# **WebApp Project Requirements Specifications**

**Assessment weightage (10%)**

**Due on: Term 4**

## **Problem Statement**

Design and implement a web App that allows a user to accomplish one or more tasks. The task must be useful and appropriate to be deployed as a Web Application

**To be submitted by end of Term 2 week 9.**

Example of Use Case:

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**

1. Dynamic contents.
2. Contents must be stored, retrieved, update and delete in a sqlite database
3. Web portal must have a navigation system that allows a user to navigate to the different contents
4. Web Contents must meet the usability design principles.

## **Marking Rubric**

**Front End**

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

| HTML/CSS | Layout/Navigation | Additional features |
| --- | --- | --- |
| * Correct use of html elements to create a structure for the contents. * Use of appropriate initialising elements. * Use of internal/external style sheet. * Correct use of selectors to style different parts of the html document * Appropriate use of properties to create a consistent visual presentation   [1] | * Contents are visible and placed in appropriate location in the web page * Navigation from page to page * Consistent   [2] | * Any additional features that provide enhanced user experience.   Example   * Interactive UI experience. * Web app must be responsive to client device * Use of an external CSS framework   [1] |

**Back End**

| Data management | Function modularity | Error handling | Functionality | Hosting |
| --- | --- | --- | --- | --- |
| * Correct folders and placement of files * Correct way of referencing file paths * Correct use of SQL statements * Correct design of database * 3NF schema   [2] | * Appropriate use of view functions * Appropriate use of helper functions   [1] | * Able to recover from runtime errors and allow user to continue   [1] | * User must be able to successfully perform the tasks as provided by the Web App   [1]  [1] | * Able to host the web app on a hosting platform, example PythonAnywhere * Platform must allow teacher to test functionality and view the source code (html,css,python)   [1] |