

Darshan University

A Project Report on

**“ADMISSION MANAGEMENT”**

Under the subject

**Software Engineering (2101CS503)**

B. Tech, Semester – IV

Computer Science & Engineering Department

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| Academic Year  (2024-2025) | |
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|  | **Computer Science & Engineering Department**  **Darshan University** |

**DECLARATION**

We hereby declare that the SRS, submitted along with the **Software Engineering** **(2101CS503)** for entitled **“Admission management”** submitted in partial fulfilment for the Semester-5 of **Bachelor Technology (B. Tech)** in **Computer Science and Engineering (CSE)** Departmentto Darshan University, Rajkot, is a record of the work carried out at **Darshan University, Rajkot** under the supervision of **Prof, RajKumar Gondaliya** and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

(Rushi Gambhav)

Student’s Signature

Date: \_\_\_\_\_\_\_\_\_\_

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

**CERTIFICATE**

This is to certify that the SRS on **“Admission management” has** been satisfactorily prepared by Rushi Gambhava (23010101082) under my guidance in the fulfillment of the course **Software Engineering (2101CS503)** work during the academic year 2024-2025.

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| --- | --- | --- |
| Internal Guide  Prof. RajKumar Gondaliya  Darshan University |  | Dean-DIET  Dr. Gopi Sanghani  Darshan University |

**Acknowledgement**

I wish to express my sincere gratitude to my project guide **Prof. RajKumar Gondaliya** and all the faculty members for helping me through my project by giving me the necessary suggestions and advices along with their valuable co- ordination in completing this work.

I also thank my parents, friends and all the members of the family for their precious support and encouragement which they had provided in completion of my work. In addition to that, I would also like to mention the Darshan University personals who gave me the permission to use and experience the valuable resources required for the project from the University premises.

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

Rushi Gambhava

**ABSTRACT**

The Admission Management project is a digital platform designed to simplify and streamline the admissions process for educational institutions. It offers a user-friendly student portal for application submission, document uploads, and status tracking, along with an admin dashboard for reviewing applications, communicating with applicants, and making decisions. The system includes automatic email and SMS notifications to keep applicants updated, tools for generating reports and analyzing data, and integration capabilities with other systems like payment gateways and student databases. This project aims to save time, reduce errors, and improve the overall admissions experience for both students and administrators.

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

# Introduction

## Product perspective

The Admission Management project is a web-based platform designed to simplify and improve the admissions process for schools and colleges. It offers a user-friendly portal for students to submit applications, upload documents, and track their status, and a secure dashboard for staff to review applications and communicate with applicants. The system integrates with existing student databases and payment services, provides automatic notifications, and generates reports to help schools analyze and enhance their admissions process. This project aims to save time, reduce errors, and make admissions easier and more efficient for everyone involved.

## Product features

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

* **Administrator** who will be managing admissions and student data.
* **Applicant** who will be applying for admission.
* **Guest** who will request information or submit an application.

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

* Manage the movement of student applications and avoid losing important documents.
* Search for a specific application based on applicant name, admission number, program, etc.
* Print admission-related documents such as offer letters or student IDs.
* Track which applicants have completed admission requirements and submitted necessary documents. Offers modules for Application Management, Student Records, and Queries.
* Approve or reject an application.
* View the list of applicants for each program or department.
* Accept admission confirmation or withdrawal from applicants.
* Add new programs or courses to the system.
* Edit existing applicant information or program details.
* View reports on the number of applications received, admissions approved, etc.
* Access all applicant accounts and update their application status.

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

* View different programs and courses available.
* View the status of their application.
* Create and manage an account in the admission system.
* View the list of documents they have submitted or need to submit.
* Request to change program or defer admission.
* Submit applications and upload required documents online.

## Functional Requirement

### **Student**

1. **Registration**: Students register using name, email ID, and mobile number.
2. **Login**: Students log in using email ID and password.
3. **View Profile**: Students can view their profile.
4. **Edit Profile**: Students can update their profile as needed.
5. **Fill Form**: Students fill out forms for any degree as per requirement.
6. **View Program Details**: Students view details of programs offered by the university.
7. **View Faculty Details**: Students view details about faculty members.
8. **Upload Documents**: Students upload documents like living certificates, proof of ID, and 12th mark sheets.
9. **View Fee Structure**: Students view fee structures for various programs.
10. **Fees Payment**: Students pay fees using cash, check, DD, or UPI.
11. **View Scholarship Details**: Students view scholarships provided by the government or university.
12. **Check Email**: Students check emails for updates.
13. **Collect Fee Receipt**: After payment, students collect a fee receipt.
14. **Apply for Scholarship**: Students apply for scholarships.
15. **View Education Loan Details**: Students view details about education loans.
16. **Apply for Transportation Service**: Students apply for transportation services, select routes and cities, and pay fees.
17. **Track Application Status**: Students can track the status of their admission applications.
18. **View Important Dates**: Students view critical dates related to admissions, payments, and other processes.
19. **Download Admission Form**: Students can download filled admission forms for their records.
20. **Provide Feedback**: Students submit feedback about the admission process.

### **Staff**

1. **Register**: Staff register using name, email ID, and password.
2. **Login**: Staff log in using email ID and password.
3. **View Student Details**: After students fill out forms, staff can view all details.
4. **Send Email**: Staff send emails to students about admission status.
5. **Collect Fees**: Staff collect student fees.
6. **Provide Fee Receipt**: Staff issue fee receipts after payment.
7. **Application Review and Approval**: Staff review and approve applications.
8. **Verify Documents**: Staff verify the uploaded documents submitted by students.
9. **Track Pending Applications**: Staff monitor and manage pending or incomplete applications.

### **Admin**

1. **View Yearly Records**: Admin views yearly admission records.
2. **Generate Reports**: Admin generates various reports (e.g., yearly admissions, scholarship applications, fee collection).
3. **Manage Staff Accounts**: Admin creates, updates, and deletes staff accounts.
4. **Audit Logs**: Admin monitors activity logs for transparency and security.
5. **Set Application Deadlines**: Admin defines and updates deadlines for applications, fee payments, and other key events.
6. **Monitor Program Popularity**: Admin analyzes the popularity of different programs based on student applications.
7. **Update Program Details**: Admin manages details of programs offered by the university.
8. **Handle Complaints**: Admin addresses complaints and issues raised by students or staff.
9. **Approve Scholarships**: Admin reviews and approves scholarship applications.
10. **Oversee Transportation Services**: Admin monitors transportation service usage and payments.

## 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.

# Design and Implementation Constraints

## Use case diagram

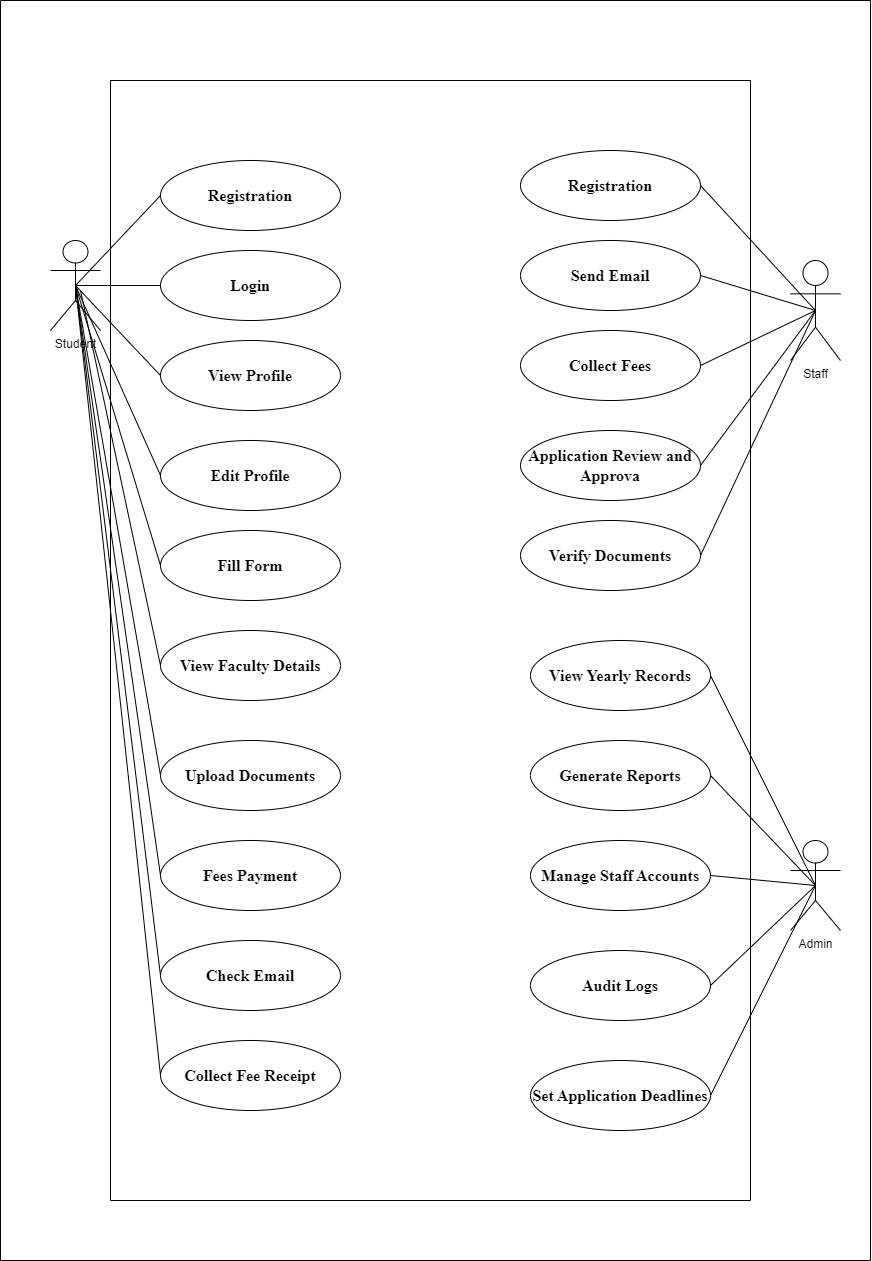


Figure 2.1‑1 Use case diagram for Admission management system

## Activity diagram and Swimlane diagram

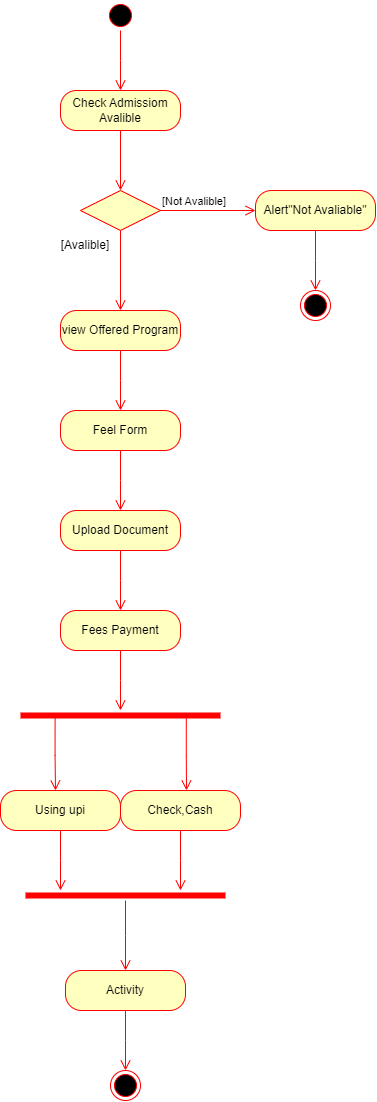


Figure 2.2‑1 Activity diagram of Admission Management(Student)

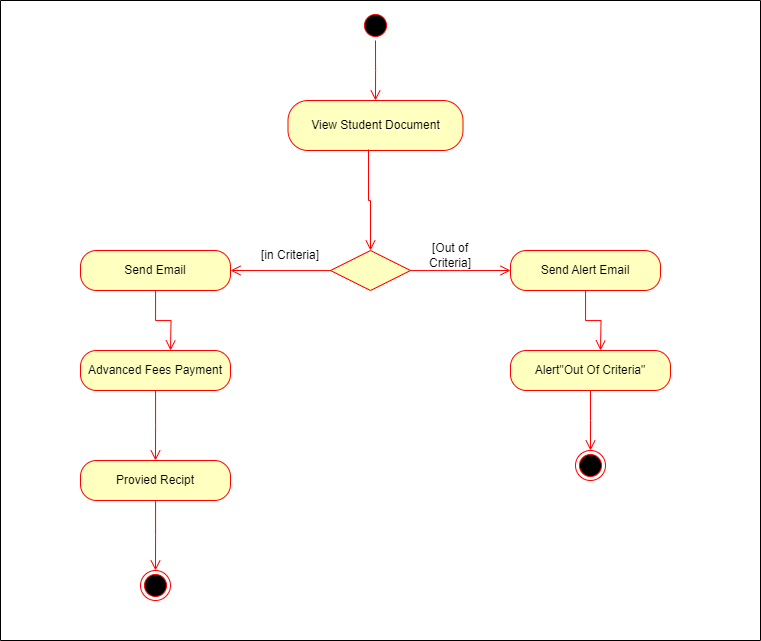


Figure 2.2‑2 Activity Diagram of Admission Management(Staff)

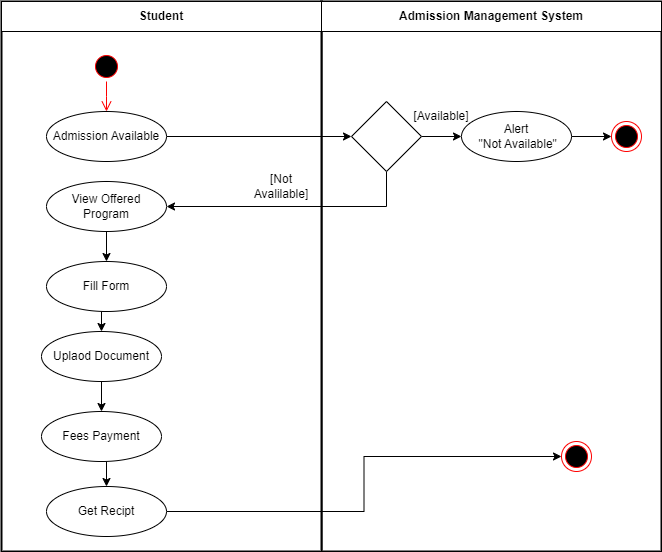


Figure 2.3‑Swimlane Diagram of Admission Management

## Sequence diagram

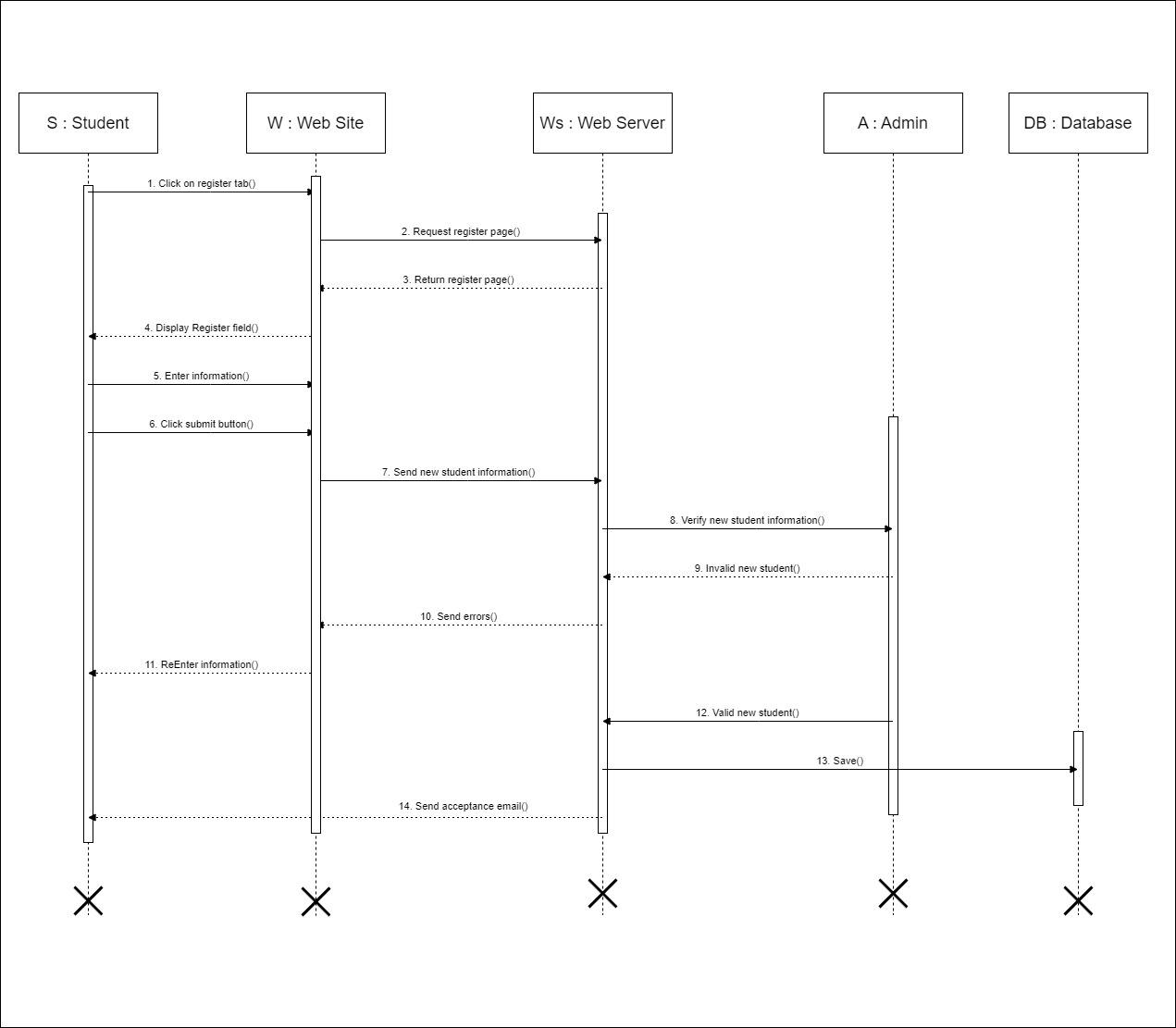
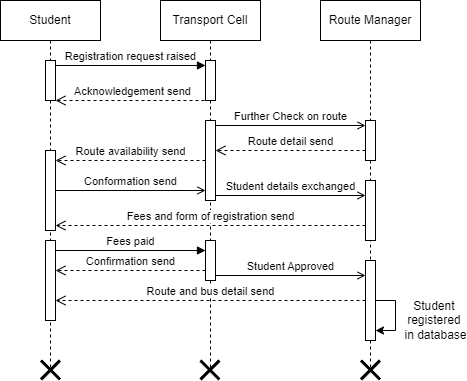


Figure 2.3‑1 Sequence diagram for student Admission



*Figure 2.3-2 Sequence diagram for Trasport Registration*

## State diagram

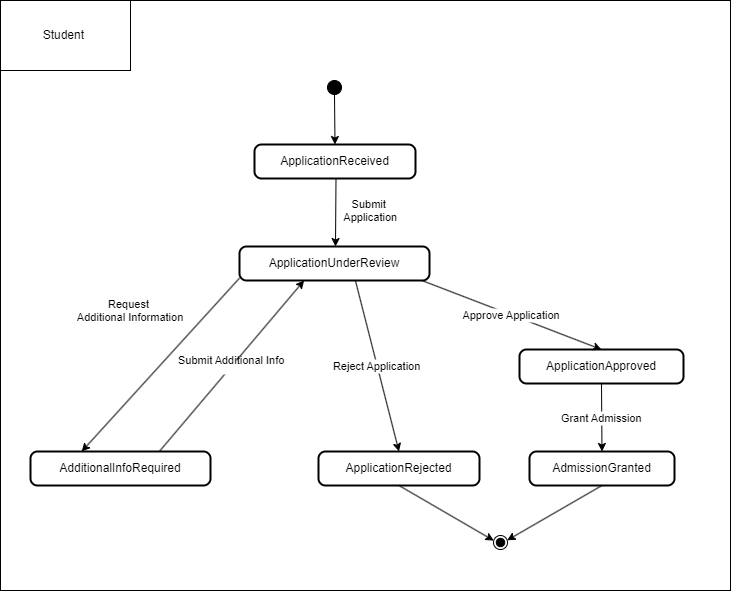


Figure 2.4‑1 State diagram of Student

## Class diagram

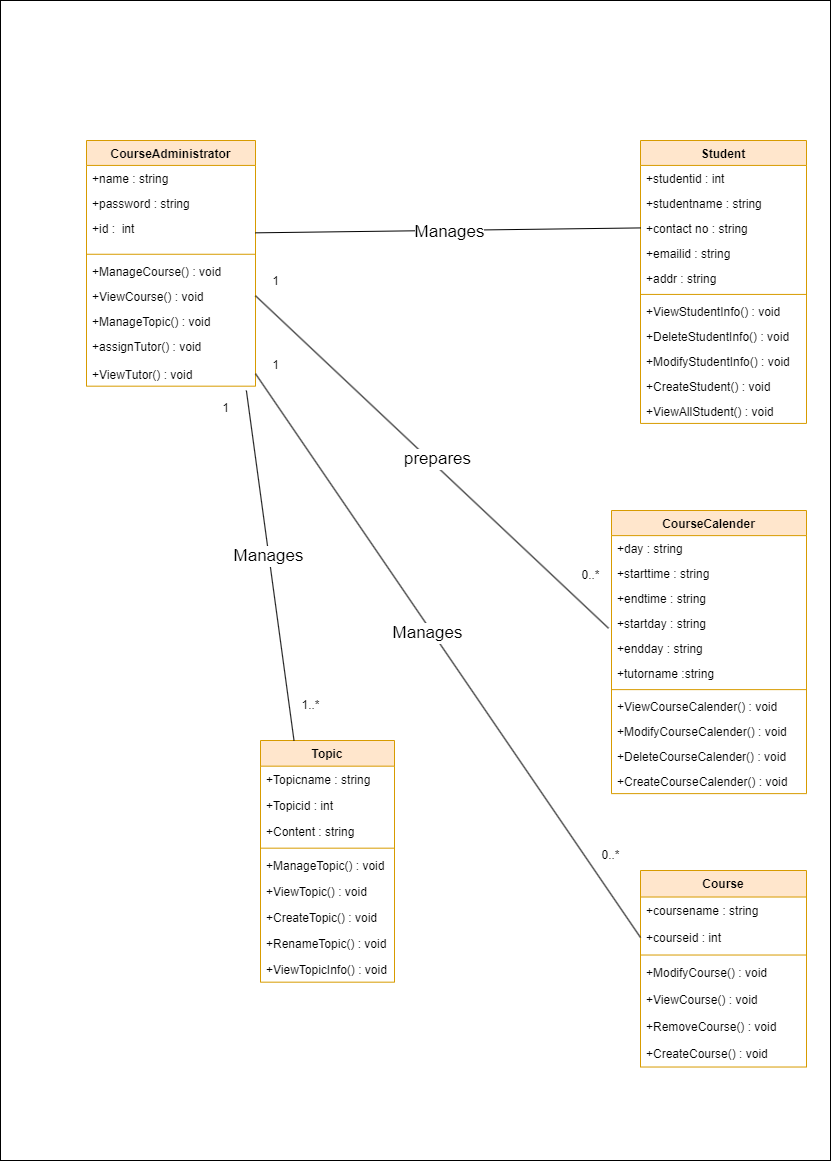


Figure 2.5‑1 Class diagram for Admission management system

Data flow diagram

### Context diagram (level-0)

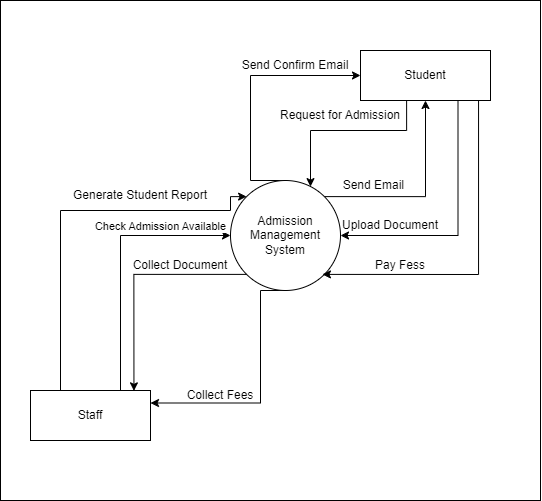


Figure 2.6‑1 Context diagram for Admission management system

### DFD Level-1

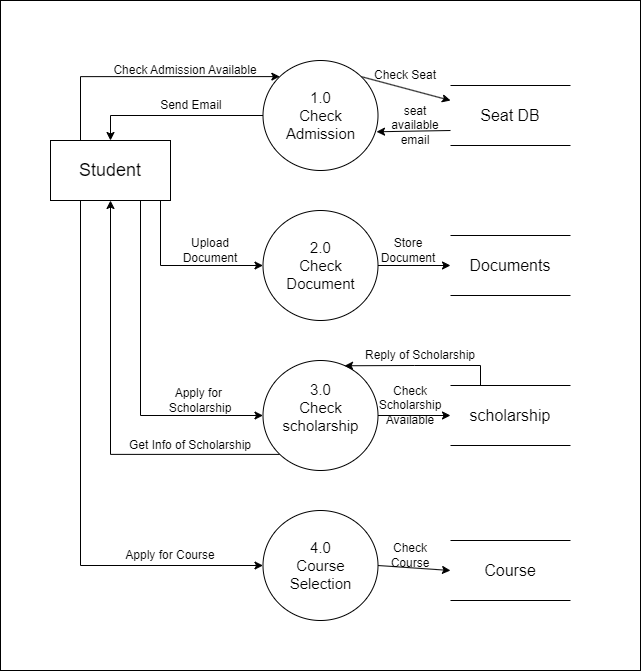


Figure 2.6‑2 DFD level-1 for Admission management system

# External interface requirement (Screens)

## Screen-1: Registration Form

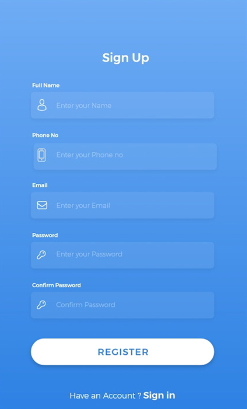


Figure 3.1‑1 Screen-1: Registration Form

**Purpose:** This form will allow the target end-users to register in the system. To register , the following information will be encoded in the system.

Table 3.1‑1 Screen element of Registration form

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. | Screen Element | Input Type | O/M | 1/N | Description |
| 1 | Full Name | Textbox | M | 1 | Full name field should be editable and accept the student full name. |
| 2 | Phone No | Textbox | M | 1 | Phone no field should be editable and accept student phone no. |
| 3 | Email | Textbox | M | 1 | Email field should be editable and accept the email with proper format. |
| 4 | Password | Password | M | 1 | Password field should be editable and accept the password and display as star or dot. |
| 5 | Confirm password | Password | M | 1 | Confirm Password field should be editable and accept the password and display as star or dot. |
| 6 | Register | Button | ------ | ------ | Register is a button for store the entered data into database. |
| 7 | Have a sign in | Link | ----- | ------ | If you are Successfully register then click in this link to redirect into the sign in or login page. |

## Screen-3: Add Order Items



Figure 3.2-1 Screen-3: Add borrower book

**Purpose:** This module will allow the system administrator to add, edit, update or delete borrowers of book. The admin can add borrower information and manage it.

Table 3.3‑1 Screen element of Add borrower book

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. | Screen Element | Input Type | O/M | 1/N | Description |
| 1 | Cart | Button | ------ | ------- | Cart button is show all product in store in to your cart. |
| 2 | Back | Button | ------ | ------ | Back button is navigate to the previous slide. |
| 3 | Product Detail | Box | ------ | ------ | Show the product name and price. |
| 4 | Add to cart(+) | Button | ------ | ------ | Add to cart button is add your item in cart screen. |

## Screen-4: Cart Page

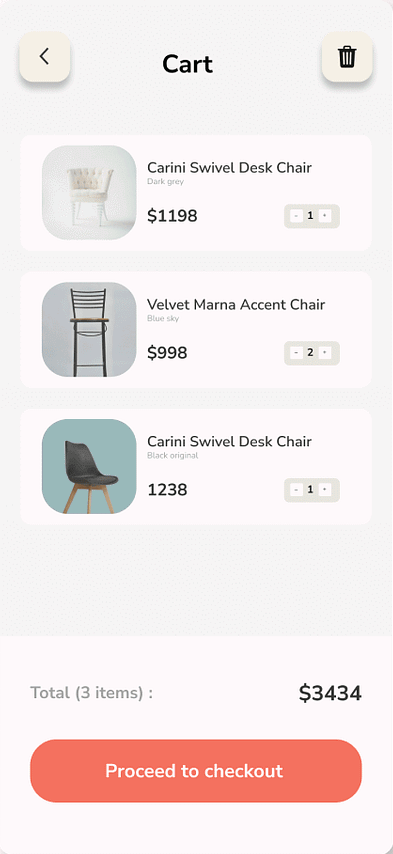


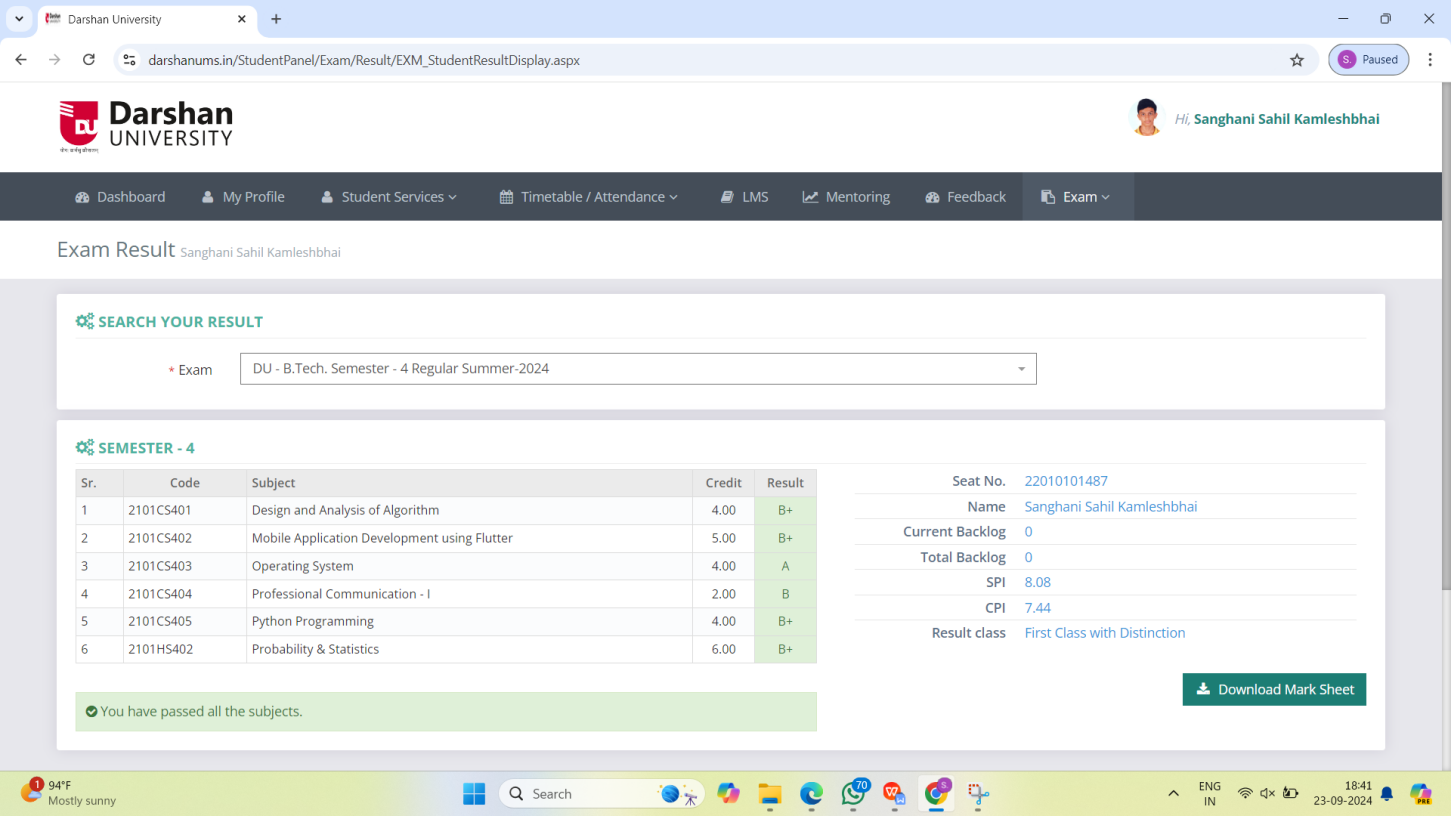
Figure 3.3-11 Screen-3: Add borrower book

**Purpose:** This form will be used by the system’s users to access records and features of the system. The users will input the correct combination of their username and password to be able to login to the system.

Table 3.2‑1 Screen element of Login form

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. | Screen Element | Input Type | O/M | 1/N | Description |
| 1 | Delete | Button | ------ | ------- | Delete button is delete your product. |
| 2 | Back | Button | ------ | ------ | Back button is navigate to the previous slide. |
| 3 | Product Detail | Box | ------ | ------ | Show the product image, product name and price. |
| 4 | Item Increase(+) | Button | ------ | ----- | Increase the item. |
| 5 | Item Decrease  (-) | Button | ------ | ------ | Decrease the item. |
| 4 | Proceed to checkout | Button | ------ | ------ | This button is navigate to the payment screen. |

## Screen-4: Student Result Page



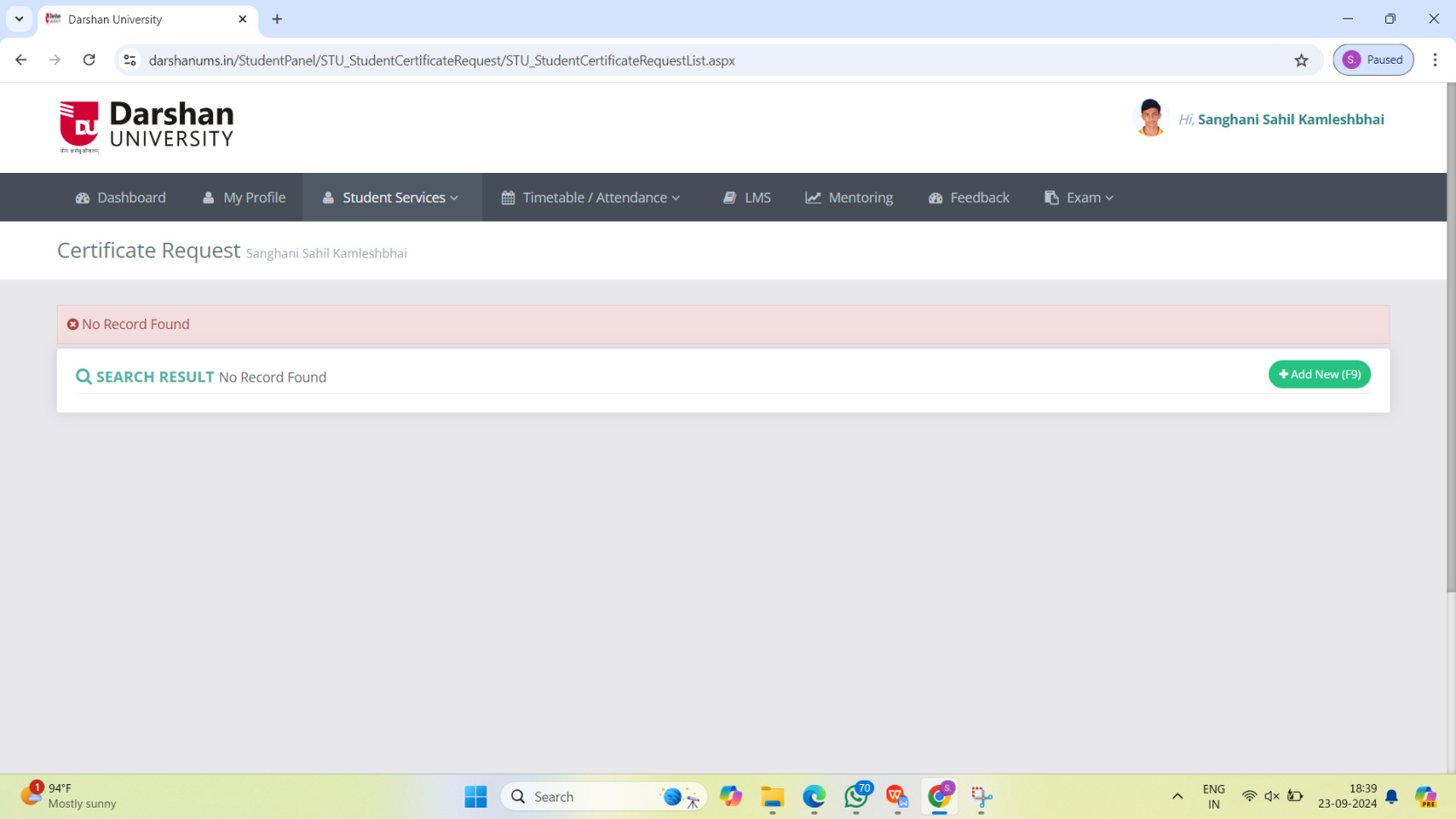
*Figure 3.4-1 Screen-4: student Result Page*

**Purpose:** This Page is Result of Student It Display student’s result of all exam they gave.

*Table 3.4-1 Screen element of student Result Page*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | Exam Dropdown | Dropdown | M | 1 | Dropdown to select the exam |
| **2** | Sr. | Label | M | 1 | Serial number of the subject |
| **3** | Code | Label | M | 1 | Subject code |
| **4** | Subject | Label | M | 1 | Name of the subject |
| **5** | Credit | Label | M | 1 | Credit points of the subject |
| **6** | Result | Label | M | 1 | Result for the subject (Grade) |
| **7** | Seat No. | Label | M | 1 | Seat number of the student |
| **8** | Name | Label | M | 1 | Name of the student |
| **9** | Current Backlog | Label | M | 1 | Current number of backlogs |
| **10** | Total Backlog | Label | M | 1 | Total number of backlogs |
| **11** | SGPA | Label | M | 1 | Semester Grade Point Average |
| **12** | CGPA | Label | M | 1 | Cumulative Grade Point  Average |
| **13** | Result class | Label | M | 1 | Result classification (e.g., First  Class with Distinction) |
| **14** | Download Mark Sheet Button | Button | M | 1 | Button to download the mark sheet |

## Screen-5: Certificate Page



*Figure 3.4-1 Screen-4: student Result Page*

**Purpose:** This is Certificate request from that accept the which kind of certificate student and generate that certificate for student.

*Table 3.2-1 Screen element Certificate request Form*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr.** | **Screen Element** | **Input Type** | **O/M** | **1/N** | **Description** |
| **1** | Search Section | Section | M | 1 | Section to search certificate  requests |
| **2** | Request From Date | Date | O | 1 | Start date for the request  period |
| **3** | Request To Date | Date | O | 1 | End date for the request period |
| **4** | Select Purpose | Dropdown | O | 1 | Dropdown to select the purpose of the  request |
| **5** | Select Status | Dropdown | O | 1 | Dropdown to select the status  of the request |
| **6** | Select  Certificate Type | Dropdown | O | 1 | Dropdown to  select the type of certificate |
| **7** | Enter Certificate No. | Text | O | 1 | Text field to enter the certificate  number |
| **8** | Search Button | Button | M | 1 | Button to  initiate the search |
| **9** | Clear Button | Button | O | 1 | Button to clear the search  fields |
| **10** | Search Result Section | Section | M | 1 | Section  displaying the search results |
| **11** | Request No. | Text | M | N | Unique number for the request |
| **12** | Request Date | Date | M | N | Date and time when the  request was made |
| **13** | Certificate Type Purpose | Text | M | N | Type and  purpose of the certificate |
| **14** | Certificate No. | Text | M | N | Unique number for the  certificate |
| **15** | Generate Date | Date | M | N | Date when the  certificate was generated |
| **16** | Issued Date | Date | M | N | Date when the certificate was  issued |