**Project Requirements**

**CMSC 495 #6380**

**10/11/2020**

**Group #5**

**Members:**

**David Roberts**

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**Revision History**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Revisor** | **Changes made** |
| 1.0 | 8/29/20 | - | Initial Revision |
| 1.1 | 9/20/20 | Tiago Feitosa | Simplification, Reordering and Consolidation of features of project requirements, after analysis of subsystems. |
| 1.2 | 9/22/20 | Nicholas Crown | Added logout and attendance requirements. |
| 1.3 | 9/22/20 | David Roberts | Added class creation and modification requirement. |
| 1.3.1 | 9/22/20 | Nicholas Crown | Removed redundant requirements and added headers to document. |
| 1.4 | 10/11/20 | Nicholas Crown | Added requirement 15. |

**Project Topic**

This project 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.

**Project Requirements**

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| **Requirement #** | **Description** |
| 1 | The system shall pull information and store information about account, classes, calendar and login users from and to a database, respectively. |
| 2 | The system shall authenticate a user before displaying the main interface |
| 3 | The system shall redirect the user to the calendar as the main interface |
| 4 | The system shall display a monthly calendar, showing number of total active students, number of new students in a month, number of student dropouts in a month, and active classes. |
| 5 | The system shall allow the user to change the month of the calendar to be displayed. |
| 6 | The system shall allow the user to add, delete and edit records of an account’s first and last name, belt rank, birthdate, phone number, address, Parental Control, Email, Account Type(Student or Instructor), active status, daily attendance. |
| 7 | The system shall allow the user to add, delete and edit records of a class name, date, starting time, and ending time. |
| 8 | The system shall display a list of accounts with their information such as account’s ID, first and last name, belt rank, birthdate, phone number, address, Parental Control, Email, Account Type(Student or Instructor), and active status. |
| 9 | The system shall display a list of classes with their information such as name, date, starting time, and ending time. |
| 10 | The system shall not duplicate IDs for accounts or classes. |
| 11 | The system shall allow a user to logout. |
| 12 | The system shall allow the user to take class attendance from a roster of active accounts |
| 13 | The system shall display a list of students and instructors associated to a class’s attendance. |
| 14 | The system shall allow the user to modify a class attendance record. |
| 15 | The system shall notify user when adding or modifying records if duplicate records exist. |
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