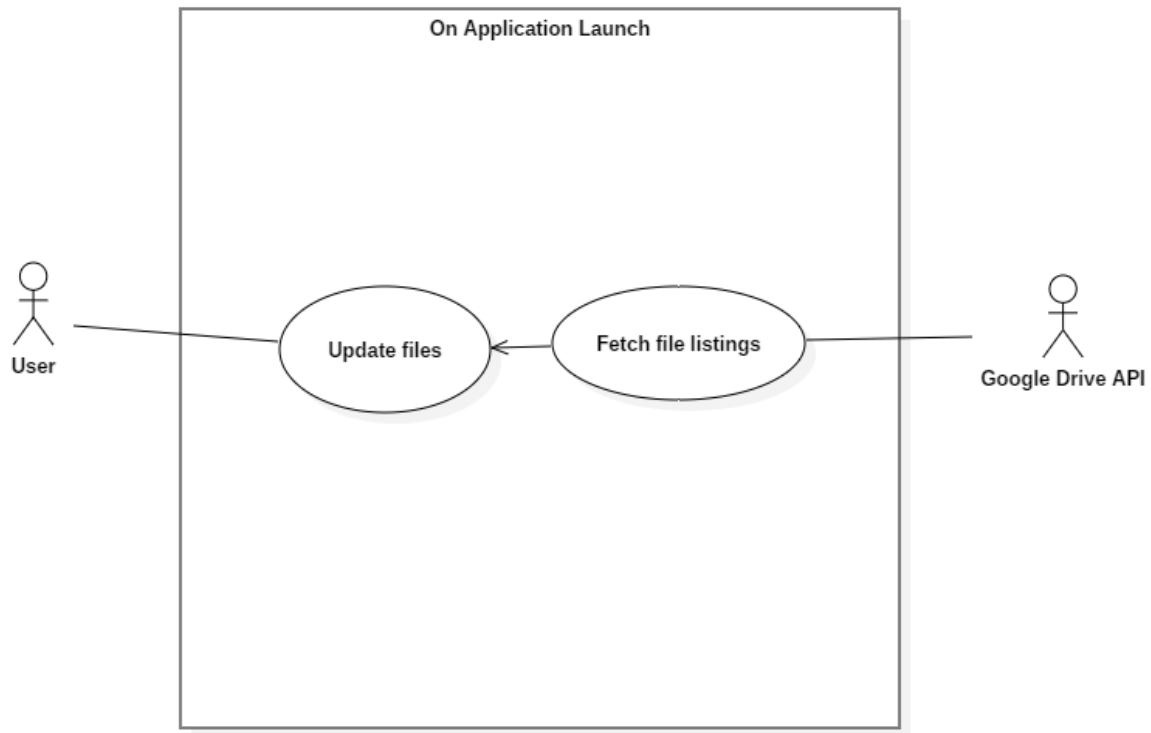
- Name: Navigate to Home Screen Stack
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can use the home button to move to the home screen.

Use Case 3:

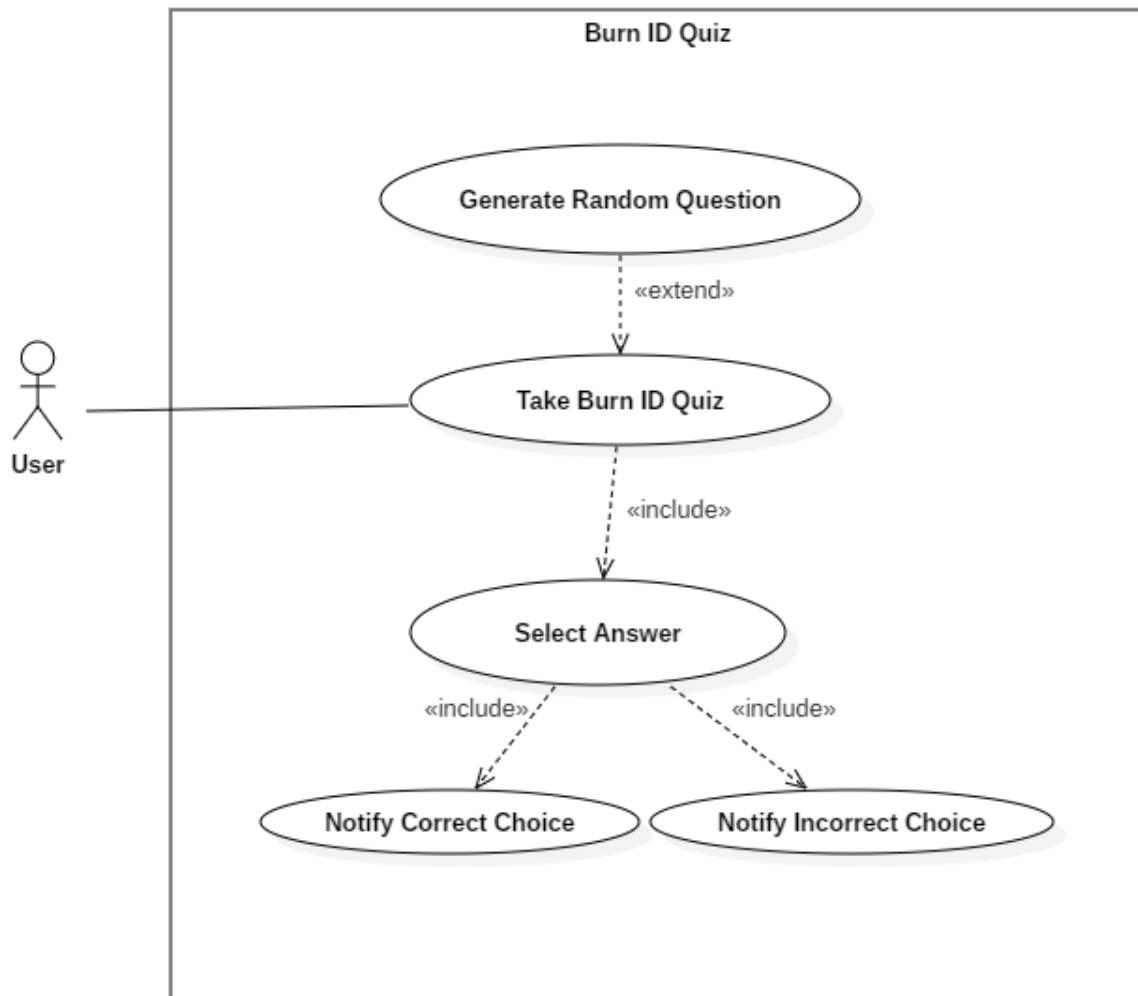
- Name: Navigate to Lectures Screen Stack
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can use the home button to move to the lectures screen.

Use Case 4:

- Name: Navigate to Favorites Screen Stack
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can use the home button to move to the favorites screen.

UC_005**Use Case**

- Name: Retrieve file list on application launch
- Actor: User
- Preconditions: User has launched application and has internet connection
- Description <Flow of events>:
 - A JWT token is created
 - An HTTP request is made to the google drive API for a file listing
 - The resulting JSON blob is returned and parsed for viewing

UC_006**Use Case 1**

- Name: Take Burn Quiz
- Actor: User
- Preconditions: User is at the burn management lecture
- Description <Flow of events>: User taps on "Burn ID Quiz" menu item and is taken to the burn quiz section.

Use Case 2

- Name: Select Answer

- Actor: User
- Preconditions: User is at the burn identification quiz
- Description <Flow of events>: User taps on an answer choices and the answer is then verified.

Use Case 3

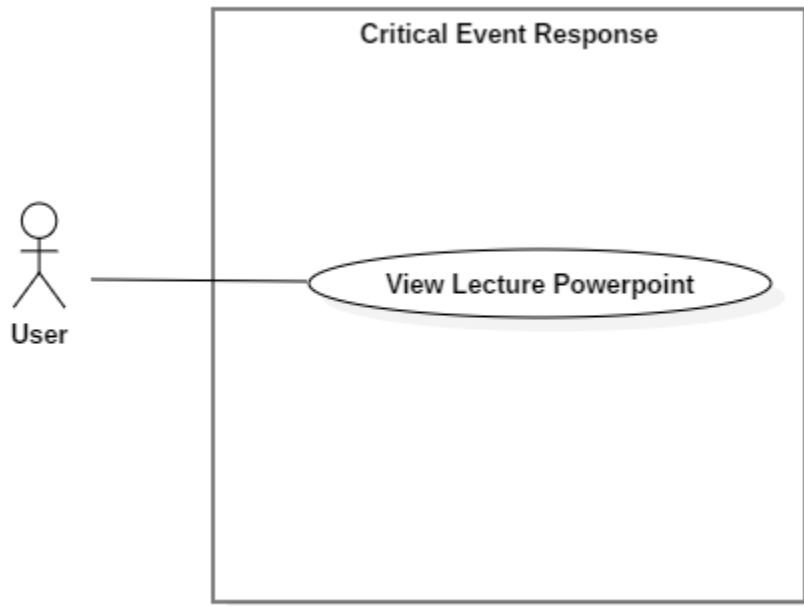
- Name: Notify Correct Choice
- Actor: User
- Preconditions: User has selected the correct answer to the quiz.
- Description <Flow of events>: The correct choice button color becomes green and a pop-up dialog appears prompting the user to generate a new question or to exit the quiz.

Use Case 4

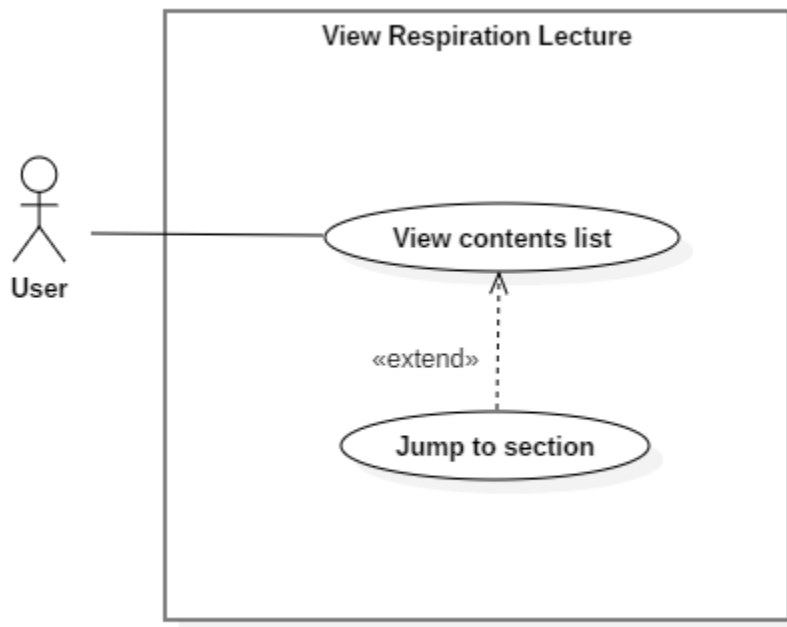
- Name: Notify Incorrect Choice
- Actor: User
- Preconditions: User has selected the wrong answer to the quiz.
- Description <Flow of events>: The incorrect choice button color becomes red.

Use Case 5

- Name: Generate Random Question
- Actor: User
- Preconditions: Either User has selected the correct answer to the quiz or has just entered the quiz section.
- Description <Flow of events>: A new image and correct answer choice are selected at random from a library of choices and presented.

UC_007**Use Case**

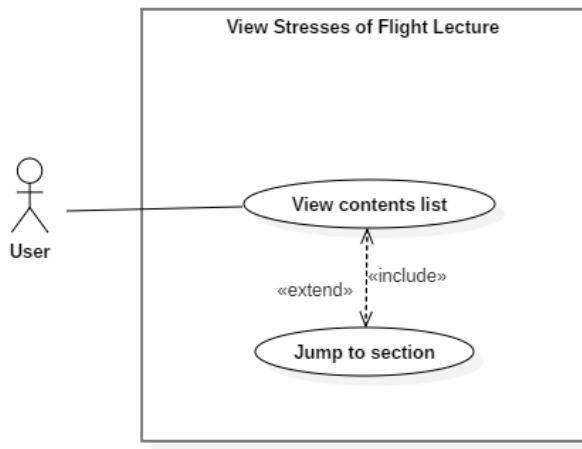
- Name: View lecture powerpoint
- Actor: User
- Preconditions: User is on page for Critical Event Response
- Description <Flow of events>: User selects tab titled Media and is presented with the lecture slides.

UC_008**Use Case 1**

- Name: View contents list
- Actor: User
- Preconditions: User is at lecture list section
- Description <Flow of events>: User taps on the button labeled View contents list and is then navigated to the Respiration lecture section.

Use Case 2

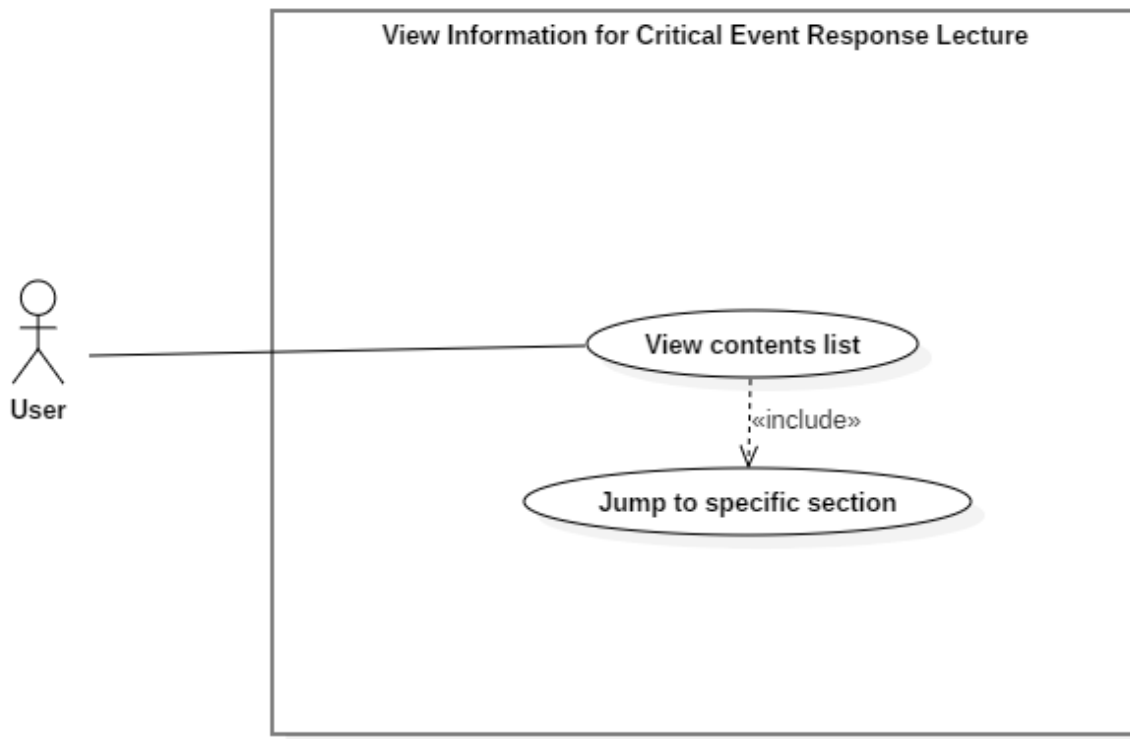
- Name: Jump to section
- Actor: User
- Preconditions: User is at respiration lecture contents list
- Description <Flow of events>: User taps on a specific link to a section and is then navigated to that section

UC_009**Use Case 1**

- Name: View contents list
- Actor: User
- Preconditions: User is at lecture list section
- Description <Flow of events>: User taps on the button labeled View contents list and is then navigated to the Stresses of Flight lecture section.

Use Case 2

- Name: Jump to section
- Actor: User
- Preconditions: User is at respiration lecture contents list
- Description <Flow of events>: User taps on a specific link to a section and is then navigated to that section

UC_010**Use Case 1**

- Name: View contents list
- Actor: User
- Preconditions: User is at lecture list section
- Description <Flow of events>: User taps on the button labeled View contents list and is then navigated to the Critical Event Response lecture section.

Use Case 2

- Name: Jump to section
- Actor: User
- Preconditions: User is at respiration lecture contents list
- Description <Flow of events>: User taps on a specific link to a section and is then navigated to that section

Use Case 1:

- Name: Create Cardiovascular Lecture page
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user will use the favorite bar which will contain a button to save the current file being viewed

Use Case 2:

- Name: Create Media Page
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user will use the media page in each lecture to see files. The media page will contain a favorite bar along with the contents of the file.

Use Case 3:

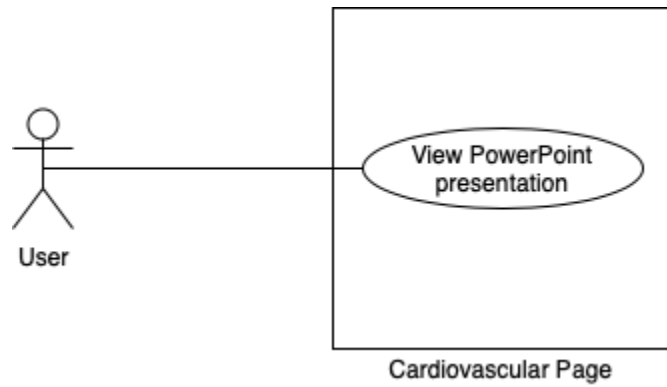
- Name: Create Async Storage service
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The system will use the async storage service, to store the files that have been favorited by the users. The service will also be able to retrieve the current saved files, as well as remove files.

Use Case 4:

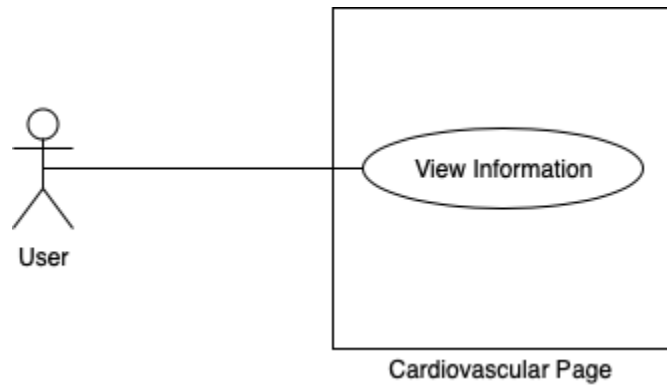
- Name: Create Favorites Page
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can go into the Favorites page to see which files the user has saved. The files will be displayed by FileViewers.

Use Case 5:

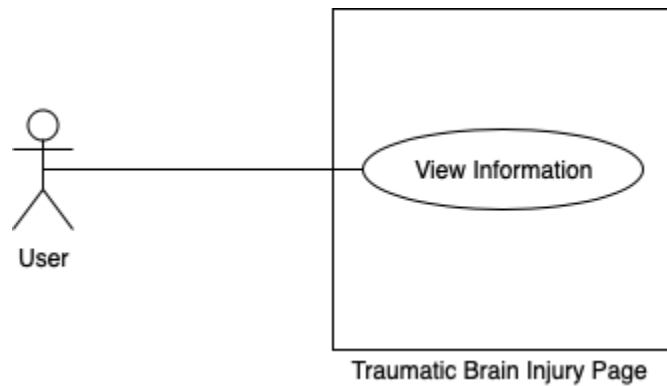
- Name: Create File Viewer
- Actor: A user of the AEVA app.
- Preconditions: None
- Description: The user can use File Viewers in the Favorites page. A file viewer is a stock Image of a file, along with the file title styled into one item. When it is clicked it opens the file and displays the contents

UC_011**Use Case**

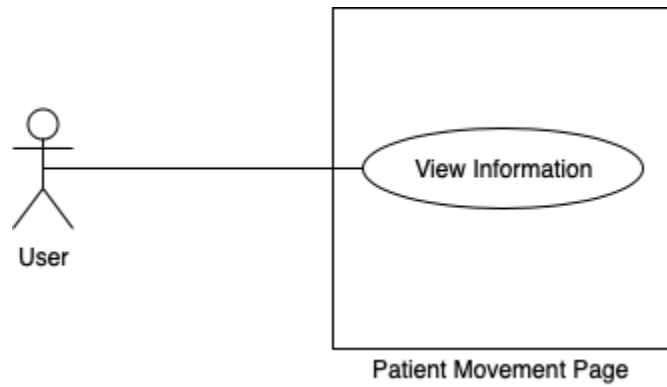
- Name: View PowerPoint presentation for the lecture
- Actor: User
- Preconditions: User is on the page for Cardiovascular
- Description <Flow of events>: User selects tab item titled "Media" and is shown the PowerPoint presentation

UC_012**Use Case**

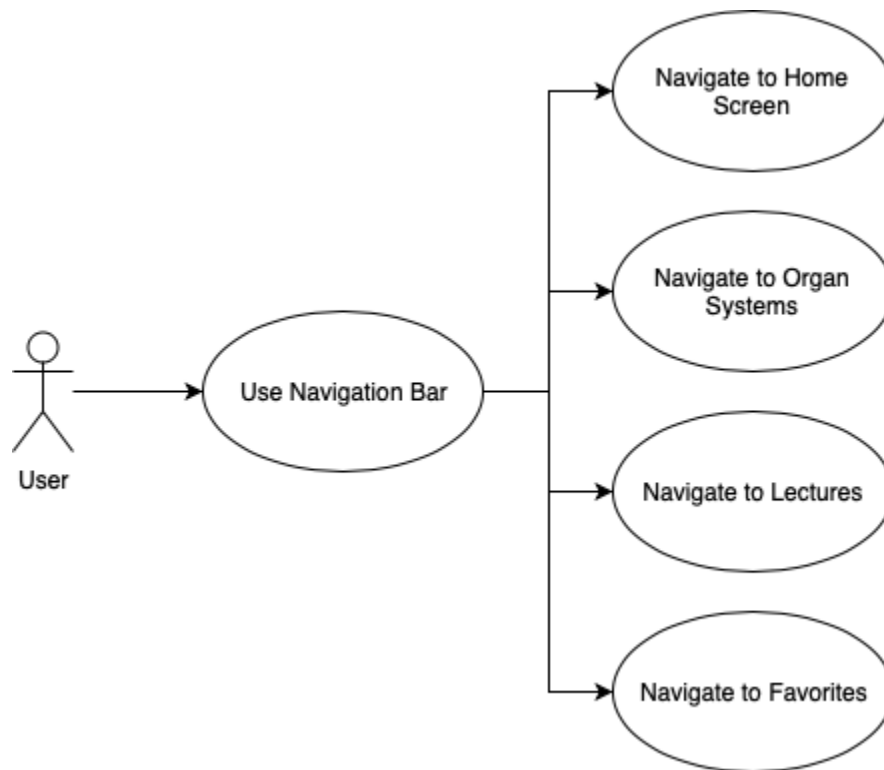
- Name: View summary of Cardiovascular PowerPoint presentation
- Actor: User
- Preconditions: User is on the page for Cardiovascular
- Description <Flow of events>: User selects tab item titled "Information" and is shown the summary of the Cardiovascular PowerPoint presentation

UC_013**Use Case**

- Name: View summary of Traumatic Brain Injury PowerPoint presentation
- Actor: User
- Preconditions: User is on the page for Traumatic Brain Injury
- Description <Flow of events>: User selects tab item titled "Information" and is shown the summary of the Traumatic Brain Injury PowerPoint presentation

UC_014**Use Case**

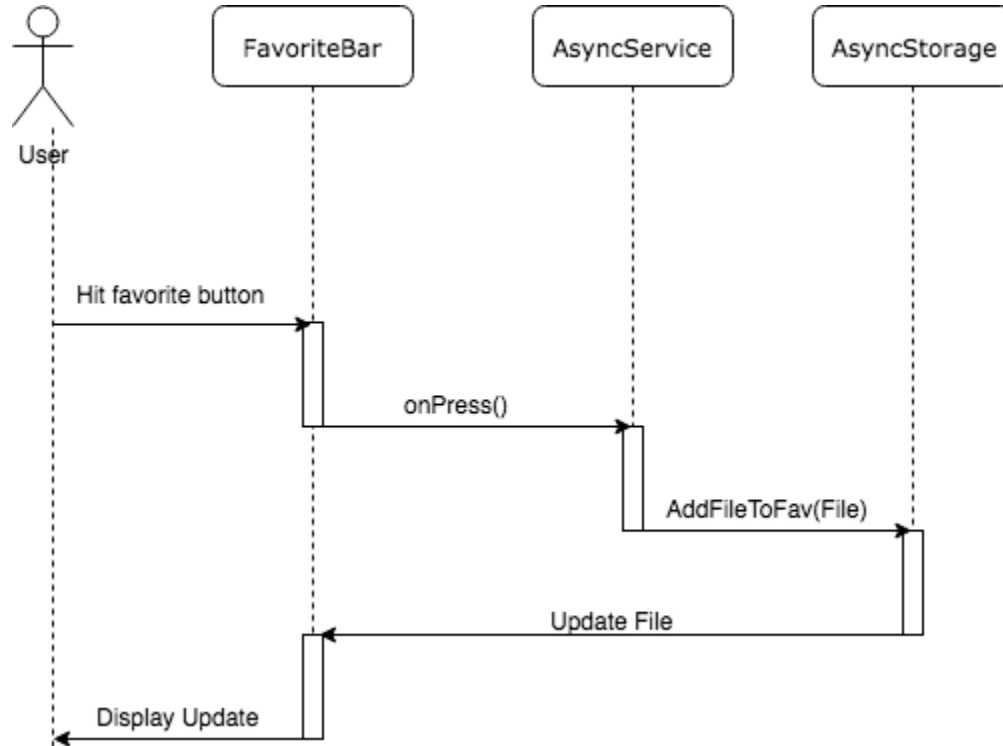
- Name: View summary of Patient Movement PowerPoint presentation
- Actor: User
- Preconditions: User is on the page for Patient Movement
- Description <Flow of events>: User selects tab item titled "Information" and is shown the summary of the Patient Movement PowerPoint presentation

UC_015**Use Case**

- Name: View user interface of application
- Actor: User
- Preconditions: User opens the application
- Description <Flow of events>: User opens the app on their phone and is welcomed by the home screen. User can then navigate the application through the different user interface elements

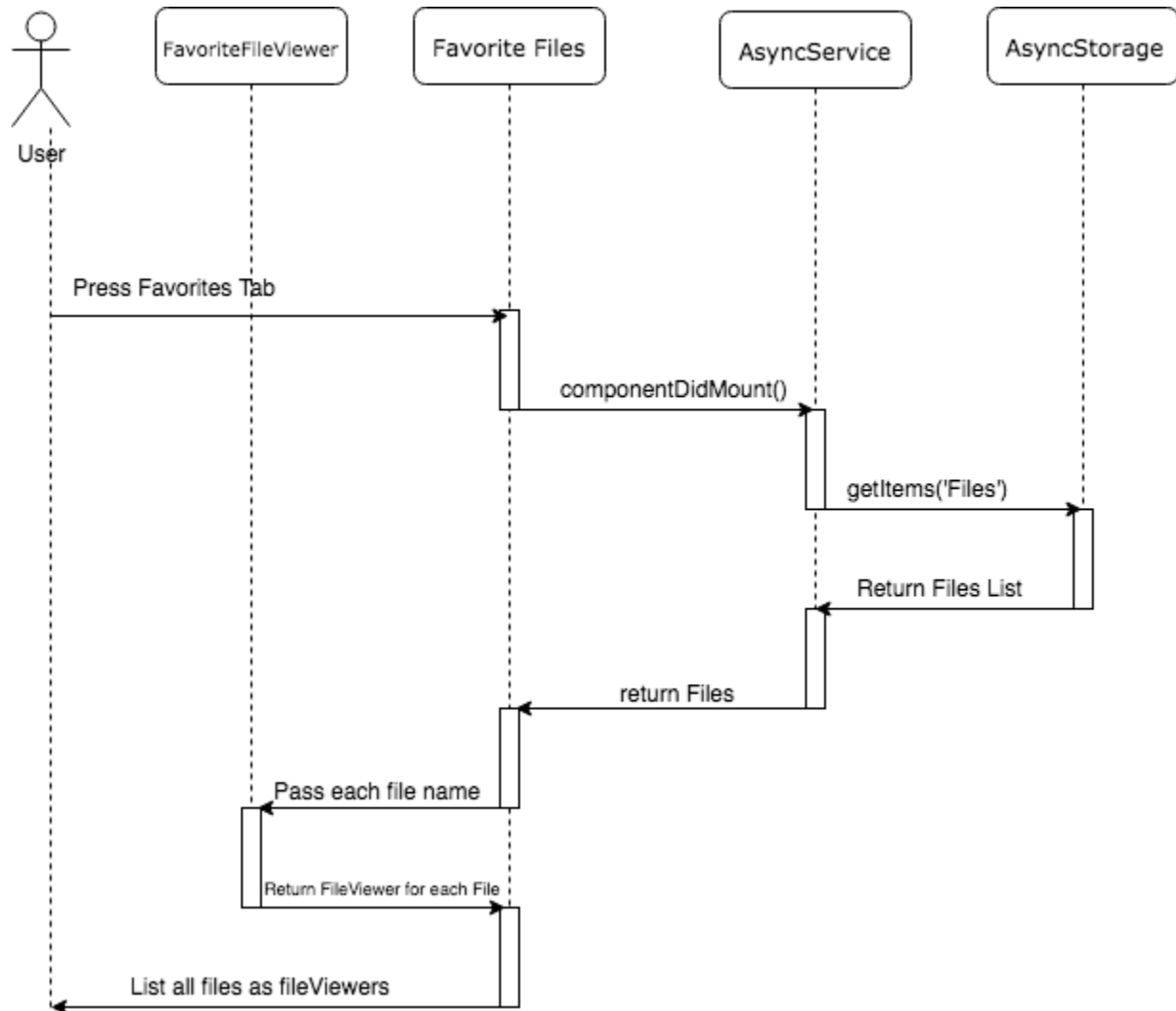
Sequence Diagrams:**SEQ_001**

Favorite a File



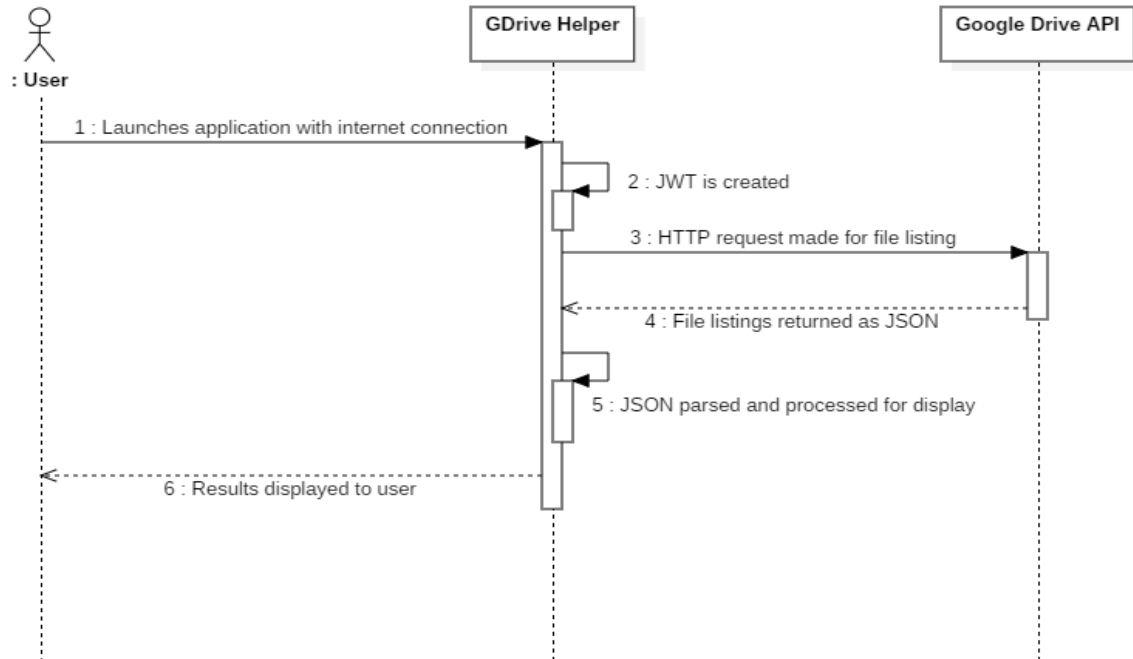
SEQ_002

View Favorites



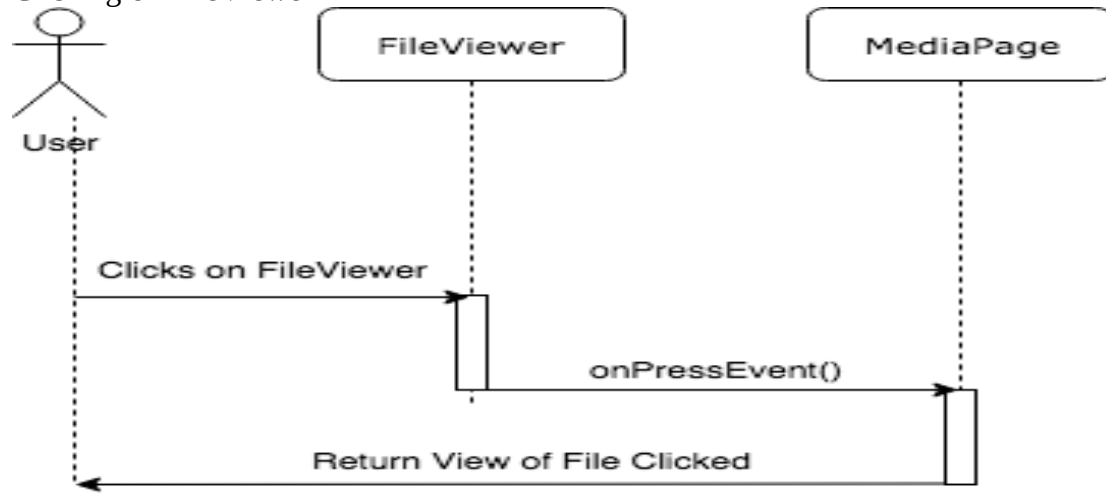
SEQ_003

Fetch files from Google Drive



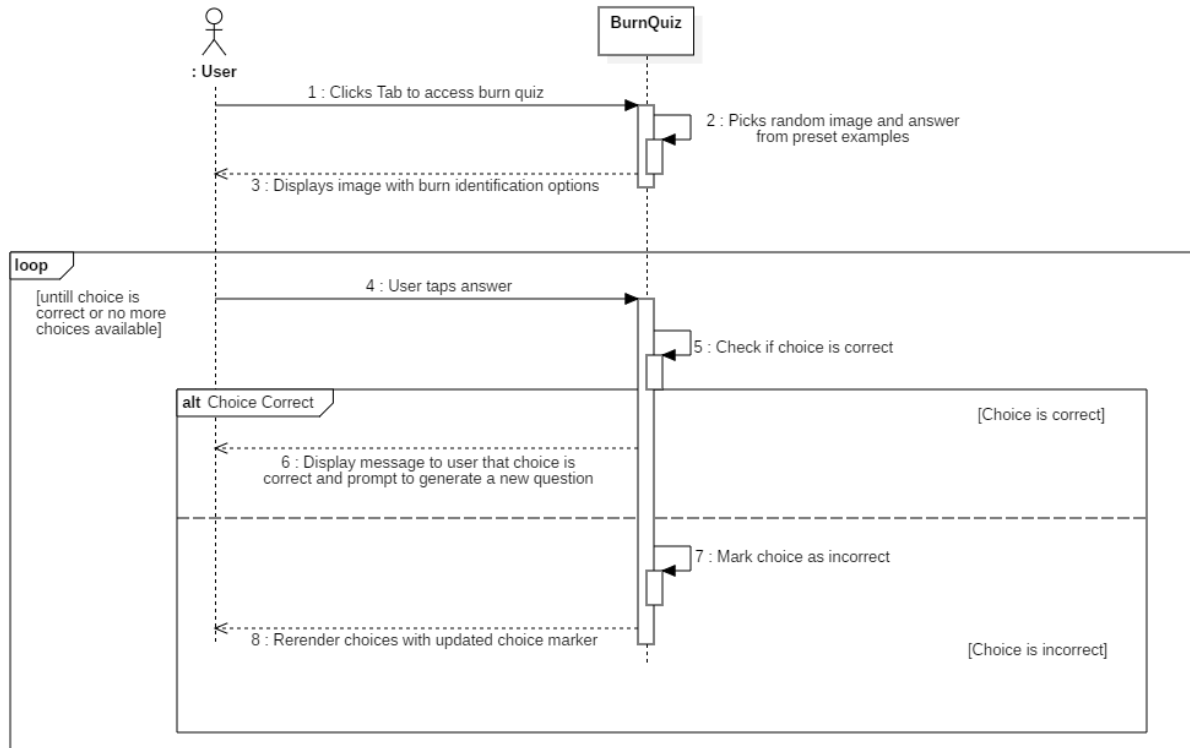
SEQ_004

Clicking on FileViewer



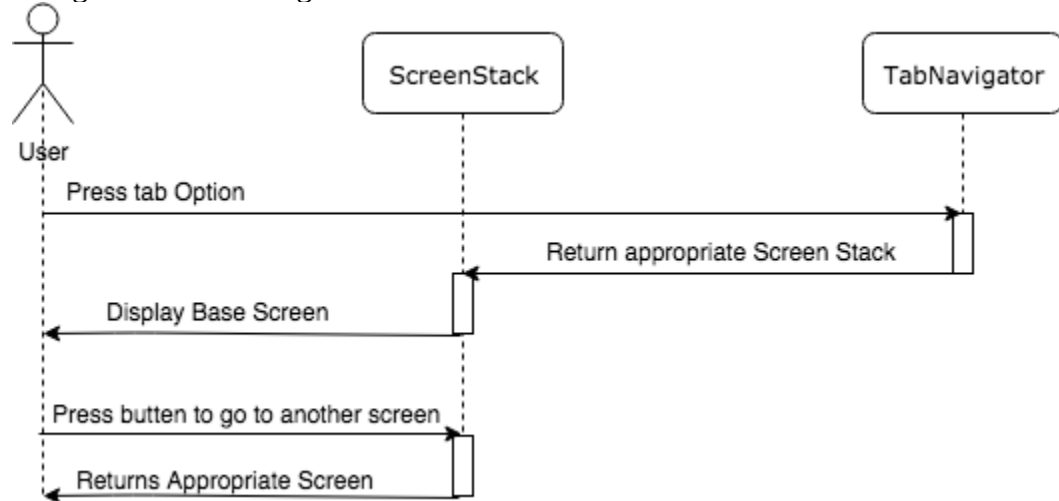
SEQ_005

Take burn quiz interaction



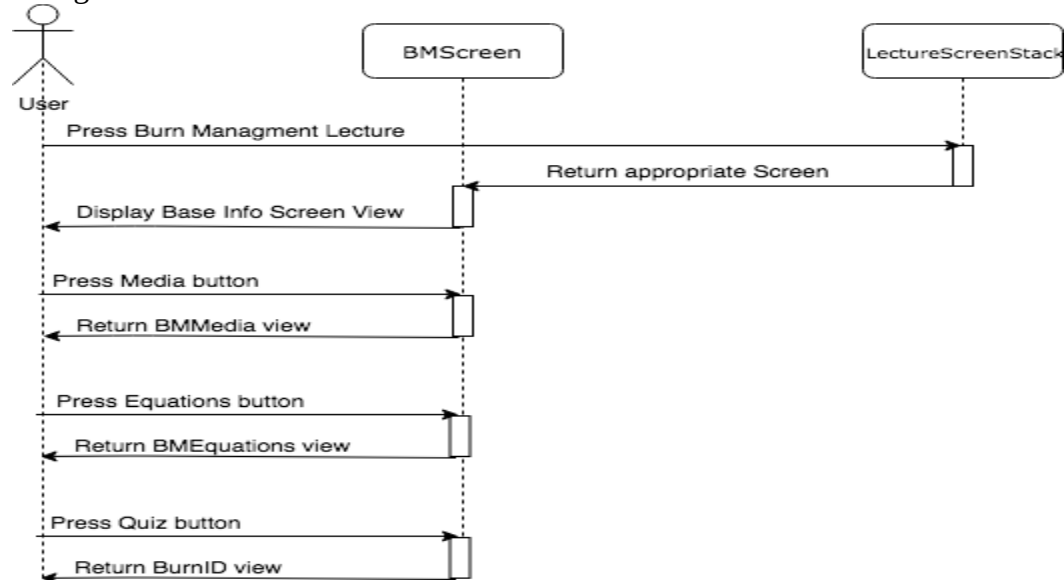
SEQ_006

Using bottom tab navigator



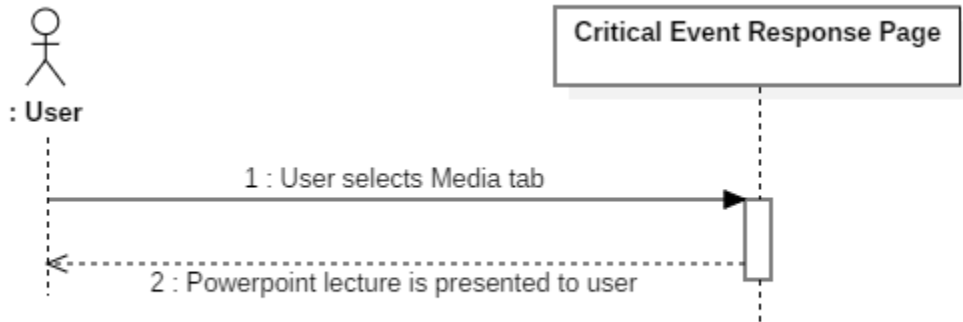
SEQ_007

Navigate burn lecture.



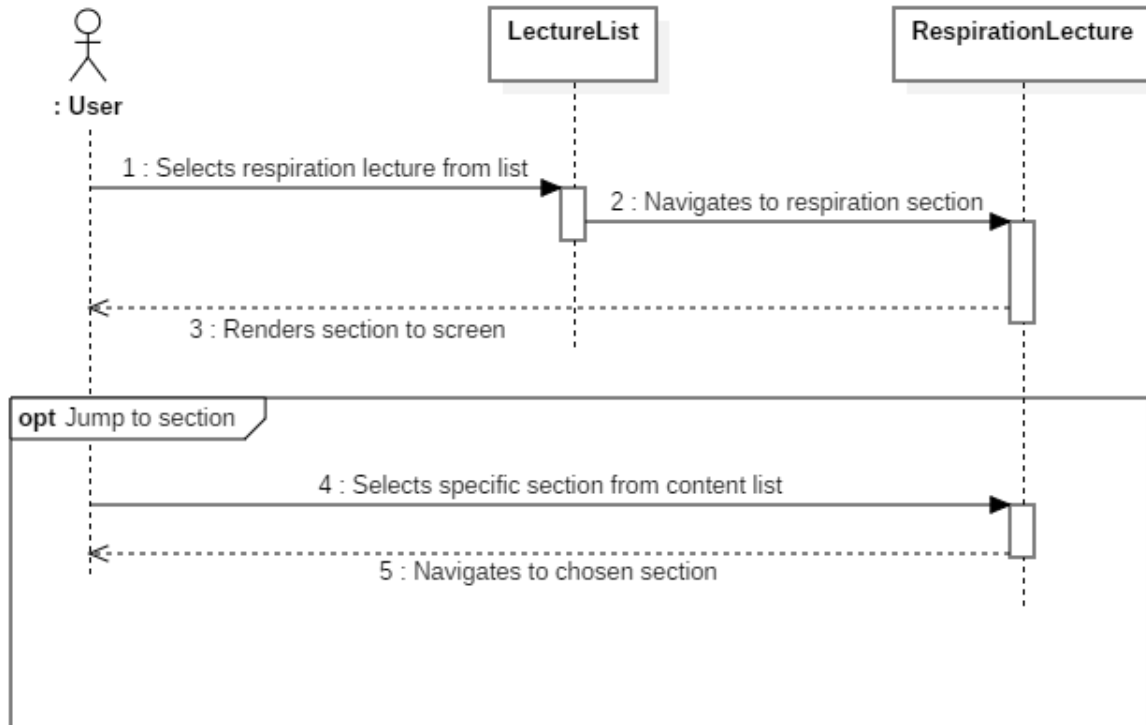
SEQ_008

Navigate to critical event response page



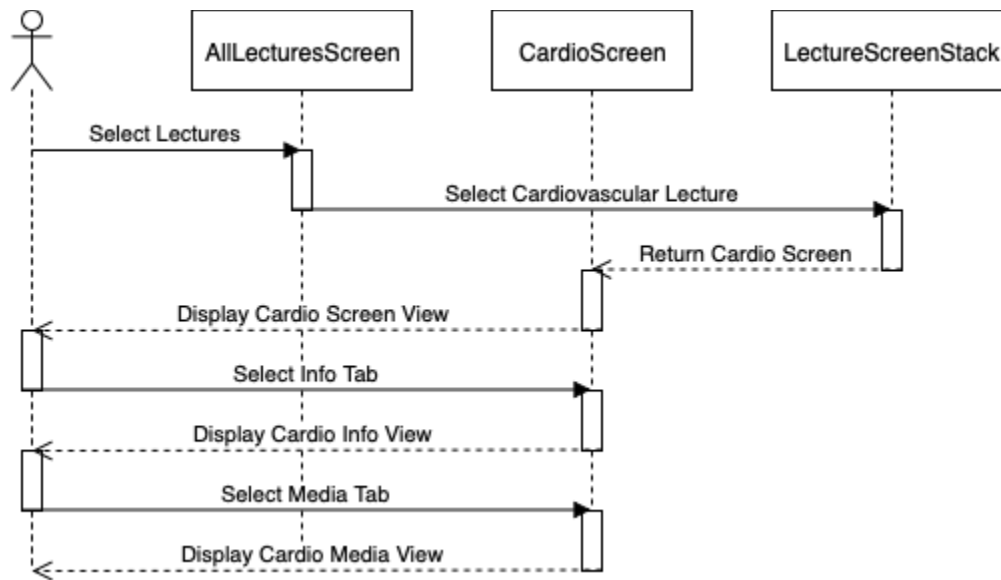
SEQ_009

Navigate to respiration lecture page



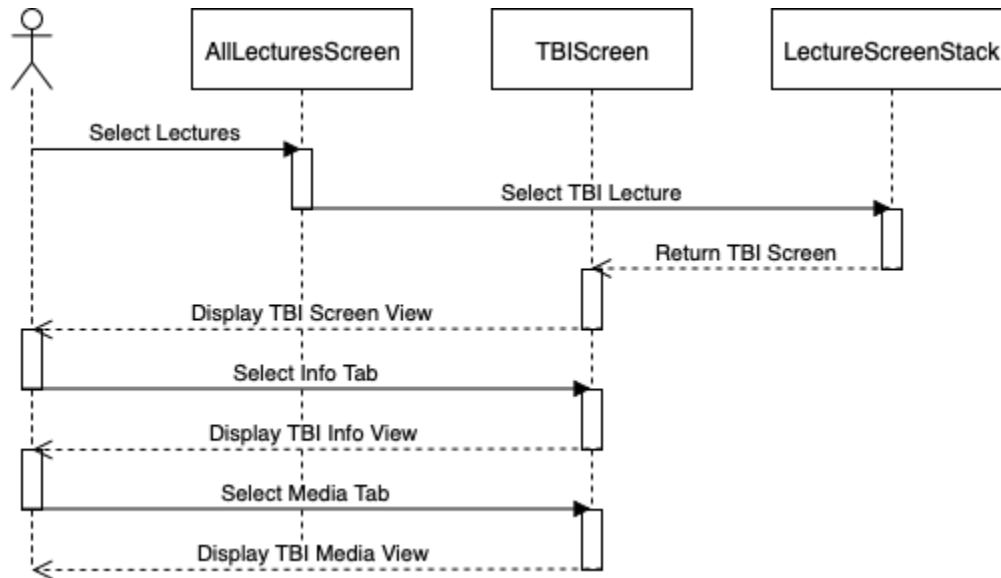
SEQ_010

Navigate to cardiovascular lecture page



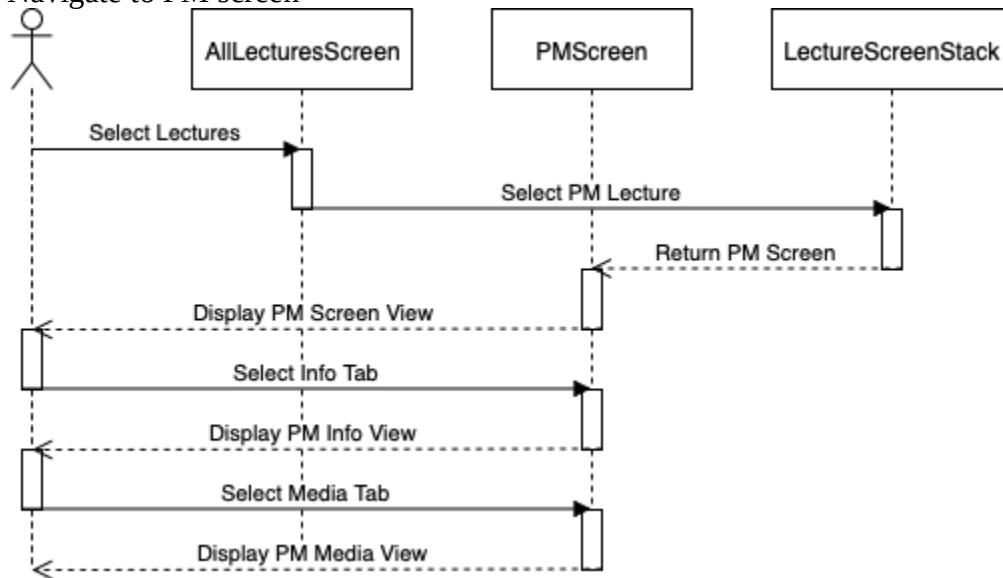
SEQ_011

Navigate to TBI screen



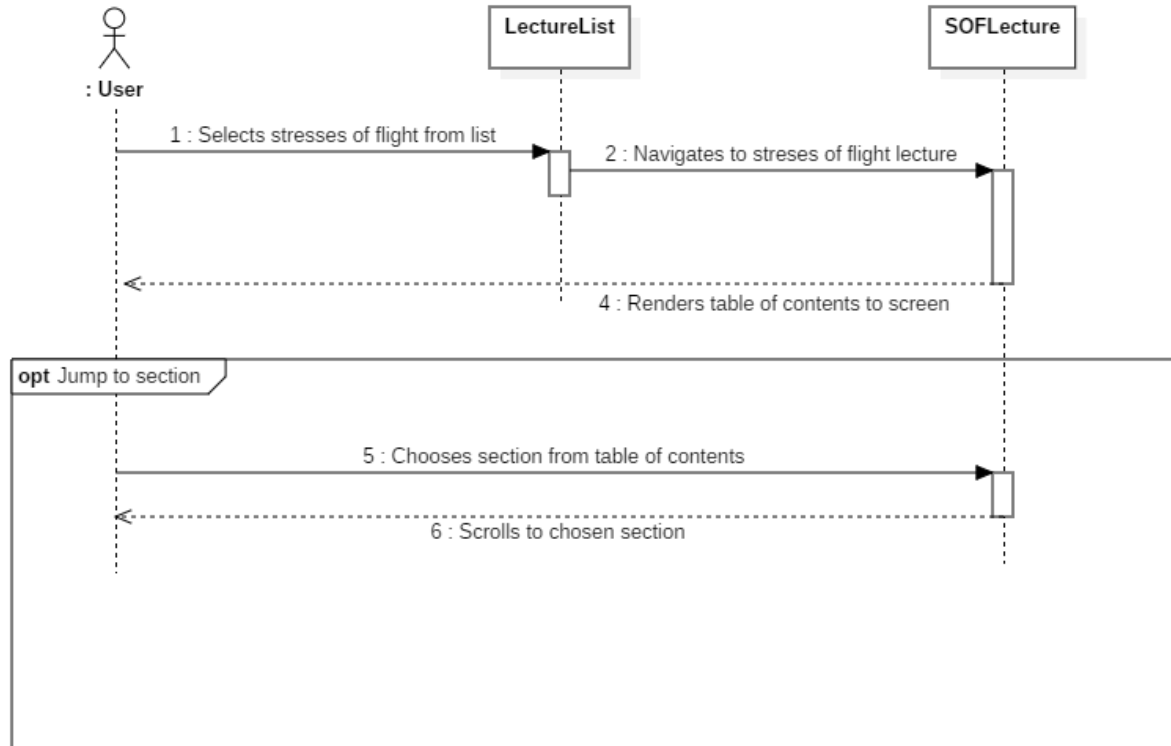
SEQ_012

Navigate to PM screen



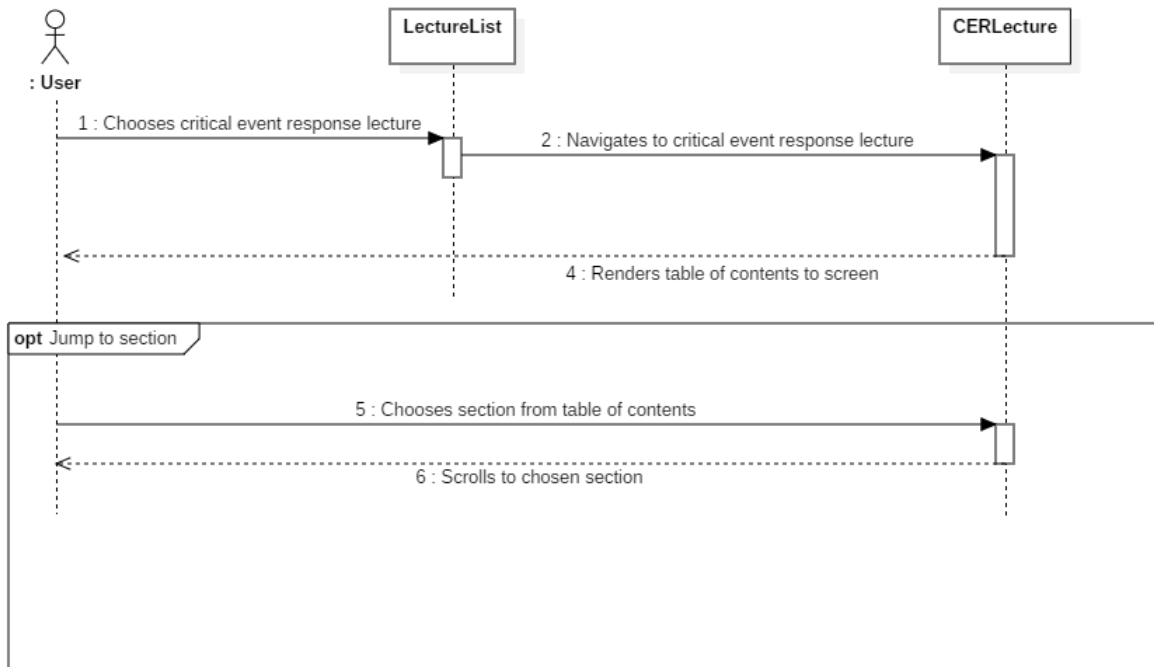
SEQ_013

Navigate to SOF lecture



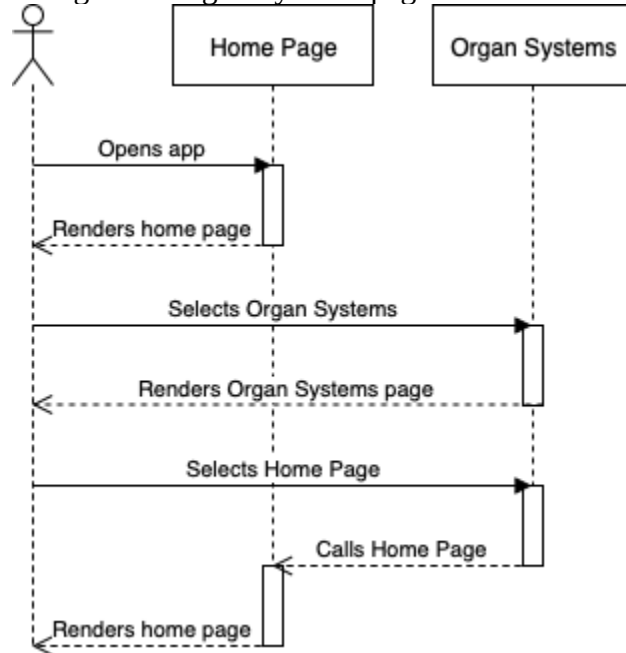
SEQ_014

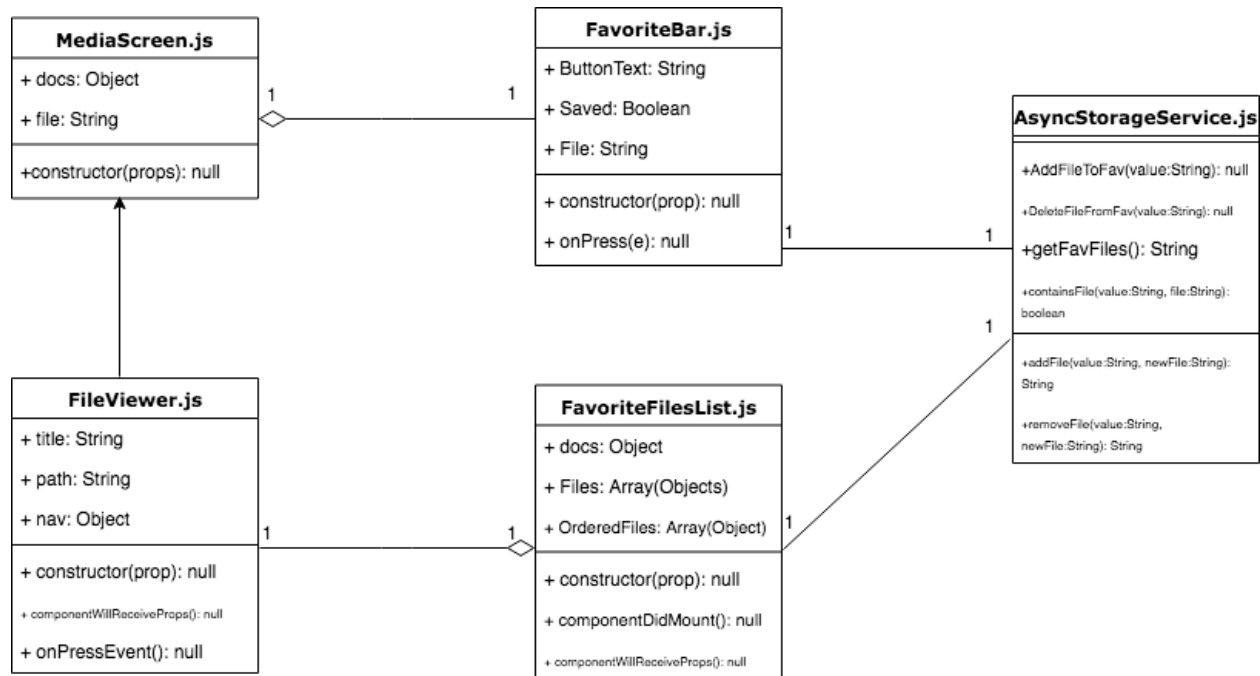
Navigate to CER lecture



SEQ_015

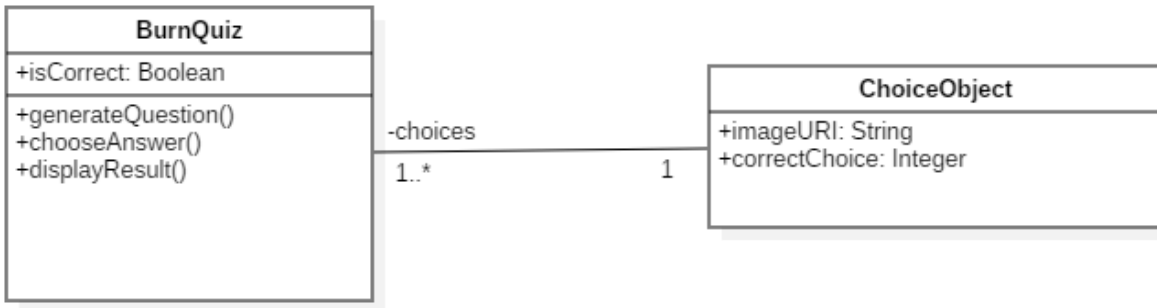
Navigate to Organ Systems page



Class Diagrams
CD_001

CD_002

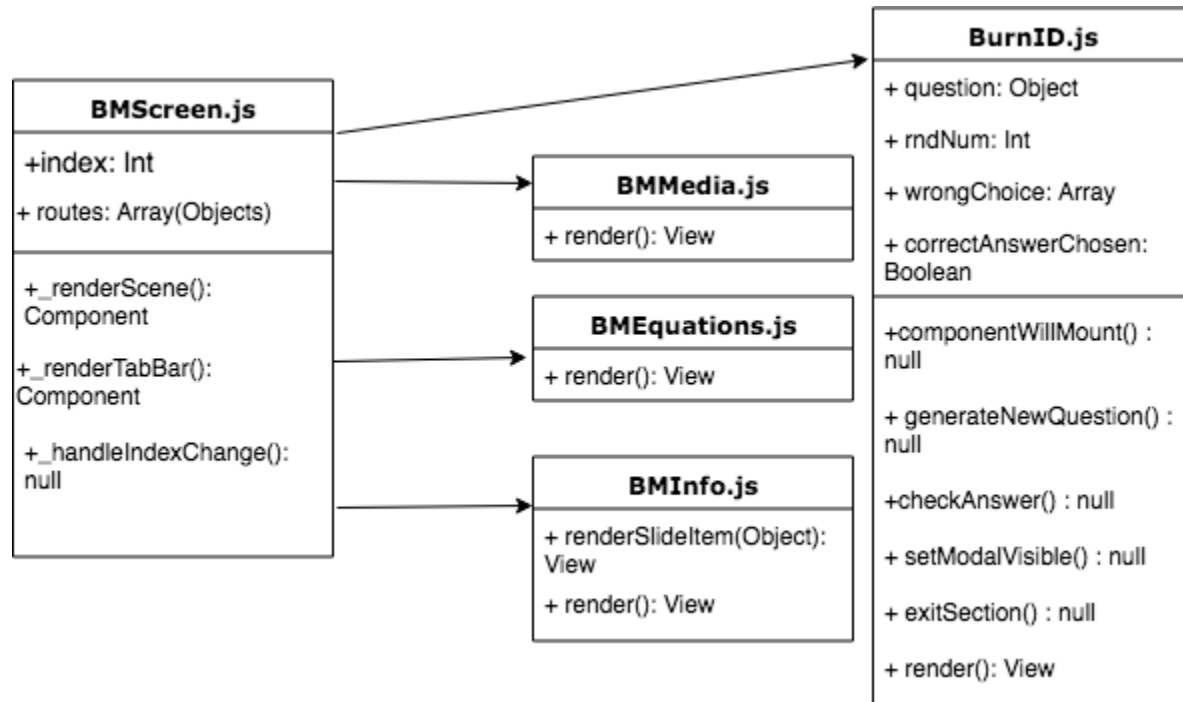
GDrive Helper
-apiKey: String -jwt: String -requestResult: JSON
+generateJWT() +requestFiles() +parseResults() +generateListing()

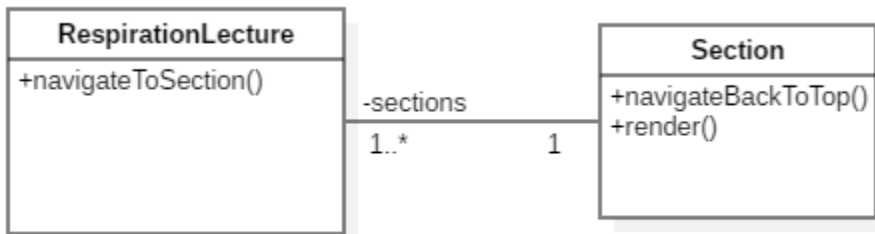
CD_003

CD_004

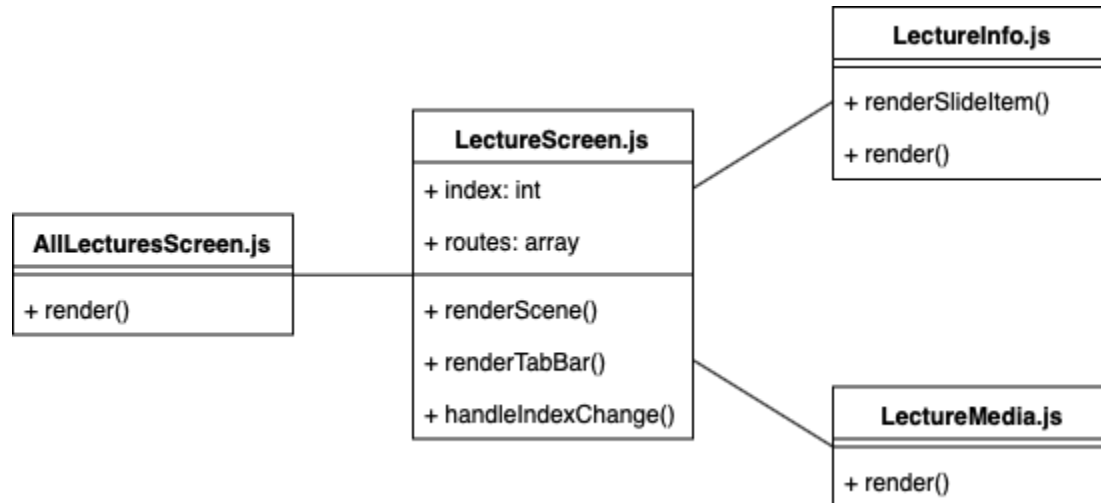
Critical Event Response Page
-media: Array<<String>> -currentLocation: Integer
+navigateTo() +openMedia()

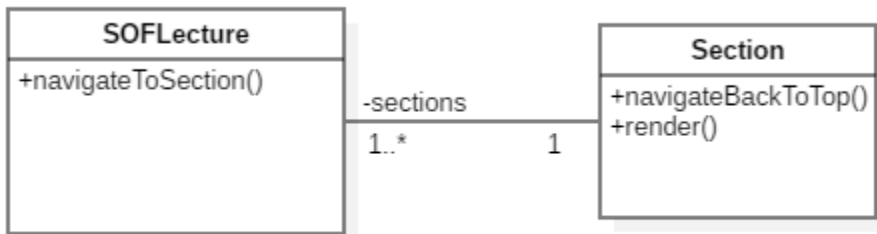
CD_005

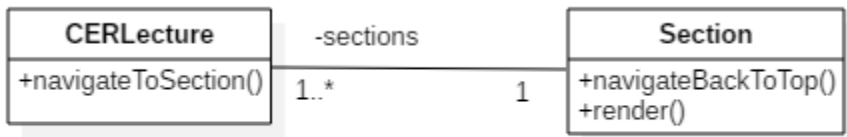


CD_006

CD_007

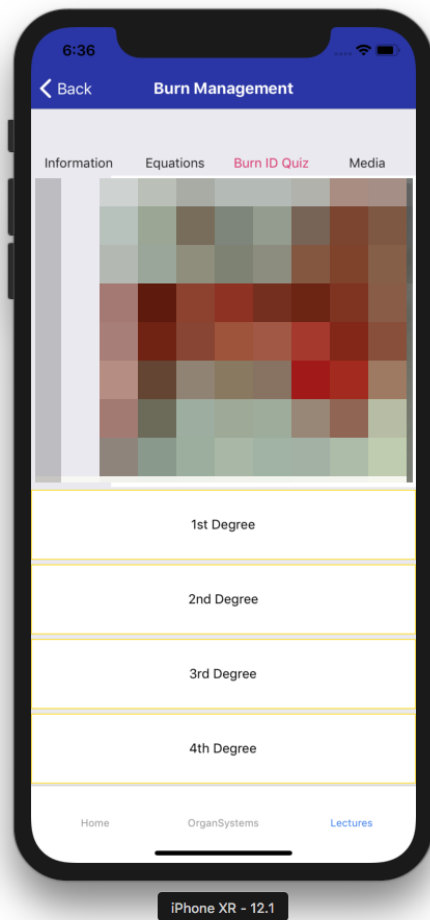


CD_008

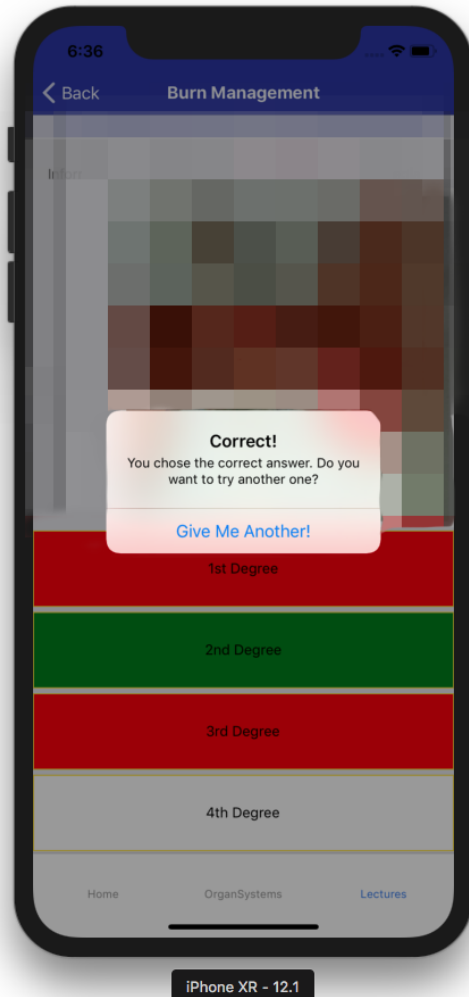
CD_009

Appendix B - User Interface Design

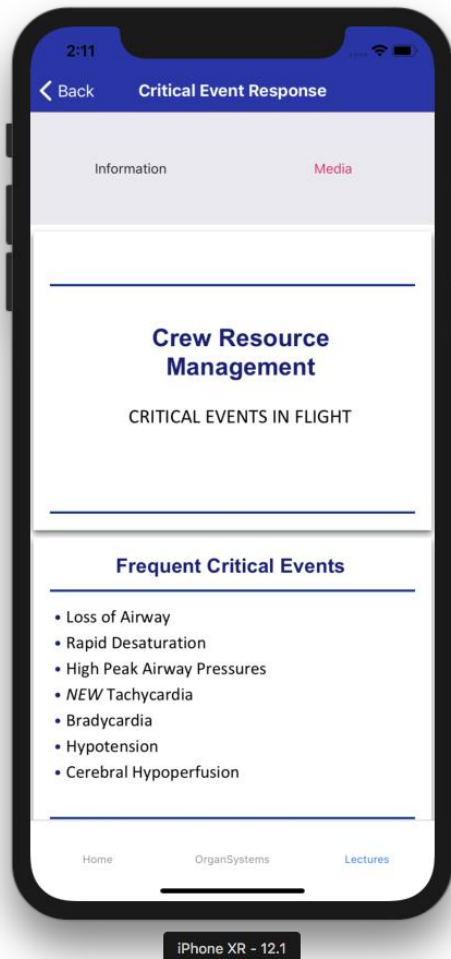
UI_001



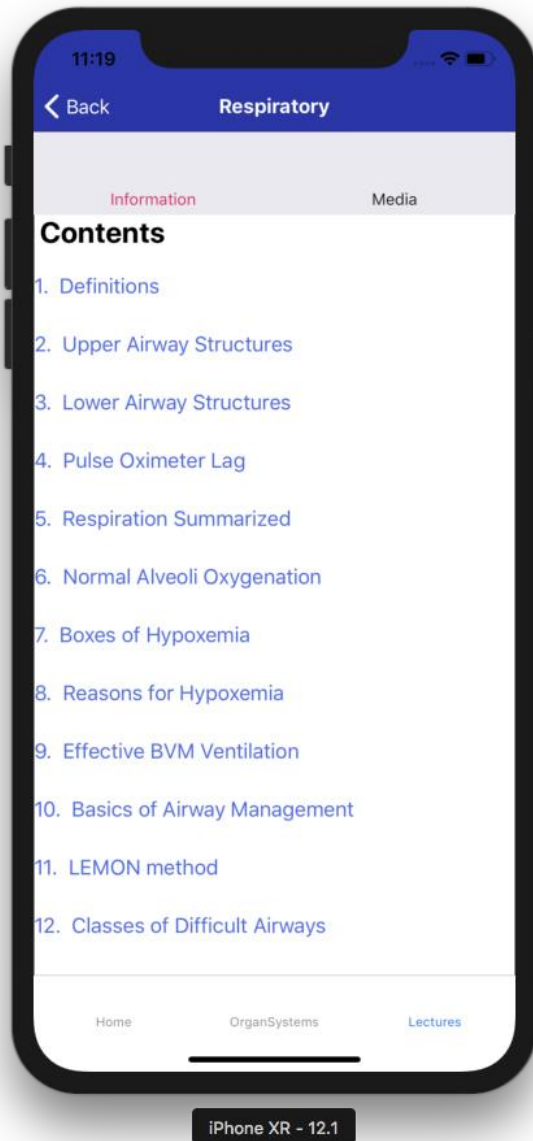
UI_002



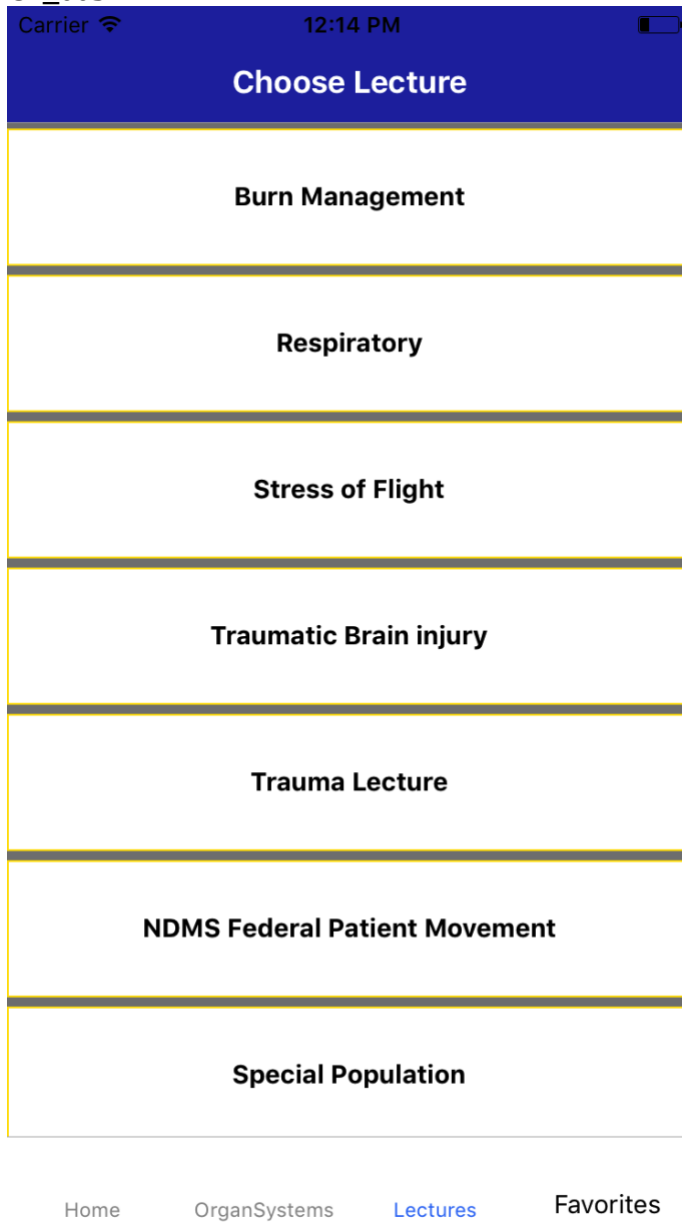
UI_003



UI_004



UI_005



UI_006

Carrier
12:14 PM

Back
Burn Management

Information
Equations
Burn ID Quiz
Media

What will be covered:

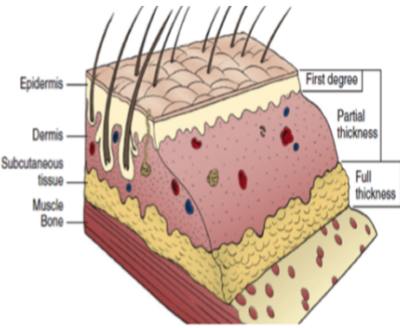
1. Diagnosis
2. Classification
3. Initial Evaluation
4. Secondary Evaluation
5. Special Situations

Degrees:

- 1st - Surface
- 2nd - Vessels
- 3rd - Adipose & Nerves
- 4th - Muscle and Bone

2nd/3rd Degree Burns:

- Dermis is where the blood vessels course
- Damage to blood vessels is what makes burns a systematic disease



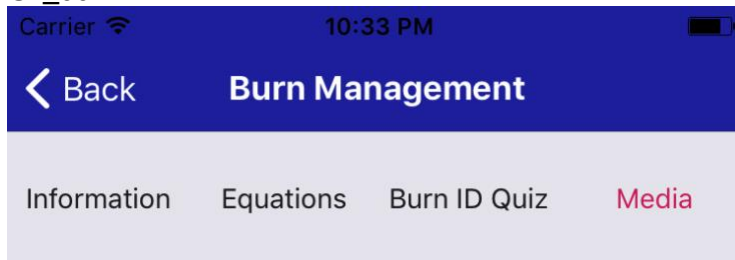
Burn at the skin level and beyond

Injury occurs at time of contact with heat

- Heat exposure kills cell
- Denaturation of protein in the dermis
- Micro-Vascular damage → clotting → ischemia of the surrounding tissue
- Tissue damage → inflammatory cytokines

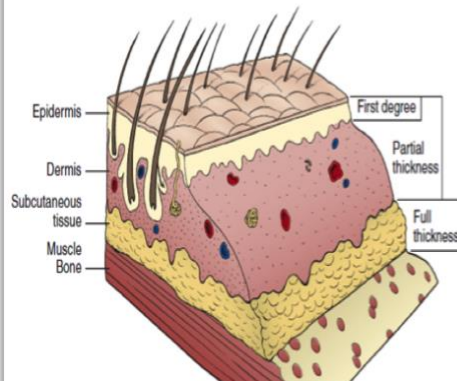
Home
OrganSystems
Lectures
Favorites

UI_007



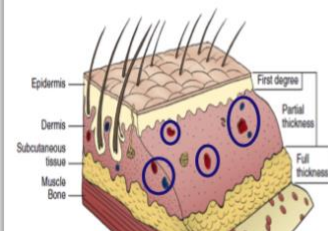
Saved!

Why degree matters?



- The deeper the burn—the more structures that are damaged
- 1st-Surface
- 2nd-Vessels
- 3rd-Adipose & nerves
- 4th-Muscle and bone

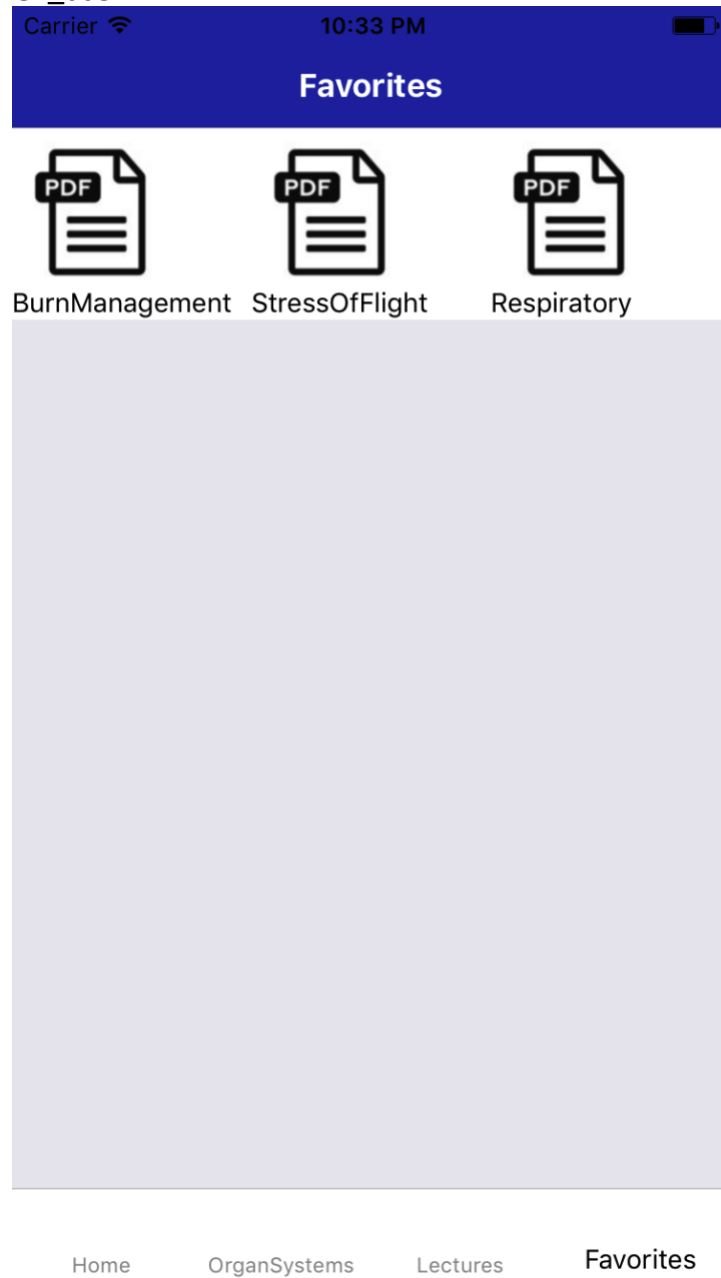
2nd/3rd Degree Burns



- Dermis is where the blood vessels course
- Damage to blood vessels is what makes burns a systemic disease
- 1st Degree burns don't

[Home](#)[OrganSystems](#)[Lectures](#)[Favorites](#)

UI_008

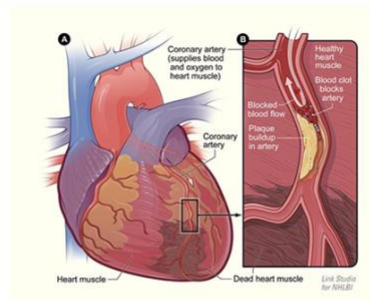


UI_009

< Back

Cardiovascular***Cardiovascular Disease:
Mission Planning***

- Guidelines assume cath/CABG available
In Air Transport, they often aren't!
- Appropriate workup and management been accomplished?
- What complications do I need to plan for?
- What medications do I need to get before takeoff?

Pathophysiology

HOME



ORGAN SYSTEMS



PAGE 3



PAGE 4

UI_010

< Back **Patient Movement**

Aeromedical Considerations for Patients with Neurologic Injuries



TBI Classification

Glasgow Coma Scale (GCS)

- Best score for intubated patient is 4T6 = 11T
- GCS<9 = Intubate before flight
- Indicator of severity of injury
 - 3 to 8 (severe)
 - 9 to 12 (moderate)
 - 13 to 15 (mild)

	Eye	Verbal	Motor
1	None	None	Flaccid
2	With pain	Incoherent	Extension
3	To verbal	Mumbles	Flexion
4	Spontaneous	Confused	Withdraws
5		Oriented	Localizes
6			Follows commands



HOME



ORGAN SYSTEMS

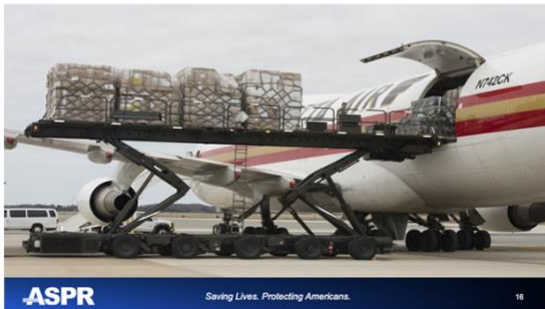


LECTURES



FAVORITES

UI_011

[< Back](#) **Patient Movement****Federal Patient Movement**

- Progression through 3 – Levels
 - Local
 - Day to day operations, local EMS dispatch, patient tracking by EMS
 - State
 - Support local requests, State EOC, Centralized coordination
 - National FEMA Ambulance Contract
 - 300 ground ambulances, rotary & fixed wing aircraft, paratransit
 - Federal
 - Focus is on "worst case scenario" where state and local medical responders are overwhelmed



HOME



ORGAN SYSTEMS



LECTURES



FAVORITES

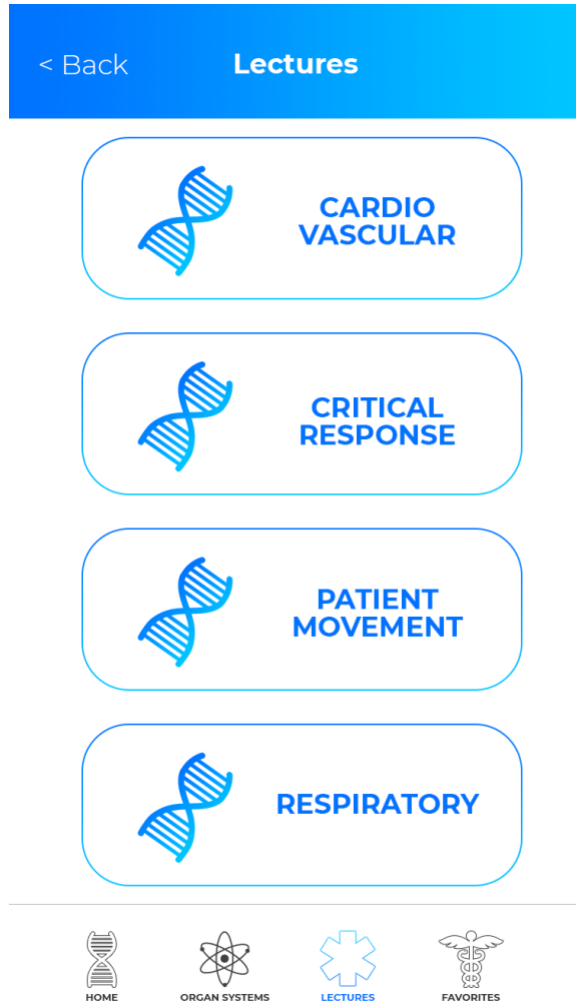
UI_012



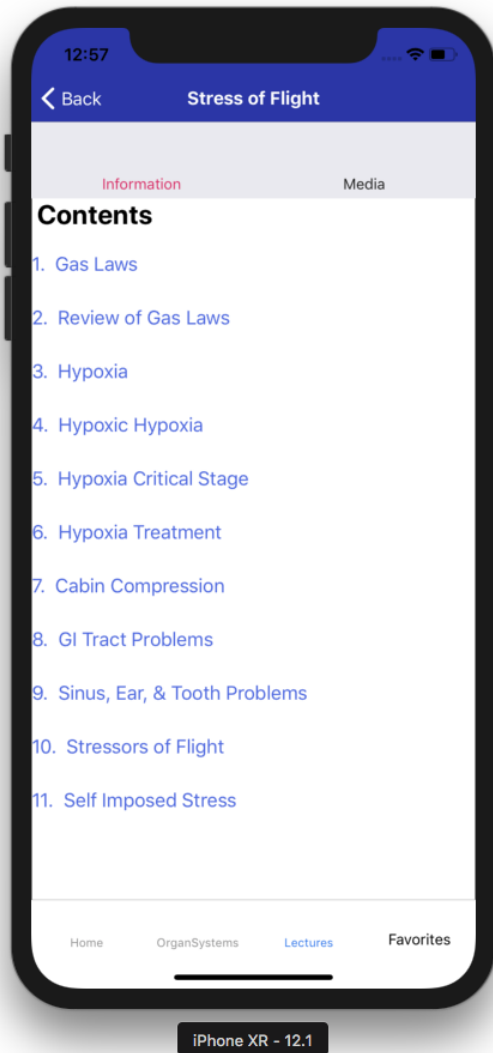
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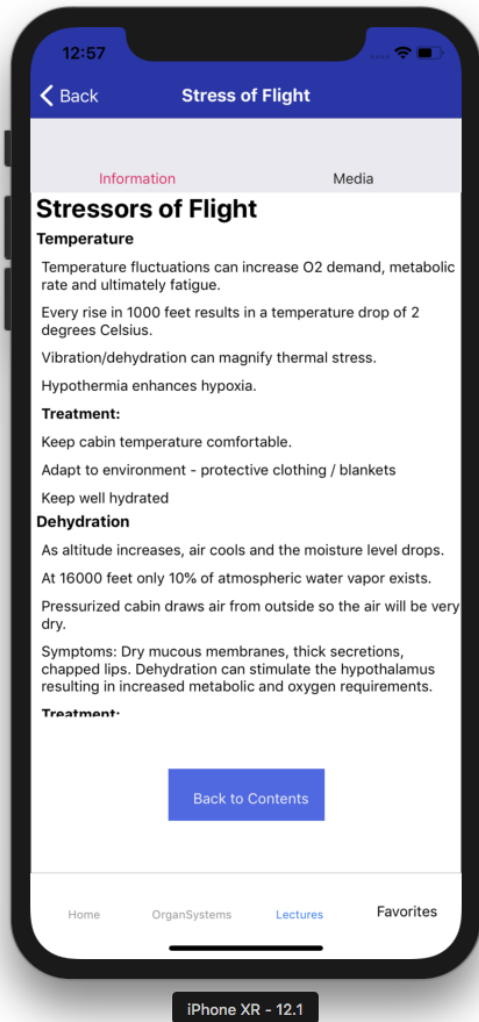
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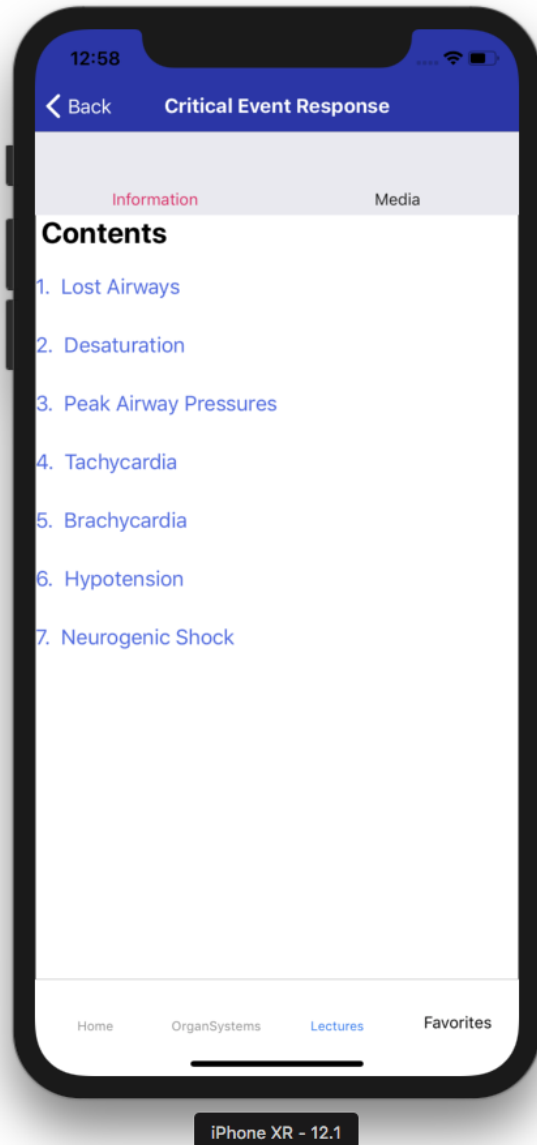
UI_015



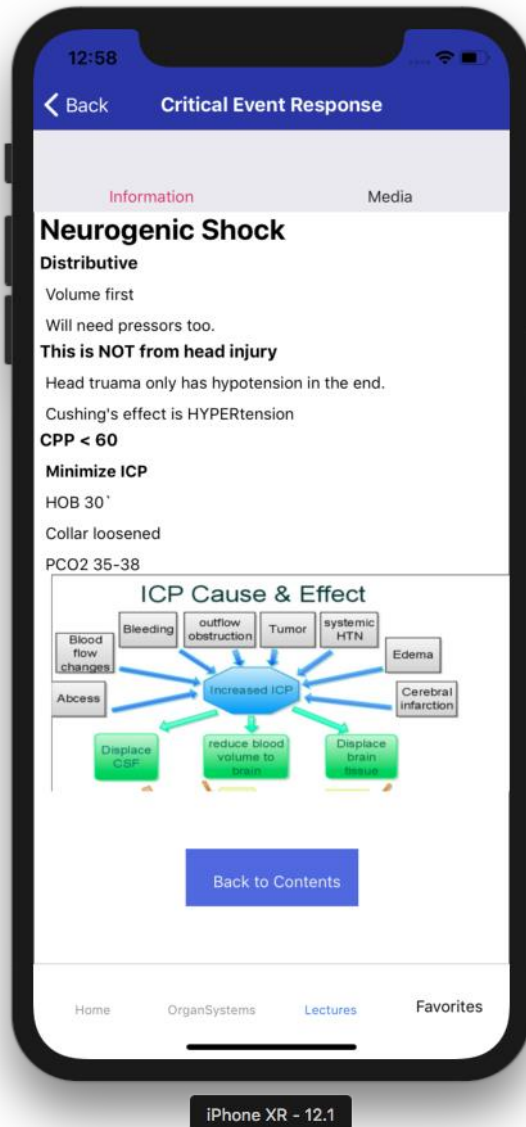
UI_016



UI_017



UI_018



Appendix C - Sprint Review Reports

Sprint 1

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia

Start time: 12:30:00 P.M.

End time: 1:45:00 P.M.

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

No User Stories Were Selected to work on during this sprint as we needed the time to do a complete feasibility study and further learn what our product owners wanted by observing a classroom session.

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

Sprint 2

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa Garcia, Robin Yang, Bridget Pelaez

Start time: 11:00 a.m.

End time: 11:45 a.m.

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

- User Story AEVA-27 - Implement navigation of Organ Systems
- User Story AEVA-30 - Deliver content from google drive
- User Story AEVA-62 - Create UI mockup for application

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

None

Sprint 3

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa Garcia, Bridget Pelaez, Robin Yang

Start time: 2:00 P.M.

End time: 2:35 P.M.

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

- User Story AEVA-32 - Create interactive quiz for burn management
- User Story AEVA-33 - Create lecture overview page
- User Story AEVA-4 - Organize resources by lecture
- User Story AEVA-56 - Create graphical assets for app
- User Story AEVA-58 - Create user interface for home page
- User Story AEVA-59 - Create user interface for organ systems page

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

- None

Sprint 4

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa Garcia, Robin Yang

Start time: 2:00 p.m.

End time: 2:35 p.m.

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

- AEVA-34 - Create page for Critical Event Response powerpoint
- AEVA-35 - Create page for Cardiovascular lecture powerpoint
- AEVA-36 - Create page for Respiratory powerpoint

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

- None

Sprint 5

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia, Bridget Paez

Start time: 3:00 p.m

End time: 3:45 p.m.

After a show and tell presentation, the implementation of the following user stories were accepted by the product owners: No user stories were fully completed.

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

- User Story AEVA-37 - View information for Respiration Lecture
- User Story AEVA-38 - View information for Stresses of Flight lecture
- User Story AEVA-39 - View information for Critical Event Response lecture
- User Story AEVA-40 - View information for Burn lecture
- User Story AEVA-41 - View information for Trauma Lecture
- User Story AEVA-42 - View information for Special Population lecture
- User Story AEVA-43 - View information for Cardiovascular lecture
- User Story AEVA-44 - View information for Traumatic Brain Injury lecture
- User Story AEVA-55 - View information for Patient Movement lecture

Sprint 6

Attendees: Jake Lopez, Alvaro De Castro, Cesar Villa-Garcia, Bridget Paez

Start time: 3:00 p.m

End time: 3:45 p.m.

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

- User Story AEVA-37 - View information for Respiration Lecture
- User Story AEVA-38 - View information for Stresses of Flight lecture
- User Story AEVA-39 - View information for Critical Event Response lecture
- User Story AEVA-40 - View information for Burn lecture
- User Story AEVA-41 - View information for Trauma Lecture
- User Story AEVA-42 - View information for Special Population lecture
- User Story AEVA-43 - View information for Cardiovascular lecture
- User Story AEVA-44 - View information for Traumatic Brain Injury lecture
- User Story AEVA-55 - View information for Patient Movement lecture

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

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

Installation/Maintenance

In order to install the application for development purposes there are a few prerequisite software that must be installed.

1. Git - Git is necessary for cloning the repository as well as making commits. Git can be found at <https://git-scm.com/>.
2. NodeJS - NodeJS is the backbone of the application and must be installed in order to run the application. This can be found at <https://nodejs.org/en/>.
3. Yarn - Yarn is a package manager alternative for NodeJS. It is needed to install all necessary dependencies for the application. This can be found at <https://yarnpkg.com/en/>.
4. **(OPTIONAL)** Expo - Expo is a tool which allows you to execute the application on a physical mobile phone. More information can be found at <https://expo.io/>.
5. **(OPTIONAL)** XCode - XCode is necessary if you wish to run the application using an iOS simulator. Note that this is only available on Mac platforms. XCode can be found in the iOS App Store on Mac Devices.
6. **(OPTIONAL)** Android Emulator / Android Studio - This is used to run the application on a simulated Android environment. You can find more information on this at <https://developer.android.com/studio/>.

Once all the prerequisite software has been installed you may now perform the following steps:

1. Clone the repository - The repository can be cloned using git from the following url : <https://sp-jira.cis.fiu.edu:7443/scm/aeva/aeva-mobile-app.git>
2. Once the repository has been cloned you may now navigate to the directory with your terminal / command prompt of choice.
3. Once inside the repository execute the command “ yarn install “.
4. Once the command finishes running you may now run the project by executing “ yarn start “.
5. Afterwards you will be presented with several options for running the application.

Shortcomings/Wishlist

Organ System Content

We would've liked to also implement all the organ systems into the application, showing a diagram of the system and providing content for each organ. This would help to further expand the knowledge base of content for students and professionals using the application. It could've also led to more interactive content in the application.

User Profile

We would've liked to have developed user-centric functionality, so that a user is able to register and create a profile with their personal information. They would then be able to save their favorite documents and searches under their profile. Users could potentially also identify each other and even interact through a messaging component.

Search

We would've liked to implement a search functionality, so that the user can simply write the name of the lecture they're looking for in the search bar and find it. This would make for even quicker access to the content during times when first responders need it.

Dosing Calculator

We would've liked to implement a dosing calculator component, in order to provide that functionality within the application to the students and first responders. This would aid in determining daily doses of medication to the patients that are being taken care of.

REFERENCES

[1] Florida International University - Academy for International Disaster Preparedness. (n.d.). Retrieved December 7, 2018, from <https://aidp.fiu.edu>

[2] React Native Documentation. (n.d.). Retrieved December 7, 2018, from <https://facebook.github.io/react-native/docs/getting-started.html>