

# DESIGN DOCUMENTATION

## AAMS - Web Project 1.0

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The website is basically a connecting platform between students and instructor for mathematics and statistics courses. The instructor can form the class roster, assign assignments to students and do some data analysis on class performance. Students on the other hand can give examinations and quizzes on the system. Also they can do some data analysis for practice and generate desired statistics and reports.

Following elaborate more on the website's functionalities one by one:

#### 1) Index Page

| Index Page         |   |
|--------------------|---|
| Documentation      | User can download and view the design documentation for the website |
| Links to the pages | Login<br>Register   |

#### 2) Login Page

| Login Page |  |
|------------|--|
| Login      | User can Login using username and password |

#### 3) Register Page

| Register Page |   |
|---------------|---|
| Register      | New user can Register and create a unique username and password |

#### 4) Home Page

| Home Page          |  |
|--------------------|--|
| Documentation      | User can download and view the design documentation for the website  |
| Links to the pages | Login page,<br>Register page,<br>Upload data,<br>Download data,<br>Edit documents,<br>Data Analysis,<br>Exam Assignment and<br>Report generation |

## 5) Download Data

| Download Data      |  |
|--------------------|--|
| Type of data       | User can choose if he/she wants to download Exam, Quiz or Analysis data                |
| Format of download | User can specify if he/she wants the CSV format or XML format of data to be downloaded |
| Download           | Finally user can click on Download button to download the file                         |

## 6) Upload Data

| Upload Data          |  |
|----------------------|--|
| Type of data         | User can choose if he/she wants to upload Exam, Quiz, Analysis or Roster data  |
| Data type of columns | Default data type depending on the column data would be suggested and then the user can change it to any other data type from the website before uploading |
| Upload               | Finally user can click on Submit button to upload the file   |

## 7) Data Analysis and Report Generation

| Data Analysis and Report Generation |  |
|-------------------------------------|--|
| Select table                        | User first need to choose from drop down menu the table on which he wish to load and do analysis                           |
| Choose column                       | User will then choose the column on which he/she wants to perform analysis, from the displayed list of all numeric columns |
| Type of Analysis                    | He/she then needs to select the type of analysis needed, from the available options in the drop down menu                  |
| Perform Analysis                    | Hit submit to get the analysis result and graphs in another sheet  |

## 8) Exam/Quiz Assignment

| Exam/Quiz Assignment |  |
|----------------------|--|
| Select table         | Instructor first need to choose from drop down menu the table from which he wish to load the data for the Exam             |
| Choose column        | User will then choose the column on which he/she wants to perform analysis, from the displayed list of all numeric columns |
| Type of Analysis     | He/she then needs to select the type of analysis needed by the student, from the available options in the drop down menu   |
| Assignment Type      | Whether it is quiz or exam   |
| Assignment Number    | This mean what number in sequence is this exam or quiz for the current semester  |
| Assign exam/quiz     | Hit the submit button to assign the exam/quiz to the class   |

## 9) Edit Document

| Edit Document        |   |
|----------------------|---|
| Type of data         | User first needs to choose if he/she wants to edit Exam, Quiz, Analysis data                                      |
| Choose table         | From the displayed lists of table in the drop down menu, choose a table to edit                                   |
| Choose a row to edit | Table would be displayed on the page and user needs to select edit button in front of the row to make it editable |
| Update the changes   | Make the changes in the editable row and hot update button in front of the row                                    |
| Close and back       | Hit the close button at the top of the screen to close the view and go back to home page                          |

## PROCESS FLOW:

