# **WebApp Project Requirements Specifications**

**Assessment weightage (10%)**

**Due on: Term 3B Week 6, 4 Sep 2020**

## **Problem Statement**

When new students and staff join the school, they will not be familiar with the various rooms and facilities in the campus. They will also not be able to navigate from one place to another. The school will usually include a tour of the campus compound during student and staff orientation programme. The objective of the project is to build a web application that will allow a virtual tour of the campus to be conducted anytime.

## **Project Requirements**

**Visitor Use Case**:

The web app will include a landing page where visitors will be able to view a list of locations and select one of these locations to begin the virtual tour. The starting location must be easily identified and accessible to the visitors when they entered the school campus. The locations cab be indoor or outdoor.

After a location is selected, the web app will display a more detail description of the room and at least one image of the location. There will also be a list of exit points that will allow the visitor to navigate to another location.

**Web Administrator Use Case:**

The web app will allow the web site administrator to create new locations to be added to the list of existing locations. After the new location is added, the administrator will need to update the location with the exit points so that the user can navigate to another location. Other locations must also be updated with exit points that can lead them to the new location.

**Baseline Requirements**

* Minimum 3 locations
* Each location must have at least 1 exit point that will link it to the next location.
* Each location must include at least 1 image.
* Produce a document for end user testing giving a detail walk through on how to test all the functionalities of your web app.

Example: Walkthrough for Adding a new location

1. Click on the Manage Locations menu item
2. Enter the respective data for new location in the form
3. Select and upload an image file
4. Click Submit

## **Marking Rubric**

**Front End Code (20)**

Note: You may use an external CSS framework but marks for CSS will be awarded only for definitions that are created by you.

|  |  |  |  |
| --- | --- | --- | --- |
| HTML | CSS | Layout | Additional features |
| * Correct use of html elements to create a structure for the contents. * Use of appropriate initialising elements. * Use of external style sheet.   [6] | * Correct use of selectors to style different parts of the html document * Appropriate use of properties to create a consistent visual presentation   [6] | * Contents are visible and placed in appropriate location in the web page * Navigation from page to page   [4] | * Any features that provide enhanced user experience. * Web app must be responsive to client device   [4] |

**Backend Code (80)**

|  |  |  |  |
| --- | --- | --- | --- |
| Folder organisation | Function modularity | Error handling | Jinja templates |
| * Correct folders and placement of files * Correct way of referencing file paths   [4] | * Appropriate use of view functions * Appropriate use of helper functions   [4] | * Use of exception handling * Use of validation code   [4] | * Use of correct jinja parameters   [2] |
| SQL | Functionality | Extension features |  |
| * Correct use of SQL statements * Correct design of database * 3NF schema   [20] | * Documentation on End User Testing as described in baseline requirements.   The following functions worked according to what is described in the documentation.   * View locations * Navigate from place to place * Add locations * Edit Locations * Add exit Points * Image upload   [40] | * Appropriate additional features that are not in the use cases specified in the project requirements   [6] |  |