

# PROJECT DOCUMENTATION

## IDS 517 Web Project

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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 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, Register page, Upload data, Download data, Edit documents, Data Analysis, Exam Assignment and 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

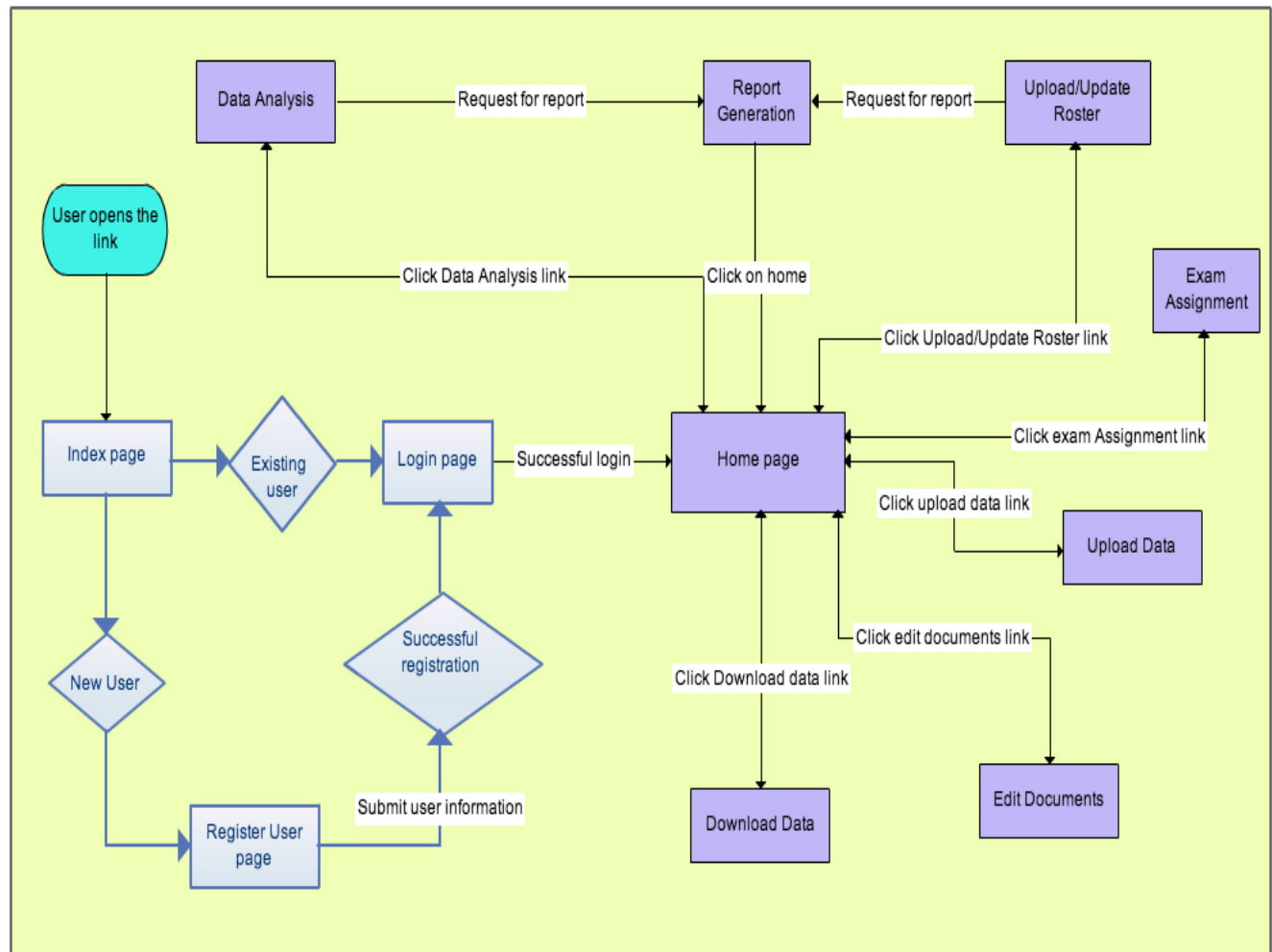
## 8) Exam/Quiz Assignment

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

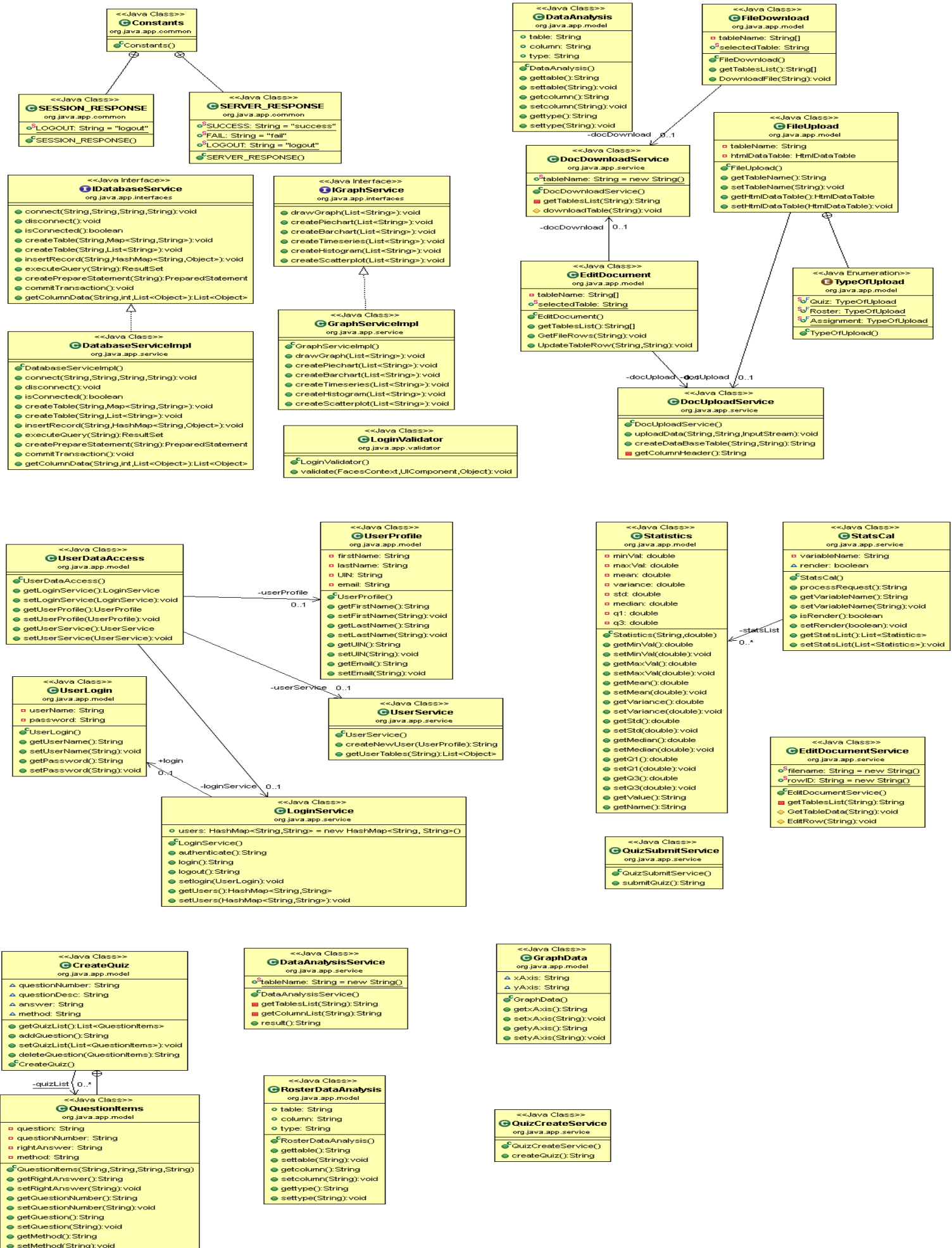
## 9) Edit Document

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



# Class Diagram



## Database Diagram

