

Darshan University

A Project Report on

**Collage Management System**

Under the subject

**Software Engineering (2301CS405)**

B. Tech, Semester – IV

Computer Science & Engineering Department

|  |  |
| --- | --- |
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# DECLARATION

We hereby declare that the SRS, submitted along with the **Software Engineering (2301CS405)** for entitled **“Collage Management System”** submitted in partial fulfilment for the Semester-4 of **Bachelor Technology (B. Tech)** in **Computer Science and Engineering (CSE)** Department to Darshan University, Rajkot, is a record of the work carried out at **Darshan University, Rajkot** under the supervision of R. B. Gondaliya and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

(Ghada Afsana)

Student’s Signature

Date:

|  |  |
| --- | --- |
|  | **Computer Science & Engineering Department**  **Darshan University** |

# CERTIFICATE

This is to certify that the SRS on **“Collage Management System” has** been satisfactorily prepared by **Ghada Afsana** (**24010101633**) under my guidance in the fulfillment of the course **Software Engineering (2301CS405)** work during the academic year 2024-2025.

|  |  |
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Thus, in conclusion to the above said, I once again thank the faculties and members of

**Darshan University** for their valuable support in completion of the project.

Thanking You

**Ghada Afsana**

# ABSTRACT

Collage management system is a system which aims in developing a computerized system to maintain all the daily work of Collage. This system will act as a tool to transfer traditional Collage into digital Collage. This project has many features which are generally not available in general Collage system like facility of user login, Student search on one click etc. It also has a facility of admin login through which the admin can monitor the whole system. This system will be designed with the basic features such as Admin can add/view/update/delete Faculties and students' details in it.The Collage Management System is an integrated computerized system designed to manage and automate the daily administrative and academic tasks within a college. It aims to replace traditional paper-based processes with a digital solution, improving the efficiency and accessibility of various operations. The system incorporates features such as user and admin logins, book search, and easy management of student and book records.

Main purpose of this system is to reduce human efforts as much as possible.

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# Introduction

## Product perspective

The **Collage Management System** (CMS) provides an efficient way to manage the day-to-day activities of a college, including student records, book inventories, and administrative tasks. It offers distinct access rights for different users such as students, librarians, and admins to streamline their respective activities.

## Product features

### There are Five different users who will be using this product:

* Admin who will be acting as the administrator.
* Student who will be accessing the Application.
* .Faculties who will Upload

### The features that are required for the Admin are:

 Login to the admin panel with username and password.

 Generate various reports (student, book, teacher, issue report).

 Monitor and manage user accounts (students and librarians)Can issue a book to the student.

* Can view the data of student.
* Can update data for old student
* Can Information about Department & library
* Can Add Faculties
* Can Remove Faculties
* Can Generate a Fee Receipts
* Can generate Mark sheet for students
* Can access all the accounts of the students.

### The features that are required for the Member are:

* Can view the different categories of books available in the library.
* Can view the List of books available in each category.
* Can own an account in the library.
* Can view the books issued to him.
* Can put a request for a new book.

## Functional Requirement

### Admin

* Store New Student Data: can store data of new student.
* Update Data For Old Student : can update data of old student.
* Check The Student Remaining On It .
* Add Faculties : can add new faculties.
* Remove Faculties : can remove faculties.
* Add Branch : Add new branch in university.
* Remove Branch :admin can some reasons remove branch .
* Manage Registration : manage a full registration .
* Information about Department & library : information about department and library .
* Generate a Fee Receipts : generate a fee receipt for paid fee by student.
* Generate Mark sheet : generate mark sheet for exams.
* Pay Fee For Staff : pay fee to staff member.
* Verify Fee pay by Student

.

### Faculties

* Login Application : Login to the Faculties panel with username and password.
* Fill Attendances : Fill Attendances to who are present todays.
* Upload Material : Upload Material in application for student.
* Delete Materiel : Faculties can delete material.
* View Notices : view notices for new event or etc.
* Show Timetable : show timetable as per day.
* Update Timetable: update timetable for some cancel lectures.
* Information About Labs : information about student lab performance.
* Evaluate Student : evaluation of student.
* Check Student Data : check student data
  + 1. Student
* Sign in : student can sign in application.
* Download Materiel : download material for faculties can forward.
* Upload A Assignment : upload assignment as under time limit
* View Result : view result for given exams.
* View Attendance : view attendance.
* Edit Personal Info : edit personal information like photo.
* Give Feedback: given feedback for faculties.
* Update Profile:update profile
* View Notices : view notice’s for some event ,scholarship.
* Update Password : student can change password.
  + 1. Parents
* Show Attendance : show attendance for student absent or present.
* Show Mark Of Student : show mark sheet of student.
* Notices for Regarding Fee : show Notices about Regarding Fee.
* Pay Fee : pay fee for new semester.
* Account Section : account detail
  + 1. Mentor
* See Mark of Branch Wise All Student
* Search Student of Any Department by Brach Wise And Roll Number Wise
* Update Data

## Non-Functional Requirement

### Usability:

* The UI should be simple enough for everyone to understand and get the relevant information without any special training. Different languages can be provided based on the requirements.

### Accuracy:

* The data stored about the books and the fines calculated should be correct, consistent, and reliable.

### Availability:

* The System should be available for the duration when the library operates and must be recovered within an hour or less if it fails. The system should respond to the requests within two seconds or less.

### 

### Maintainability:

* The software should be easily maintainable and adding new features and making changes to the software must be as simple as possible. In addition to this, the software must also be portable.

### Reliability:

### Backup and recovery mechanisms should ensure that no more than 5 minutes of data is lost in the event of a failure.

### **Security**

### Access control mechanisms should ensure that only authorized users can access sensitive information.

* All sensitive data (e.g., student grades, personal information) should be encrypted both at rest and in transit.

### 1.4.7 **Portability**

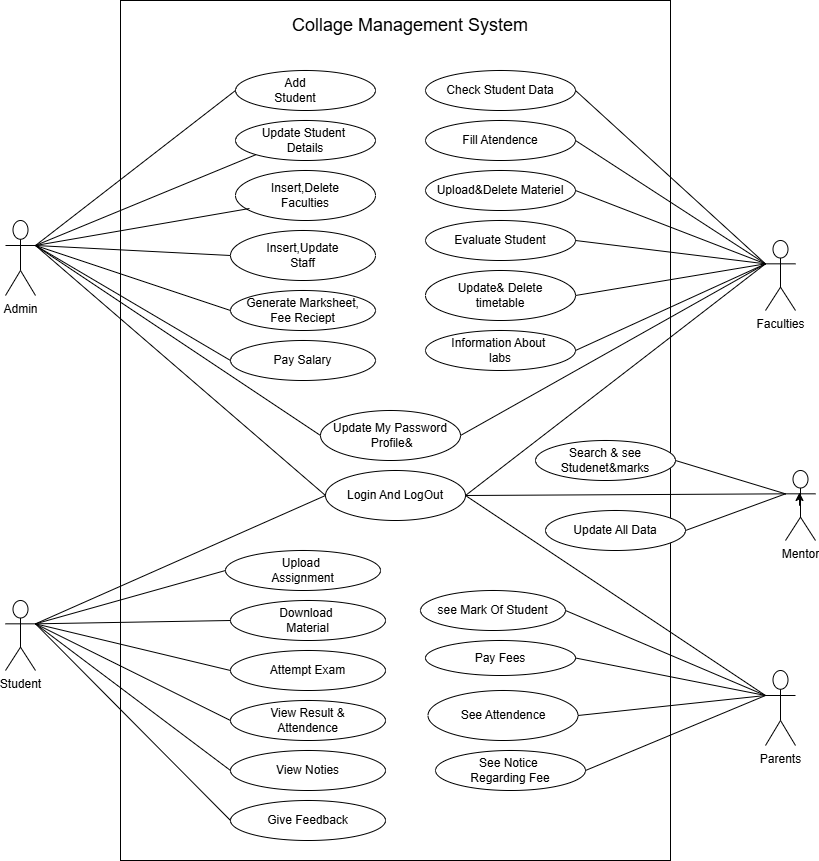
* The system should work on multiple platforms, including Windows, macOS, and popular Linux distributions.
* It should also be accessible through major web browsers (e.g., Chrome, Firefox, Safari).

.

# Design and Implementation Constraints

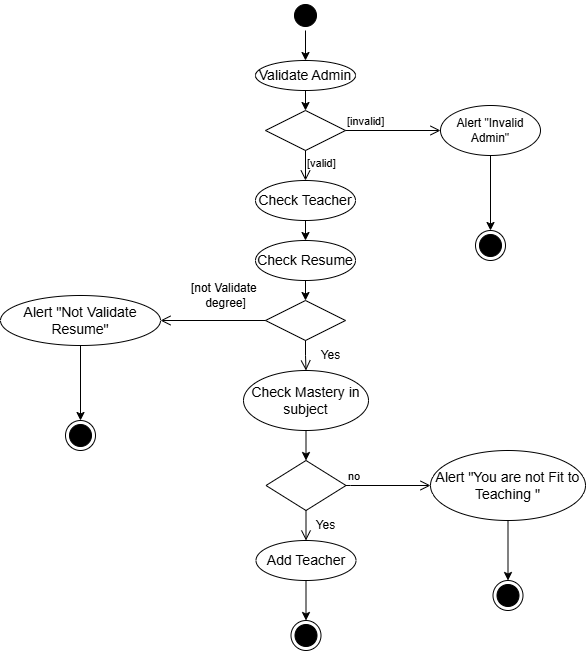
## Use case diagram

## 

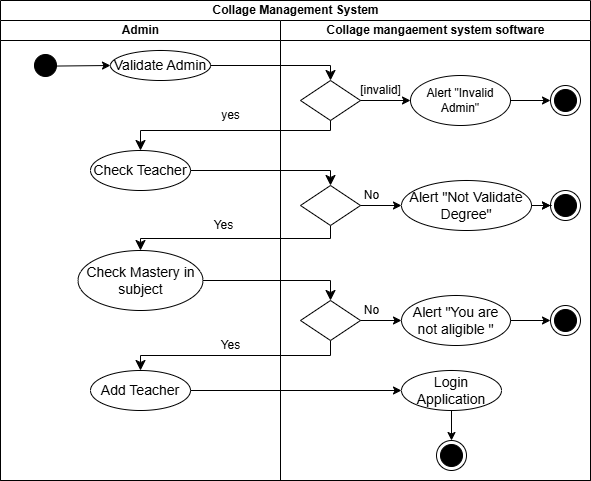


## Figure 2.1-1 Use case diagram for Collage management system

## Activity diagram and Swimlane diagram for Admin Activity

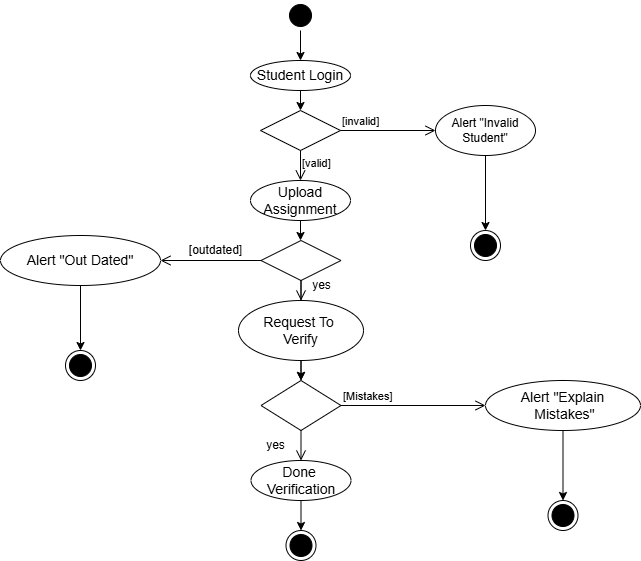
**

*Figure 2.2-1 Activity diagram for Admin Activity*

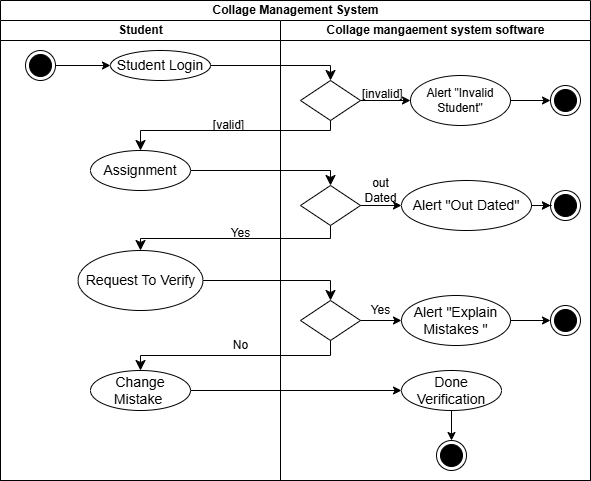
**

*Figure 2.2-2 Swimlane diagram for Admin Activity*

## Activity diagram and Swimlane diagram for Student Activity

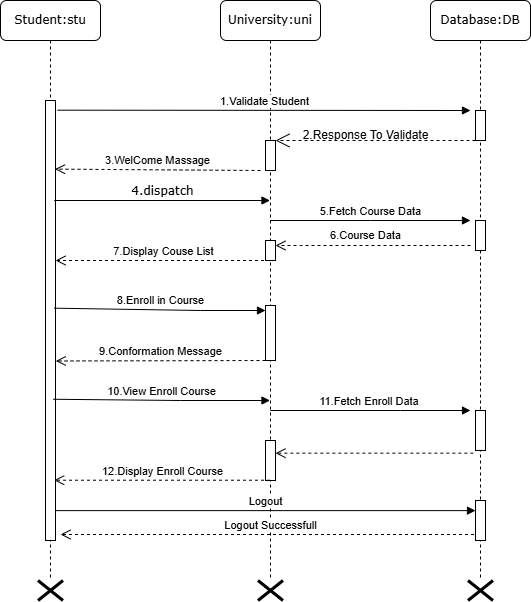


*Figure 2.2-3 Activity diagram for Student Activity*

**

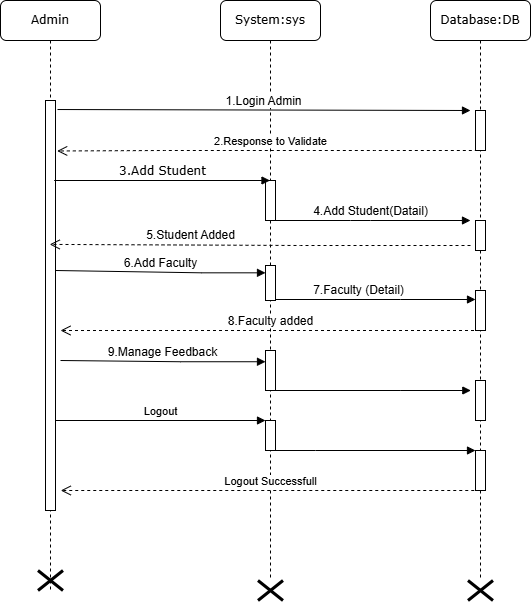
*Figure 2.2-4 Swimlane diagram for Student Activity*

## Sequence diagram

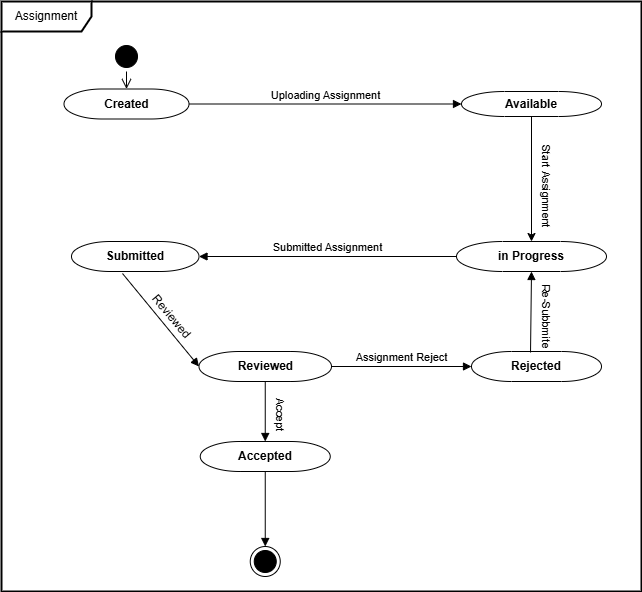
****

*Figure 2.3-1 Sequence diagram for Student course*

*Figure 2.3-2 Sequence diagram for Admin Task*

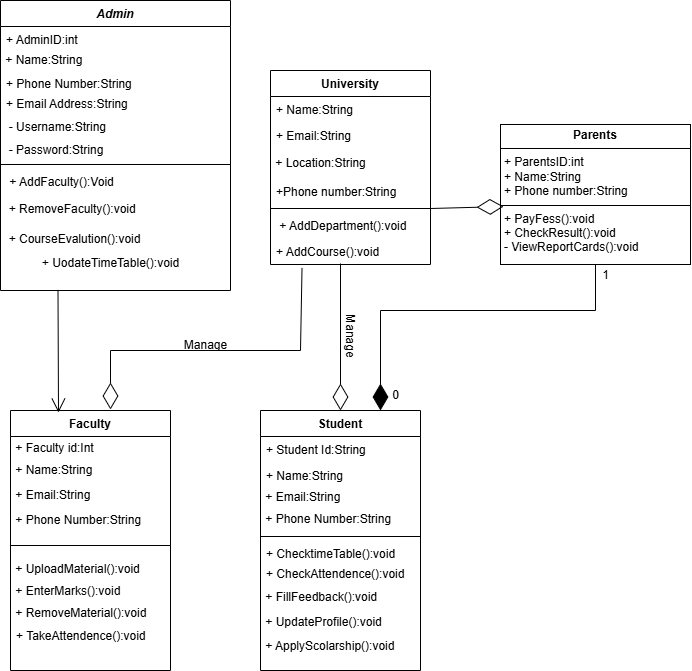


## State diagram



*Figure 2.4-1 State diagram of Assignment*

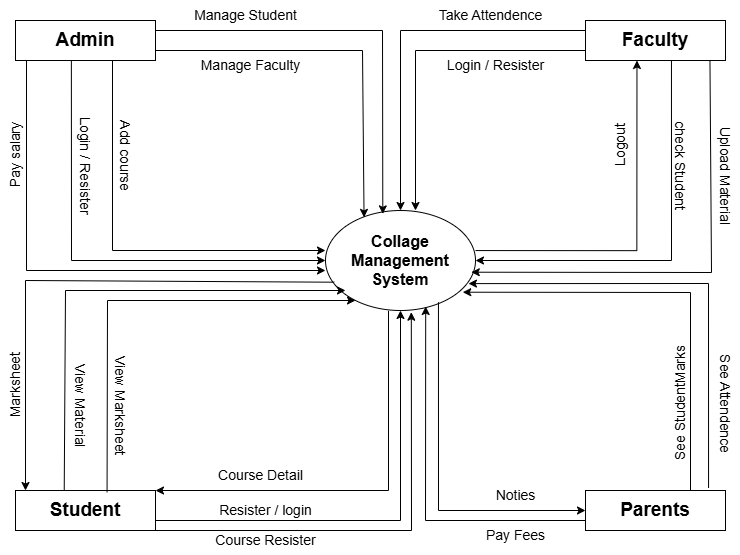
## Class diagram

****

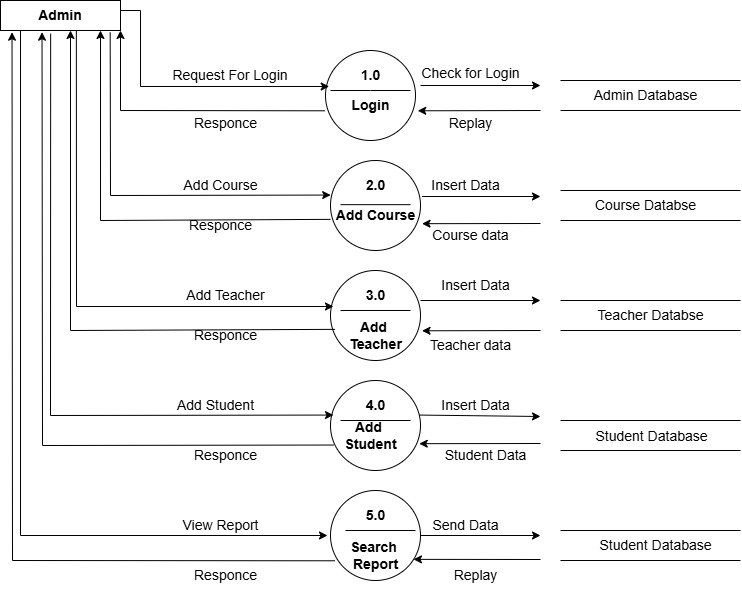
*Figure 2.5-1 Class diagram for collage management system*

## Data flow diagram

### Context diagram (level-0)



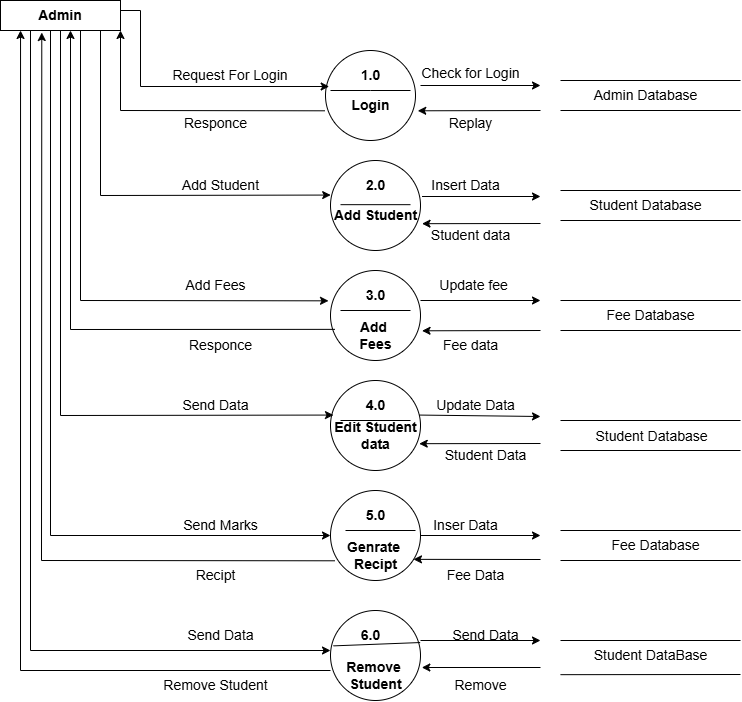
*Figure 2.6-1 Context diagram for Collage management system*



*Figure 2.6-2 DFD level-1 for collage management system*

Admin

### DFD Level-2



*Figure 2.6-3 DFD level-2 for Admin*

# External interface requirement (Screens)

## Screen-1: Check Student

## 

## 

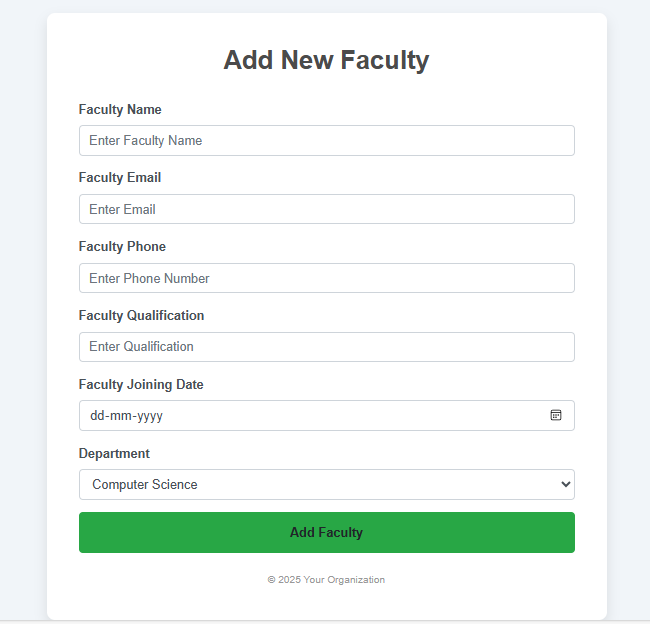
*Figure 3.1-1 Screen-1: Check student Remaining On it*

**Purpose:** This form will be check Student Available in this application . return a particular Student detail.

*Table 3.1-1 Screen element of Registration form*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | Enroll no | Textbox | M | 1 | A unique identifier for each student. |
| **2** | Name | Textbox | M | 1 | The full name of the student. |
| **3** | Age | Number | M | 1 | The age of the student. |
| **4** | Course | Dropdown | M | 1 | The course or program the student is enrolled in (e.g., Mathematics, Physics). |
| **5** | Student Id | Textbox | M | 1 | A unique ID assigned to the student by the institution. |
| **6** | Email | Link | ------ | ------ | The email address of the student in a valid email format (e.g., name@domain.com). |
| **7** | Check Remaining on it | Button | ------ | ------ | Check Botton Chek Student Available Or Not. |

## Screen-2: Add Faculty Form



*Figure 3.2-1 Screen-2: Add Faculty form*

**Purpose:** The purpose of the **"Add New Faculty"** form is to allow administrators to efficiently register and manage faculty details in the system, ensuring organized faculty data storage, quick retrieval, and seamless integration into institutional operations.

*Table 3.2-1 Screen element of Add Faculty form*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | |  | | --- | | Faculty Name |  |  | | --- | |  | | Textbox | M | 1 | Full name of the faculty member being added. |
| **2** | |  | | --- | | FacultyEmail |  |  | | --- | |  | | Email | M | 1 | The email address of the faculty member in a valid email format. |
| **3** | Faculty Phone | Number | M | 1 | The contact phone number of the faculty member. |
| **4** | Faculty Qualification | Textbox | M | 1 | Educational qualifications of the faculty member. |
| **5** | Faculty Joining Date | Date Picker | M | 1 | The date when the faculty member joined the institution. |
| **6** | Department | Dropdown | M | 1 | The department to which the faculty member belongs (e.g., Computer Science). |
| **7** | Add Faculty | Button | ------- | ------ | Button to submit the form and store faculty data in the database. |

## Screen-3: Upload Material

## 

*Figure 3.3-1 Screen-3: Upload Material*

**Purpose:** The purpose of the **"Upload Material"** form is to allow Faculty to upload academic materials such as lecture notes, presentations any other resources into the system for student access.

*Table 3.3-1 Screen element of Upload Material*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | Material Title | Textbox | M | 1 | Title of the academic material to identify its content clearly. |
| **2** | Description | Textbox | O | 1 | A brief description providing details about the material being uploaded. |
| **3** | Material Type | Dropdown | M | 1 | Type of material (e.g., Lecture Notes, Assignments, or Tutorials). |
| **4** | Upload File | File Input | M | 1 | Upload field for selecting the material file to be added to the system. |
| **5** | Upload Material | Button | ------ | ------ | Last Name field should be editable and accept  only string as a borrower last name. |

## Screen-4: Delete Material

## 

*Figure 3.4-1 Screen-4: Delete Material*

**Purpose:** The purpose of the above interface is to manage academic resources by listing materials with options to delete them. It ensures efficient organization and removal of outdated or unnecessary content.

*Table 3.4-1 Screen element of Delete Material*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | |  | | --- | | Material Title |  |  | | --- | |  | | Textbox | M | N | |  | | --- | | Displays the title of the material to identify it clearly. |  |  | | --- | |  | |
| **2** | |  | | --- | | Material Type |  |  | | --- | |  | | Textbox | M | N | |  | | --- | | Specifies the type of material, such as Lecture Notes, Research Papers, etc. |  |  | | --- | |  | |
| **3** | |  | | --- | | Uploaded By |  |  | | --- | |  | | Textbox | M | N | |  | | --- | | Displays the name of the uploader to track the contributor. |  |  | | --- | |  | |
| **4** | |  | | --- | | Actions |  |  | | --- | |  | | Button | M | N | "Delete" button to remove a specific material from the system. |

## 4.5 Screen-5:Upload Assignment

## 

## 

*Figure 3.5-1 Screen 5:Upload Assignment*

**Purpose**: The purpose of the "Upload Assignment" interface is to allow users to submit assignments by providing details like title, description, due date, and attaching relevant files. It organized submission for academic tasks.

*Table 3.5-1 Screen element of upload Assignment*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | |  | | --- | | Assignment Title |  |  | | --- | |  | | Textbox | M | 1 | Input field for entering the title of the assignment. |
| **2** | Description | Textbox | O | 1 | |  | | --- | | Optional field for providing a brief  description of the assignment. |  |  | | --- | |  | |
| **3** | |  | | --- | | Due Date |  |  | | --- | |  | | Date | M | 1 | |  | | --- | | Input field for selecting the due date of the  assignment. |  |  | | --- | |  | |
| **4** | Upload Assignment File | File Input | M | 1 | |  | | --- | | Field for attaching the file to be uploaded,  such as the assignment document. |  |  | | --- | |  | |
| **5** | Upload Assignment | Button | ------ | ------ | Button to confirm and upload the entered assignment details along with the selected file. |

## 4.6 Screen-6:View Result

## 

*Figure 3.6-1 Screen 5:View Result*

**Purpose:** The purpose of the above interface is to manage academic resources by listing materials with options to delete them. It ensures efficient organization and removal of outdated or unnecessary content

*Table 3.5-1 Screen element of View Result*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | |  | | --- | | Student ID |  |  | | --- | |  | | Textbox | M | 1 | |  | | --- | | Input field for entering the student’s  unique ID. |  |  | | --- | |  | |
| **2** | Password | Password | M | 1 | |  | | --- | | Field for securely entering the student’s  account password. |  |  | | --- | |  | |
| **3** | |  | | --- | | Select Exam |  |  | | --- | |  | | Dropdown | M | 1 | |  | | --- | | Dropdown menu for selecting the exam for  which the result is to be viewed. |  |  | | --- | |  | |
| **4** | |  | | --- | | Select Year |  |  | | --- | |  | | Dropdown | M | 1 | |  | | --- | | Dropdown menu for selecting the year of  the exam. |  |  | | --- | |  | |
| **5** | |  | | --- | | Captcha |  |  | | --- | |  | | Textbox | M | 1 | |  | | --- | | Field to enter the displayed CAPTCHA code  to verify user authenticity. |  |  | | --- | |  | |
| **6** | Refresh Captcha | Button | ------ | ------ | |  | | --- | | Button to generate a new CAPTCHA code if  the current one is unclear. |  |  | | --- | |  | |
| **7** | |  | | --- | | View Result |  |  | | --- | |  | | Button | ------ | ------ | Button to submit all details and view the result. |

# Database design

## List of Tables

* Book
* Borrower
* Student
* Staff

*Table 4.1-1 Table: Book*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Data Type** | **Null** | **Keys & Constrains** | **Default Value & Description** |
| **BookID** | int | NN | PK (Auto Increment) |  |
| **BookName** | varchar(100) | NN |  |  |
| **ISBN** | varchar(100) | AN |  |  |
| **Publication\_year** | int | AN |  |  |
| **Language** | varchar(50) | AN |  |  |

*Table 4.1-2 Table: Borrower*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Data Type** | **Null** | **Keys & Constrains** | **Default Value & Description** |
| **BorrowerID** | int | NN | PK (Auto Increment) |  |
| **BookID** | varchar(100) | NN | FK | Reference of Book Table |
| **BorrowedFromDate** | DateTime | AN |  |  |
| **BorrowedToDate** | DateTime | AN |  |  |
| **ActualReturnDate** | DateTime | AN |  |  |
| **IssuedBy** | int | NN | FK | Reference of Student and  Staff Table |

*Table 4.1-3 Table: Staff*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Data Type** | **Null** | **Keys & Constrains** | **Default Value & Description** |
| **StaffID** | int | NN | PK (Auto Increment) |  |
| **StaffName** | varchar(100) | AN |  |  |
| **IsAdmin** | Boolean | AN |  |  |
| **Designation** | varchar(100) | AN |  |  |

*Table 4.1-4 Table: Student*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column** | **Data Type** | **Null** | **Keys & Constrains** | **Default Value & Description** |
| **StudentID** | int | NN | PK (Auto Increment) |  |
| **StudentName** | varchar(100) | AN |  |  |
| **Gender** | varchar(100) | AN |  |  |
| **DOB** | DateTime | AN |  |  |
| **Department** | varchar(100) | AN |  |  |
| **Contact** | number(10,0) | AN |  |  |

# Stories and Scenario

## Story-1: Add New Book in Library Catalogue

|  |  |  |
| --- | --- | --- |
| *Story #* ***S1*** | **:** | **As a** Librarian,  **I want to** add a new book in library catalogue  **So that** everyone can easily find and borrow it. |
| **Priority** | **:** | High |
| **Estimate** | **:** | XL |
| **Reason** | **:** | The addition of a new book to the library catalogue is crucial for ensuring that  the library's collection is up-to-date and accessible to everyone. |

### Scenario# S1.1

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| --- | --- | --- |
| *Scenario#* ***S1.1*** | **:** | Adding a New Book with Valid Information |
| **Prerequisite** | **:** | Librarian is logged in to the Library management system. |
| **Acceptance Criteria** | **:** | **Given:** The Librarian is navigated to the library catalog management page. Valid book information, including title, author, ISBN, and other relevant details is added.  **When:**  The librarian selects the "Add New Book" option And The librarian enters valid book details  The librarian clicks the "Save" button to add the book to the catalog.  **Then t**he system successfully adds the book to the catalog and the librarian receives a confirmation message with the book's identification number. |

* + 1. Scenario# S1.2

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| --- | --- | --- |
| *Scenario#* ***S1.2*** | **:** | Adding a New Book with Invalid Information. |
| **Prerequisite** | **:** | The librarian is logged into the library management system. |
| **Acceptance Criteria** | **:** | **Given:** The librarian is on the library catalogue management page  **When:** The librarian selects the "Add New Book" option and the librarian enters an incomplete or incorrect book details and librarian clicks the "Save" button to add the book to the catalogue.  **Then t**he system displays error messages for the incorrect or missing information and the book is not added to the catalogue. |

* + 1. Scenario# S1.3

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| *Scenario#* ***S1.3*** | **:** | Attempting to Add a Duplicate Book |
| **Prerequisite** | **:** | The librarian is logged into the library management system and the  librarian is on the library catalogue management page |
| **Acceptance Criteria** | **:** | **Given**: The book information, including title, author, ISBN, and other relevant details, is available and the book with the same ISBN is already in the catalogue.  **When**: User Clicks on “Add book” button. Enter a number of copies with  the same book detail mentioned in the field. |

**Then**: Generate unique book id, barcode and spine label for various book of same title.

## Story-2: Search Book

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| --- | --- | --- |
| *Story #* ***S2*** | : | **As a** Librarian or member,  **I want to** search for books by title, author, or keyword,  **So that** I can quickly find books that match my interests. |
| **Priority** | **:** | High |
| **Estimate** | **:** | M |
| **Reason** | **:** | Implementing a search functionality is essential for enhancing the user  experience, as it allows librarian and member to efficiently discover and access the library's resources. |

* 1. **Story-3: Manage due date for borrowed book**

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| *Story #* ***S3*** | **:** | **As** Librarian,  **I want** to manage due dates for borrowed books  **So that** I can ensure that books are returned on time and avoid overdue fines. |
| **Priority** | **:** | High |
| **Estimate** | **:** | M |
| **Reason** | **:** | Proper due date management is crucial for maintaining the library's collection  and ensuring that books are available for all members. |

## Story-4: Renew book

|  |  |  |
| --- | --- | --- |
| *Story #* ***S3*** | **:** | **As** Librarian,  **I want** to renew a book that I have borrowed  **So that** I can extend my borrowing period if needed. |
| **Priority** | **:** | Medium |
| **Estimate** | **:** | M |
| **Reason** | **:** | Book renewal functionality is a convenience feature for librarian, allowing  them to keep a book for an extended period if no one else has requested it. |

* 1. **Story-5: Generate a report on book usage and availability**

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| --- | --- | --- |
| *Story #* ***S3*** | **:** | **As** Librarian,  **I want** to generate reports on library usage and book availability  **So that** I can make informed decisions about library’s books. |
| **Priority** | **:** | Medium |
| **Estimate** | **:** | L |
| **Reason** | **:** | Reporting functionality helps librarians track the usage of library resources and  make data-driven decisions to improve services and collections. |

# Test cases

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name:** | **EMI Calculator** | **Test Designed by:** | **P. U. Jadeja** |
| **Module Name:** | **Login** | **Test Designed date:** | 01-10-2023 |
| **Release Version:** | **1.0** | **Test Executed by:** | **R. B. Gondaliya** |
|  |  | **Test Execution date:** | 15-01-2023 |

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| --- | --- | --- | --- | --- |
| **Pre-condition**: **Web application should be accessible** | | | | |
| **Test Case ID** | **Test Title** | **Test Type** | **Description** | **Test Case ID** |
| **TC\_001** | Login to web application with valid  credential | Functional | Login to Library management system web application through  valid credential | TC\_001 |
| **TC\_002** | Login to web  application with  invalid credential | Functional | Login to Library management system web application through  invalid credential | TC\_002 |
| **TC\_003** | Varify login page  elements | GUI | varify that all elements are availabe  on login page | TC\_003 |

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| --- | --- |
| Test Case Title | Login to web application with valid credential |
| Test Type | Functional |
| Test Priority | High |
| Pre-condition | Web application should be accessible |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test  Step | Test Case  Description | Expected Result | Actual Result | Status | Comment | Data | BUG ID |
| 1 | Access Web  application URL | The site  launched properly | Site launched successfully | Pass |  | [https://accounts.](https://accounts.google.com/ServiceLogin) [google.com/Ser](https://accounts.google.com/ServiceLogin) [viceLogin](https://accounts.google.com/ServiceLogin) |  |
| 2 | Enter valid Username in username field | Username field should be  editable and  accept the Username | Username input accepted | Pass |  | Username: Rbgondaliya@ gmail.com |  |
| 3 | Enter valid Password in Password field | Password field should be  editable and  accept the password and display as star or dot | Password input displayed in dot and accepted | pass |  | Password: rbgondaliya |  |
| 4 | Enter valid captcha code in captch field | Captch field should editable and accept captcha and captcha is case sensitive | Captcha input accepted | Pass | Step require d when human action validati  on | get captcha  from image which is near by captcha field |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | perfor m |  |  |
| 5 | Click on login button | User should login into site and navigated to dashboard | User navigated to dashboard and username should br display in top of the right  side. | pass |  |  |  |

|  |  |
| --- | --- |
| Test Case Title | Login to web application with invalid credential |
| Test Type | Functional |
| Test Priority | Medium |
| Pre-condition | Web application should be accessible |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Step | Test Case Description | Expected Result | Actual Result | Status | Comment | Data | Bug ID |
| 1 | Verify that User is not able to Login with invalid Username and invalid  Password | Should be display an error message enter wrong username or password | Display an  error of wrong username and password | Pass |  |  |  |
| 2 | Verify that User is not able to Login with Valid Username and invalid  Password | Should be display an error message enter wrong password | Display an  error of wrong password | Pass |  |  |  |
| 3 | Verify that User is not able  to Login with | Should be display an error message | Display an error Username not found | Pass |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | invalid Username and Valid  Password | User not found |  |  |  |  |  |
| 4 | Verify that User is not able to Login with blank Username or  Password | Set required field validation message for Username and  Password | Display an  error of wrong username and password | Fail | Not performa a validation function fix it |  | Bug\_002 |

|  |  |
| --- | --- |
| Test Case Title | Varify login page elements |
| Test Type | GUI |
| Test Priority | Medium |
| Pre-condition | Web application should be accessible |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Step | Test Case Description | Expected Result | Actual Result | Status | Comment | Data | Bug ID |
| 1 | Launch application with the  given url | The site launched properly | Site launched successfully | Pass |  | [https://accounts.googl](https://accounts.google.com/ServiceLogin) [e.com/ServiceLogin](https://accounts.google.com/ServiceLogin) |  |
| 2 | Verify that the login screen contains elements such as Username, Password, Sign in button, Remember password check box, Forgot password link, and Create an account  link. | All listed control displayed properly on the page | Login page loaded successfully | Pass |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | Verify that cursor is focused on “Usernam e” text box on the  page load | Cursor is focused in Usernam e textbox | Cursor focus in Username textbox | Pass |  |  |  |
| 4 | Verify that tab functionali ty is  working properly or not | When tab pressed cursor move in next control | Cursor moving in next control | Pass |  |  |  |
| 5 | Verify that all the fields such as Username, Password has a valid  placeholde r | All text fields have proper placehold er | All text fields have proper placeholder | Pass |  |  |  |
| 6 | Verify that the labels float upward when the text field is in focus or filled (In  case of floating label) | When field is focused or filled, label display on top of the filled | When field is focus or filled, label display on top of the filled | Pass | step required when fields with floating label |  |  |
| 7 | verify that forgot password link working properly | when click on forgot password load forgot passworg  page | forgot password link not working | Fail |  |  |  |

1. **References**

* <http://www.w3schools.com/html/html_intro.asp>
* https://[www.w3schools.com/php/default.asp](http://www.w3schools.com/php/default.asp)
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