

Online college admission Management System

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1. Abstract

The College Admission Management System (CAMS) is a user-friendly platform designed for efficient admissions management. CAMS streamlines processes for administrators, offering features like form creation, applicant tracking, and reporting. For users, CAMS provides an intuitive interface to complete applications, check statuses, and receive notifications. This system enhances communication, transparency, and productivity for both administrators and applicants, revolutionizing the admissions experience.

2. Objective and Scope

1. Streamline the admissions process for administrators by providing tools for easy form creation, applicant tracking, and report generation.
2. Create an intuitive platform for users to complete applications, check statuses, and receive timely notifications.
3. Enable transparent communication between administrators and applicants regarding application progress, deadlines, and requirements.
4. Establish a centralized database to store and manage applicant information, ensuring accuracy and accessibility for administrators.
5. Boost productivity for both administrators and users by reducing manual paperwork and automating routine tasks.
6. Facilitate efficient and effective communication channels between administrators and applicants, improving engagement.
7. Implement a modern, digital solution to revolutionize the admissions experience, aligning with the institution's commitment to innovation and excellence .

2.1 Admin

The objective for administrators in the College Admission Management System (CAMS) is to streamline admissions processes, improve organization, and ensure accurate data management through efficient form creation, applicant tracking, and reporting functionalities.

2.2 Students(Users)

The objective for users in the College Admission Management System (CAMS) is to have a user-friendly platform to conveniently submit applications, track their progress, and receive timely updates on their admission status, simplifying the overall application experience.

3. Features

3.1 For Administrators

1. Form Creation: Easily create and customize admission forms tailored to specific programs and requirements.
2. Applicant Tracking: Track the progress of each applicant throughout the admission process, from submission to acceptance.
3. Document Management: Manage and store applicant documents, such as transcripts and letters of recommendation, securely.
4. Communication Tools: Communicate with applicants via built-in messaging systems, emails, and notifications.
5. Reporting and Analytics: Generate reports on admission trends, application statuses, and demographic data for informed decision-making.
6. Interview Scheduling: Schedule and manage interview sessions with applicants efficiently.
7. Application Fee Management: Track and manage application fees and payments for each applicant.

3.2 For Students

1. Online Application: Easily fill out and submit admission applications online from anywhere.
2. Application Status Tracking: Check the status of their application in real-time and receive updates on progress.
3. Document Upload: Upload and submit required documents such as transcripts and essays

directly through the system.

4. Notification Alerts: Receive timely notifications on application deadlines, interview invitations, and acceptance status.

5. Profile Creation: Create and manage personal profiles with academic and extracurricular information.

6. Program Comparison: Compare different programs offered by the institution to make informed choices.

7. Help and Support: Access resources, FAQs, and support services within the system for assistance throughout the application process.

4. Functional and Non-Functional Requirements

4.1 Functional Requirements

For Administrators (Admin):

1. Form Creation (Functional):

- Administrators should be able to create different types of admission forms (undergraduate, graduate, etc.).
- Ability to add and customize fields such as personal information, academic history, and required documents.
- Option to set validation rules for form fields (e.g., mandatory fields, character limits).

2. Applicant Tracking :

- View a dashboard with a list of all applicants and their current status in the admission process.
- Ability to filter and search for applicants based on various criteria(name, application status, program applied for).
- Update applicant status (submitted, under review, accepted, rejected) and add comments or

notes.

3. Document Management :

- Upload and attach applicant documents securely (transcripts, letters of recommendation, personal statements).
- Ability to view, download, and verify submitted documents.
- Notify applicants if any documents are missing or need clarification.

4. Communication Tools :

- Send and receive messages and notifications to applicants within the system.
- Automated emails for important updates such as application received, interview scheduled, acceptance/rejection.
- Option to schedule and send bulk emails for reminders or announcements.

5. Reporting and Analytics :

- Generate standard reports on admission statistics (number of applicants, acceptance rate, demographics).
- Customizable reporting to analyze trends and identify areas for improvement.
- Export reports in various formats (PDF, Excel) for sharing with stakeholders.

6. Interview Scheduling :

- Ability to create interview slots and schedule applicants based on availability.
- Send interview invitations to selected applicants with date, time, and location details.
- Allow applicants to confirm, reschedule, or cancel interviews through the system.

7. Application Fee Management :

- Track application fees paid by applicants and their payment status.
- Provide options for online payment integration for application fees.
- Generate receipts and payment confirmations for applicants.

For Students (Applicants):**1. Online Application :**

- User-friendly interface for filling out and submitting applications online.
- Save and resume functionality for incomplete applications.
- Validation checks to ensure all required fields are filled before submission.

2. Application Status Tracking :

- Login portal for applicants to view their application status in real-time.
- Status updates at each stage of the admission process (application received, under review ,interview scheduled, accepted/rejected).

3. Document Upload :

- Secure document upload feature for submitting transcripts, letters of recommendation, and other required documents.
- Confirmation message upon successful document submission.
- Ability to replace or update documents before the deadline.

4. Notification Alerts (Functional):

- Receive email and in-system notifications for important updates (application received ,interview invitation, admission decision).
- Option to opt-in for SMS notifications for urgent updates.

5. Profile Creation :

- Create a personal profile with academic history, extracurricular activities, and contact information.
- Edit and update profile information as needed.
- Option to import data from platforms like LinkedIn or resume files.

6. Program Comparison :

- View detailed information about various programs offered by the institution.
- Compare program details such as curriculum, faculty, and admission requirements.
- Save and bookmark preferred programs for future reference.

7. Help and Support :

- Access a comprehensive FAQ section within the system for common queries.
- Live chat or support ticket system for real-time assistance.
- Provide contact information for admissions office for direct inquiries.

4.2 Non-Functional Requirements

The College Admission Management System (CAMS) must meet several non-functional requirements to ensure its effectiveness and user satisfaction. These include robust performance, with quick response times and high availability to handle peak loads during application periods. Security measures such as encryption and secure authentication mechanisms are crucial for protecting sensitive applicant data and complying with data protection regulations. The system's usability should prioritize intuitive design and accessibility features to cater to diverse users, promoting ease of use. Scalability is essential to accommodate increasing numbers of users and programs without compromising performance. Reliability is paramount, with minimal downtime and reliable backup systems for continuous availability. Seamless integration with external systems, facilitated by APIs, is necessary for efficient workflows. Compliance with data protection laws, such as GDPR and HIPAA, ensures the security and privacy of applicant information, maintaining trust and legal adherence.

5. Low Level Design

The low-level design for the College Admission Management System (CAMS) involves detailed specifications of its modules and components. This includes the architecture of the system, such as the database structure for storing applicant data, and the user interface design for administrators and applicants. The system will have modules for form creation, applicant tracking, document management, communication tools, reporting, and interview scheduling. Each module will be designed with specific functionalities and interactions, ensuring a seamless and efficient flow of information. Integration points with external systems, such as payment

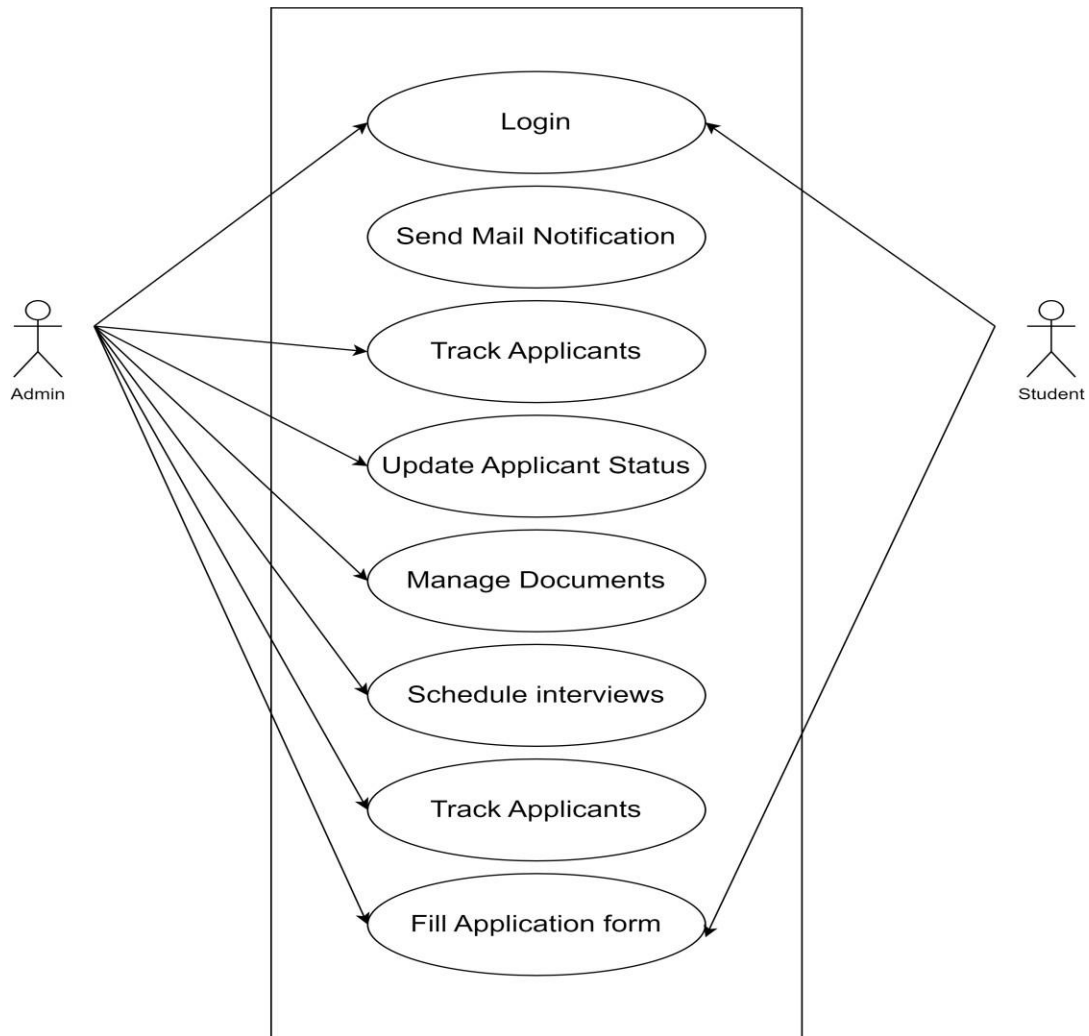
gateways, will also be defined. The design will adhere to best practices for security, performance, and scalability, ensuring a robust and reliable system.

6. High Level Design

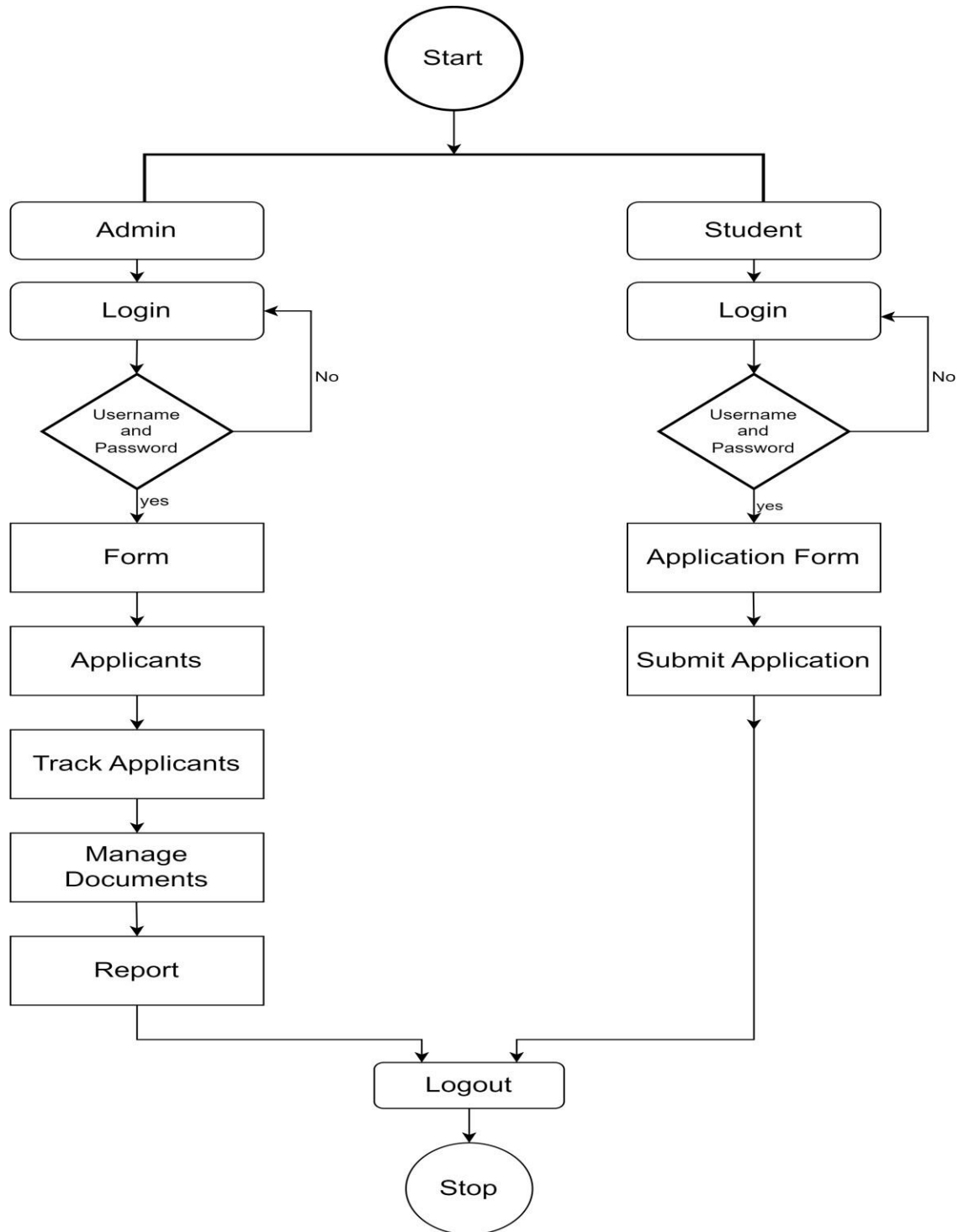
The high-level design for the College Admission Management System (CAMS) outlines the overall structure and components of the system. It includes the main modules such as form creation, applicant tracking, document management, communication tools, reporting, and interview scheduling. The system will follow a client-server architecture, with a web-based interface for administrators and applicants to access the system. The database will store applicant information securely, with encryption and authentication mechanisms in place. Integration with external systems will be facilitated through APIs, ensuring seamless connectivity. The design will prioritize scalability and performance, with load balancing and caching strategies implemented. Overall, the high-level design aims to create a flexible, reliable, and user-friendly system for managing college admissions efficiently.

7. Diagrams

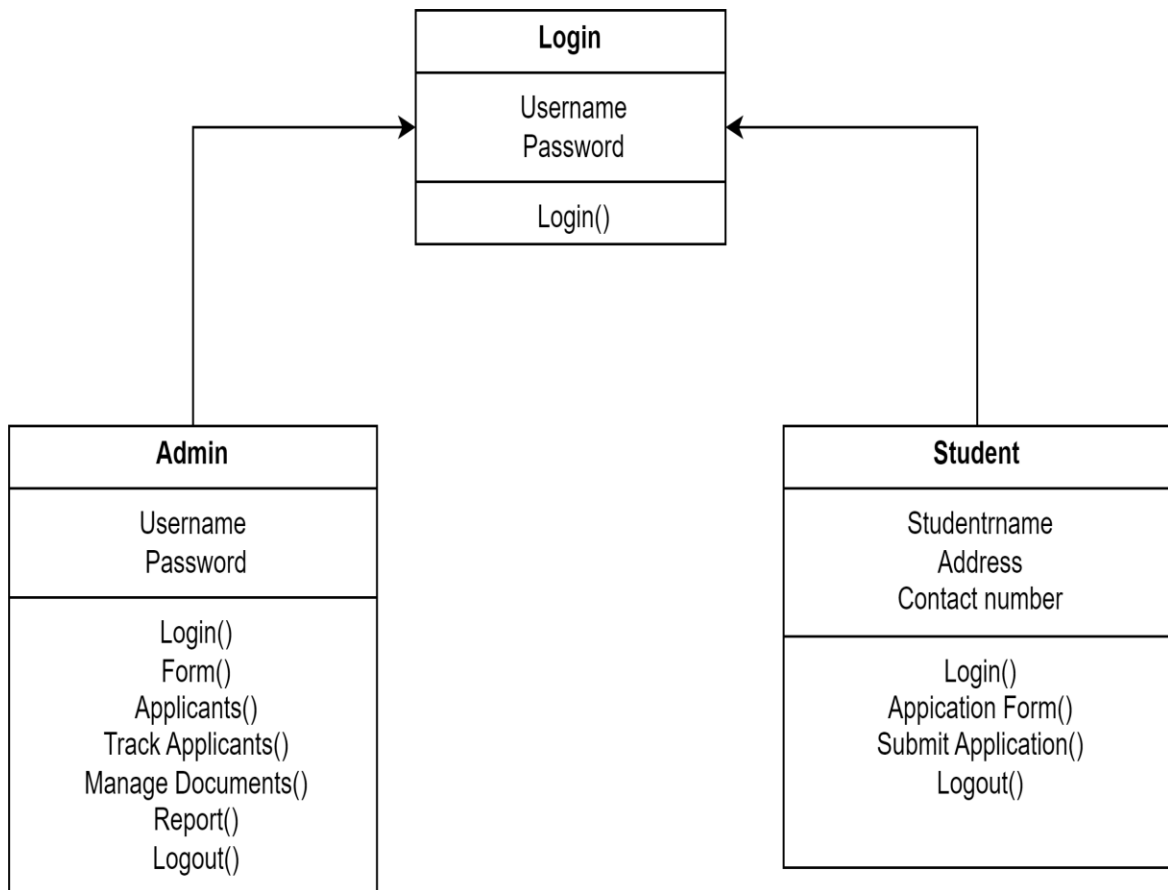
7.1 Use Case Diagram



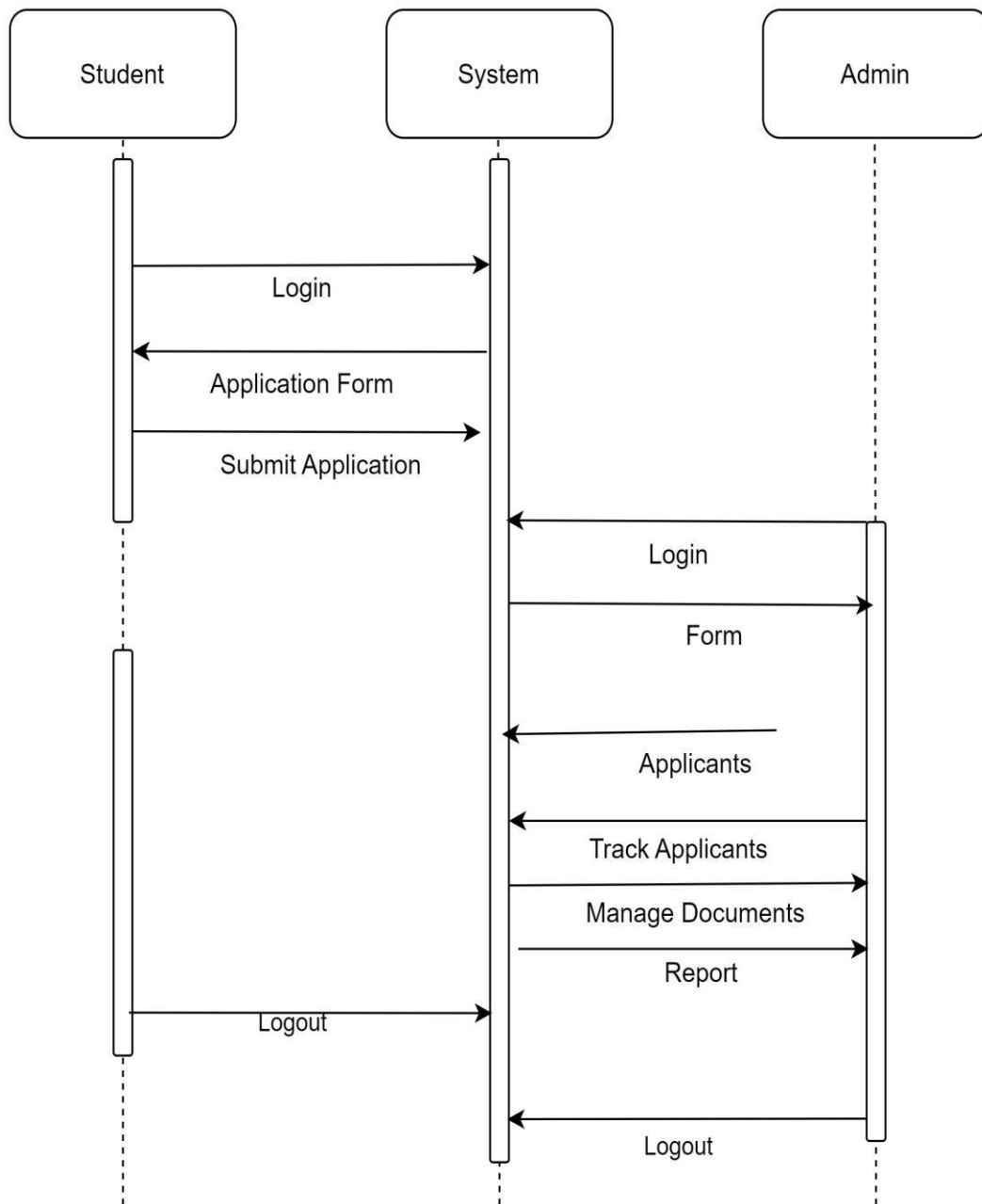
7.2 Flow Diagram



7.3 Class Diagram



7.4 Sequence Diagram



8. Test Cases

Test case	Test purpose	Test condition	Expected outcome	Actual Result
User Registration	Verify successful user registration	All required fields filled correctly	Successful registration with user data stored	User account is created and redirected to login page
User login	Confirm successful user login	Correct credentials entered	Successful login redirects user to dashboard	Authentication is successful and user is redirected to dashboard
Login error	Verify error message for incorrect login credentials	Incorrect username or password	Error message guides user to enter correct credentials	Authentication is successful
Documents Upload	Manage and upload documents	Admins have appropriate permissions and valid documents	Documents are verified and marked as verified	Documents uploaded successfully .

Schedule Interview	Manage time slots and schedule interview	Applicant exists and has been shortlisted	Interview is successfully scheduled	Student can attend the interview
Fill Application Form	Proper details should be filled in the application form	Student accesses the application form	Form fields are displayed for student to fill	Student can able to fill the Application form .
Generate Reports	Generates reports for the details of the application	Adequate data in the system for reports	Admin generates an admission report	The reports including the details of the application can be generated successfully .
Submit Application	Submission of the application from the student	All required fields in the form are filled	Application is successfully submitted	Application is successfully submitted