

# University Admission System

## SRS Documentation

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# **1 Introduction**

## **1.1 Purpose**

The purpose of this document is to give detailed description of Design and Functionality of "University Admission System" Java application. It will Illustrate the purpose of the complete development User Interface and Functionality of "University Admission System".

## **1.2 Intended Audience and Use**

The Product is a Java application and it is restricted within the organization for developers, testers and project managers to understand the requirements and working specifications "University Admission System" application.

## **1.3 Scope**

The purpose of this system is to make Admission process easier for Universities and to create a convenient system for students to register for the admission process and finally update the result of selection to students.

# **2 Overall Description**

## **2.1 Product Perspective**

### **2.1.1 Student Perspective**

- Every student should be able to register bio and merit information in the registration page.
- After Selection process students will be updated with selection status.

### **2.1.2 Admin Perspective**

- Admin can register their username and password.
- Admin must be able to login and edit the number of admission slots available for each course and add time period for registration process.
- Admin must be able to edit students information.

## **2.2 Product Features**

### **2.2.1 Student Perspective**

- When the application loads student will see an image of the university that they are applying.
- Every student should see username and password for login or register.
- Every student should be able to register their details such as First Name, Last Name, Age, Mother's Name, Father's Name, Gender, Date of Birth, Registration Date, Location, Email ID, Username, Password, Contact No.
- Students will have to enter educational details such as Physics, Chemistry, Math, Biology, English, Computer Science, Total Marks.
- Students will have to select their Department of interest from total of four departments namely CS, BIO, EEE, ML.

### **2.2.2 Admin Perspective**

- Admin can register their username and password.
- Admin should see a login page to access the selection process.
- Admin must be able enter the number of admission slots for each department namely CS, BIO, EEE, ML.
- Admin must be able to add time period for selection process which will be mentioned as from and to date.
- Admin must be able to edit student information after the admission process is done and listed based on total marks.

## **2.3 User Needs**

The University has a convenient system to select students on the basis of their grades.

## **3 Operating Environment**

### **3.1 Technologies Used**

- Java
- MySQL

### **3.2 Libraries Used**

- JCalander
- JDBCCE
- MySQL Connector

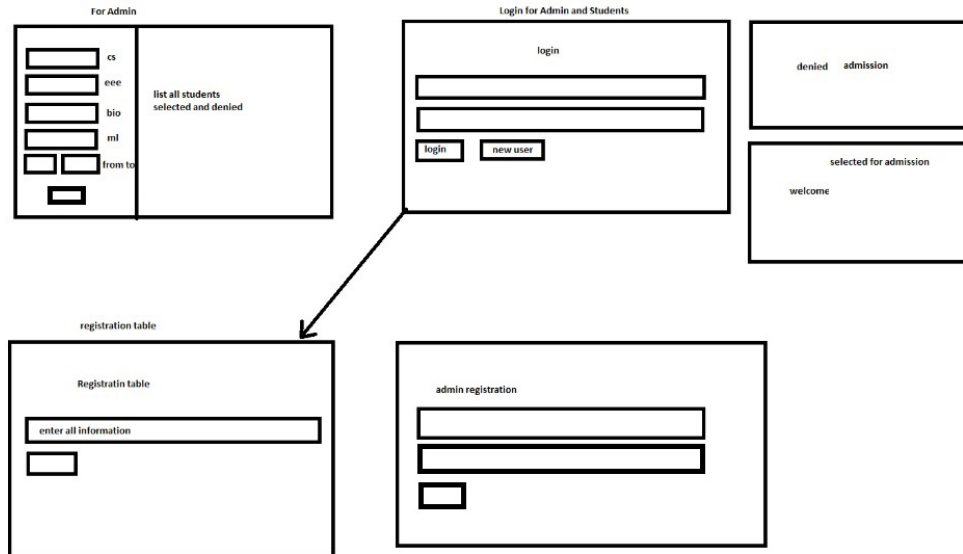
### **3.3 Development Platform**

- Eclipse
- MySQL WorkBench 8.0 CE

### **3.4 Application Platforms**

- Windows
- Linux
- Mac

## 4 Design and Implementation Constrains



The application is only specific to desktops and not for mobile devices.

## 5 Assumptions and Dependencies

Assumption is that user has a system with capable hardware and software.

## 6 Specifications

### 6.1 Minimum requirements

Platform: windows XP, 2 GB RAM, space: 3 MB

### 6.2 Recommended requirements

Platform: windows 10, 4 GB RAM, space: 3 MB

## 7 System Features and Requirements

### 7.1 Functional Requirements

#### 7.1.1 Data Base Table

| registration         |              | selection |            |
|----------------------|--------------|-----------|------------|
| id                   | int          | id        | int        |
| first_name           | varchar(20)  | selected  | varchar(1) |
| last_name            | varchar(20)  |           |            |
| age                  | int          |           |            |
| gender               | varchar(3)   |           |            |
| dob                  | varchar(10)  |           |            |
| date_of_registration | varchar(10)  |           |            |
| phone_number         | varchar(10)  |           |            |
| location             | varchar(100) |           |            |
| email                | varchar(40)  |           |            |
| username             | varchar(30)  |           |            |
| pass                 | varchar(30)  |           |            |
| father_name          | varchar(20)  |           |            |
| mother_name          | varchar(20)  |           |            |
| math                 | int          |           |            |
| physics              | int          |           |            |
| chemistry            | int          |           |            |
| english              | int          |           |            |
| computer_science     | int          |           |            |
| biology              | int          |           |            |
| total_score          | int          |           |            |
| department_name      | varchar(20)  |           |            |

| department       |             |
|------------------|-------------|
| department_id    | int         |
| faculty_incharge | varchar(20) |
| department_name  | varchar(20) |

| administrator |             |
|---------------|-------------|
| username      | varchar(20) |
| pass          | varchar(20) |

### **7.1.2 Registering Students**

- Insert data into registration table.
- All the registration data is mentioned in the above image.

### **7.1.3 Selecting Students**

- Selection table is populated using registration table with appropriate parameters.
- Parameters are: limit CS, limit BIO, limit EEE, limit ML, From and to Date.

### **7.1.4 Edit Students**

- The Student information can be updated within the program.

### **7.1.5 Declaring Selection Status and Allotting Faculty In-charge**

- Getting selection status from selection table and faculty information from department table for respective department for each student.

## **7.2 Non Functional Requirements**

### **7.2.1 Quickness**

- GUI should respond fast to user input.

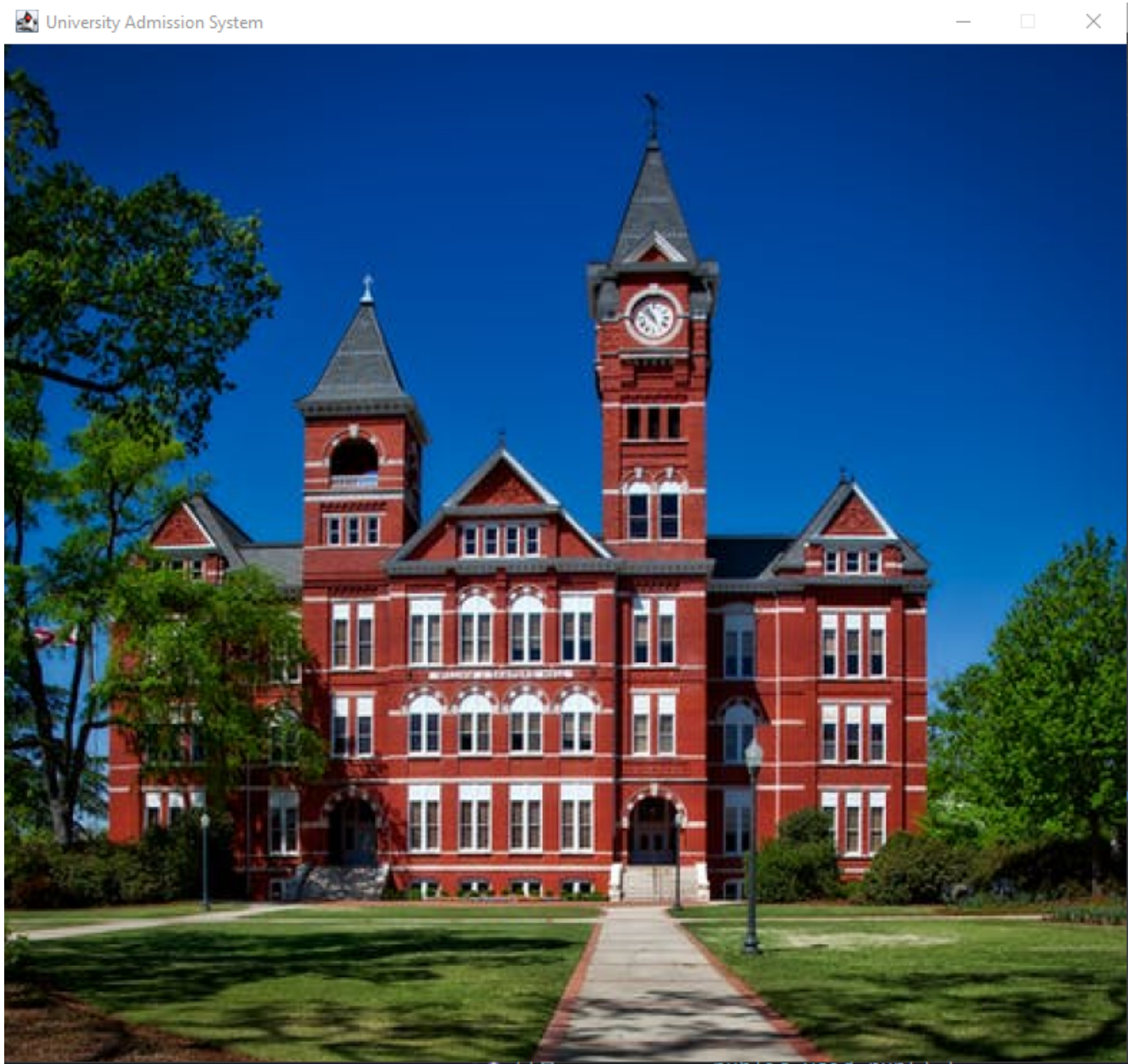
### **7.2.2 Robustness**

- If any information is missing from the Database, the application must be able to handle SQL Exceptions.

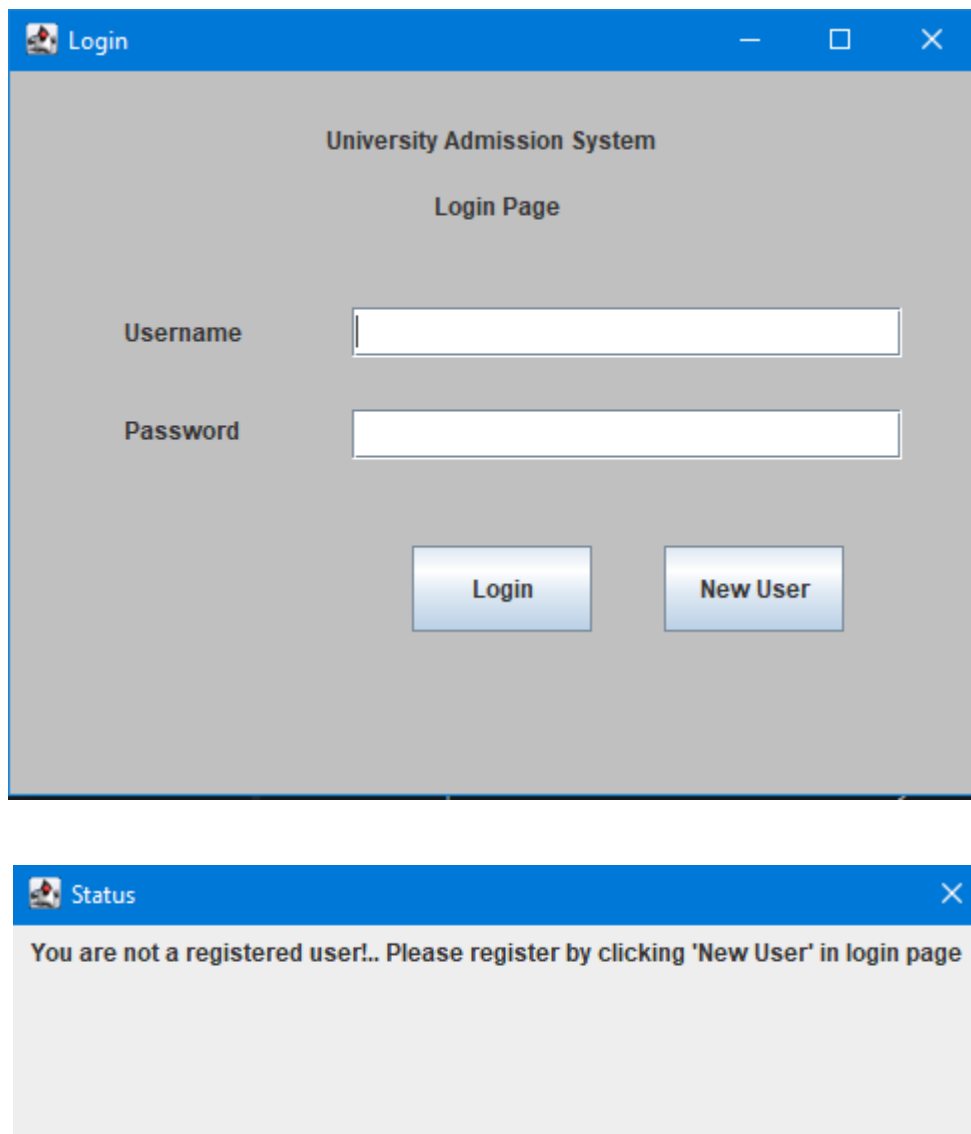


## 8 Screenshots

### 8.1 Loading page



## 8.2 Login Page



The image displays two screenshots from a web application. The top screenshot shows the 'Login' window of the 'University Admission System'. It features a title bar with a small icon and the text 'Login'. The main content area has a grey background and contains the text 'University Admission System' and 'Login Page'. Below this, there are two input fields: 'Username' and 'Password'. At the bottom, there are two buttons: 'Login' and 'New User'. The bottom screenshot shows a 'Status' window with a title bar containing a small icon and the text 'Status'. The main content area of this window displays the message: 'You are not a registered user!.. Please register by clicking 'New User' in login page'.

Here Students or Admins can login which will navigate to their respective page.

## 8.3 Admin Page

The screenshot shows a web application interface for an 'Admin Page'. On the left is a sidebar with filters for departments: CS, Bio, EEE, and ML. Each filter has a text input field with the value '10'. Below these is a date range selector with 'From' and 'To' labels, showing dates '2021/10/01' and '2021/12/31'. At the bottom of the sidebar is a 'List' button. The main area displays a table of employee data.

| ID | FIRST_NAME | PHONE_NUM... | EMAIL            | TOTAL_SCORE | DEPARTMENT | SELECTED |
|----|------------|--------------|------------------|-------------|------------|----------|
| 7  | Patricia   | 9305867564   | Pat@live.com     | 436         | CS         | T        |
| 1  | Olivia     | 9876543234   | Olivia@gmail.... | 432         | CS         | T        |
| 4  | Jimmy      | 6789564345   | Jimmy@gmail...   | 360         | CS         | T        |
| 6  | Noah       | 9365748576   | Noah@live.com    | 372         | Bio        | T        |
| 2  | Bob        | 6574567893   | Bob@gmail.co...  | 355         | Bio        | T        |
| 17 | Vijai      | 2314123433   | v@gmail.com      | 234         | Bio        | T        |
| 25 | Vishal     | 1234343433   | K@gmail.com      | 234         | Bio        | T        |
| 9  | Elizabeth  | 3857685768   | Eliz@gmail.com   | 413         | EEE        | T        |
| 5  | Jordan     | 9878675456   | Jordan@gmail...  | 310         | EEE        | T        |
| 18 | Bob        | 1234213443   | J@gmail.com      | 234         | EEE        | T        |
| 10 | Dorothy    | 5786758673   | Dora@gmail.c...  | 385         | ML         | T        |
| 3  | Chandler   | 3423456756   | Chand@gmail...   | 374         | Bio        | F        |
| 23 | Keller     | 3421341234   | S@gmail.com      | 234         | Bio        | F        |
| 11 | Vijai      | 9876758675   | Helen@live.com   | 300         | Bio        | F        |
| 8  | Nancy      | 1234567894   | Nancy@gmail....  | 411         | ML         | F        |

In the above image we can also update database by editing the values.

## 8.4 Student Login Page

The screenshot displays two windows. The left window, titled 'Login', is the 'University Admission System Login Page'. It features a 'Username' field with 'Olivia27' and a 'Password' field with masked characters. Below these are 'Login' and 'New User' buttons. The right window, titled 'Student Login', has a blue header and a pink body. It displays a success message: 'Congratulations Olivia27! You are selected in the admission process...' followed by 'Department and Faculty Details: Department id: 1 | Department Name: CS |' and 'Faculty Incharge for CS: Christopher J'.

The screenshot displays two windows. The left window, titled 'Login', is the 'University Admission System Login Page'. It features a 'Username' field with 'Chandler67' and a 'Password' field with masked characters. Below these are 'Login' and 'New User' buttons. The right window, titled 'Student Login', has a blue header and a pink body. It displays a failure message: 'Sorry Chandler67! You are not selected in the admission process...' followed by 'You are not meeting the cutoff criteria for the course you have applied.' and 'You can apply for the other courses available within the Registration ends.'

After The selection process students can login to check their selection status.

## 8.5 Registration Page

03/11/2021 16:36:24

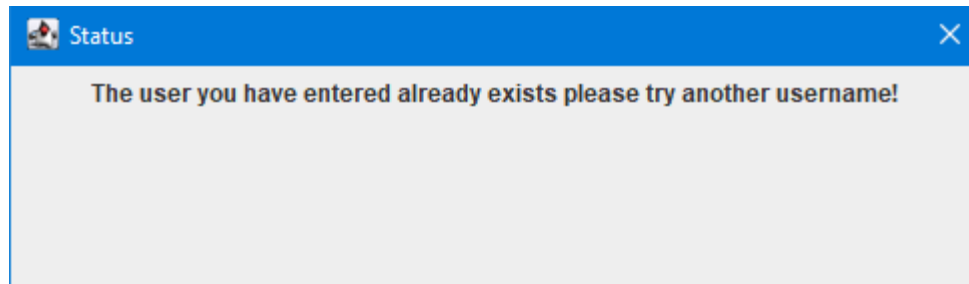
### Student Registration Form

| Personal Details  |   | Educational Details |                                |
|-------------------|---|---------------------|--------------------------------|
| First Name        | <input type="text"/>                                    | Physics             | <input type="text" value="0"/> |
| Last Name         | <input type="text"/>                                    | Chemistry           | <input type="text" value="0"/> |
| Age               | <input type="text"/>                                    | Maths               | <input type="text" value="0"/> |
| Mother's Name     | <input type="text"/>                                    | Biology             | <input type="text" value="0"/> |
| Father's Name     | <input type="text"/>                                    | English             | <input type="text" value="0"/> |
| Gender            | <input type="radio"/> Male <input type="radio"/> Female | Computer Science    | <input type="text" value="0"/> |
| Date of Birth     | <input type="text"/>                                    | Total Marks         | <input type="text" value="0"/> |
| Registration Date | <input type="text"/>                                    | Department          | <input type="text"/>           |
| Location          | <input type="text"/>                                    |                     |                                |
| Email ID          | <input type="text"/>                                    |                     |                                |
| Username          | <input type="text"/>                                    |                     |                                |
| Password          | <input type="text"/>                                    |                     |                                |
| Contact No        | <input type="text"/>                                    |                     |                                |

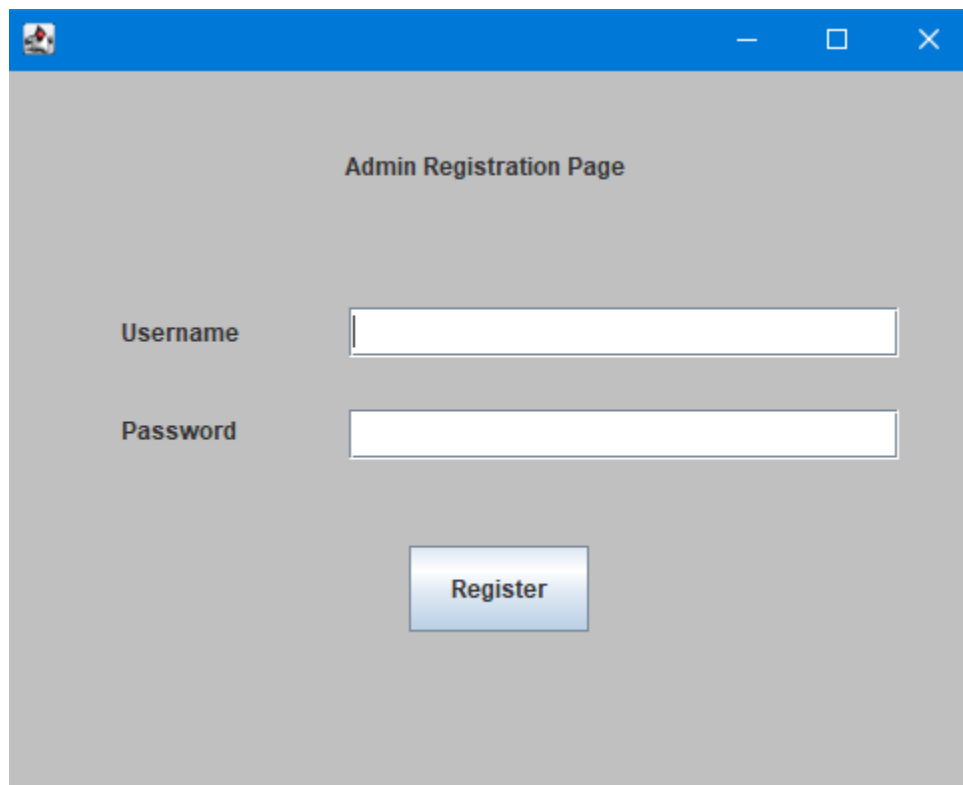
**Register**

Status

Please enter correct details!



## 8.6 Admin Registration Page



A screenshot of a web application window titled "Admin Registration Page". The window has a blue title bar with standard Windows controls (minimize, maximize, close). The main content area is gray and contains the following elements:

- The title "Admin Registration Page" centered at the top.
- A label "Username" followed by a text input field.
- A label "Password" followed by a text input field.
- A blue "Register" button centered below the input fields.