**Project Plan**

**CMSC 495 #6380**

**10/11/20**

**Group #5**

**Members:**

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Revisor** | **Changes made** |
| 1.0 | 8/29/20 | - | Initial Revision |

**1. Requirement Specifications**

The project’s topic is a student management application, to be used by a Martial Arts school. The application’s purpose is to create and maintain a student database to assist with tracking and visualizing student data and attendance. Project Requirements are detailed in a separate document.

**2. System Specification**

**A. Development Platform**

The application will be developed using the Windows 10 operating system. The minimum hardware requirements for Windows 10 are as follows:

* **Processor:** 1 gigahertz (GHz) or faster processor or SoC
* **RAM:** 1 gigabyte (GB) for 32-bit or 2 GB for 64-bit
* **Hard disk space:** 16 GB for 32-bit OS or 20 GB for 64-bit OS
* **Graphics card:** DirectX 9 or later with WDDM 1.0 driver
* **Display:** 800 x 600

The application will be developed and hosted with Amazon Web Service (AWS) cloud computing technologies. The AWS management console supports the following browsers. An internet connection is required:

* **Google Chrome:** Latest three major versions
* **Mozilla Firefox:** Latest three major versions
* **Microsoft Edge:** Latest three major versions
* **Microsoft Internet Explorer:** 11
* **Apple Safari for macOS:** Latest two major version

The following AWS services will be used and must be supported and funded with an AWS account:

* **RDS MySQL:** Database instance
* **Cloud 9:** Developer IDE and EC2 server instance

**B. Operating Platform**

The application will be accessed via the internet using a PC running the Windows 10 operating system. The minimum hardware requirements for Windows 10 are as follows:

* **Processor:** 1 gigahertz (GHz) or faster processor or SoC
* **RAM:** 1 gigabyte (GB) for 32-bit or 2 GB for 64-bit
* **Hard disk space:** 16 GB for 32-bit OS or 20 GB for 64-bit OS
* **Graphics card:** DirectX 9 or later with WDDM 1.0 driver
* **Display:** 800 x 600

The application can be accessed through the following supported browsers. An internet connection is required:

* **Google Chrome:** Latest three major versions
* **Mozilla Firefox:** Latest three major versions
* **Microsoft Edge:** Latest three major versions
* **Microsoft Internet Explorer:** 11

**3. Software Management**

The application code shall be hosted in a code repository using GitHub. The repository can be accessed at <https://github.com/UMGC-CMSC-495-6380-Group5/Capstone.git>

**4. Project Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Duration** | **Start Date** | **End Date** | **Personnel** |
| Project Requirements | 7 days | 8/26 | 9/1 | Team |
| Project Analysis | 7 days | 9/2 | 9/8 |  |
| Project Design | 7 days | 9/9 | 9/15 |  |
| Project Test Plan | 7 days | 9/16 | 9/22 |  |
| Implementation and testing | 14 days | 9/23 | 10/6 |  |
| Final Deliveries | 7 days | 10/7 | 10/13 |  |