

**Deccan Education Society's
Fergusson College (Autonomous), Pune - 4
Department of Computer Science**

A
Project Report
On

“*CertiPortal - Academic Certificate Generator*”

In partial fulfillment of Post Graduate course

in

M.Sc. Computer Science – I

(Semester -II)

CSC-560 Project

Under the Guidance of

Prof. Uma Madje

SUBMITTED BY

Dhavale Ajinkya Balasaheb



Deccan Education Society's
Fergusson College (Autonomous), Pune
Department of Computer Science

CERTIFICATE

This is to certify that the project entitled **CertiPortal - Academic Certificate Generator** submitted by Dhavale Ajinkya Balasaheb.

in partial fulfillment of the requirement of the completion of M.Sc. (C.S)-I [Semester-II], has been carried out by them under our guidance satisfactorily during the academic year 2024-2025.

Place: Pune

Date: 15 / 04 /2025

Dr. Kavita Khobragade

Head,

**Department of Computer Science
Fergusson College (Autonomous), Pune**

Project Guide:

1. Prof. Uma Madje

Examiners Name

Sign

1. _____

2. _____

Index

Sr. No	Table of Content	Page No
1	Introduction	4
	1.1 Existing System	4
	1.2 Need of the System	5
	1.3 Overview of the Project	6
2	Analysis	8
	2.1 Feasibility Study	8
	2.1.1 Technical Feasibility	8
	2.1.2 Economical Feasibility	8
	2.1.3 Operational Feasibility	9
	2.2 Hardware and Software requirement	9
3	Design	11
	3.1 Database Table designing	11
	3.2 Software Engineering Diagrams	17
	3.3 Input & Output Screens	23
4	Testing	34
	4.1 Importance of testing	34
	4.2 Types of Testing	35
	4.3 Test Cases	36
5	Reports	40
6	Drawbacks and Limitations	46
	6.1 Drawbacks	46
	6.2 Limitations	46
7	Future Enhancement and Conclusion	47
	7.1 Future Enhacement	47
	7.2 Conclusion	48
8	Bibliography	48

1. Introduction

This project focuses on creating a platform to automate the process of requesting, generating, and managing certificates. By streamlining these tasks, the platform helps reduce manual effort and ensures a more efficient, transparent system for students, administrators, and departmental staff. Students can easily request certificates, track notifications, and collect them, while administrators and departments like Library, Accounts, and Scholarship handle verification and approvals. Additionally, the platform supports real-time updates, ensuring that all parties have access to the most accurate information. It also helps in maintaining a secure and centralized database for certificates, reducing the risk of data loss or inaccuracies. The system enhances decision-making and provides a seamless user experience, offering easy access to important information and generating insightful reports for a better educational experience.

1.1. Existing System

In the existing system, if a student requires a Transfer Certificate or any other academic certificate, the process involves manually filling out an offline form. This method suffers from several drawbacks:

- ❖ **Inefficient Data Collection**

Offline forms do not capture or process data in a structured manner, leading to inconsistencies and incomplete records.

- ❖ **Lack of Centralized Database**

Information is scattered and not stored in a central location, increasing the risk of data loss or misplacement of documents.

- ❖ **Loss of Documents**

Physical documents are prone to loss, damage, or misfiling, which complicates retrieval and verification.

- ❖ **No Real-Time Notifications**

Students do not receive timely updates regarding the status of their requests, causing uncertainty and delays in the certificate issuance process.

- ❖ **Repetitive Office Visits**

Students often need to visit the office repeatedly to check on the status of their requests or to resubmit forms, which is time-consuming and inefficient.

- ❖ **Limited Transparency**

The manual process lacks transparency, making it difficult for students to track the progress of their requests or understand the reasons for any delays or rejections.

- ❖ **Error-Prone Manual Entry**

The reliance on manual data entry increases the likelihood of errors, which can lead to further delays and complications in processing certificate requests.

- ❖ **Ineffective Communication Between Departments**

Lack of integration among departments (e.g., Library, Accounts, Scholarship) results in fragmented verification processes and delays in certificate generation.

- ❖ **Environmental Impact**

The reliance on paper-based processes is not environmentally friendly and contributes to unnecessary paper waste.

- ❖ **Inefficient Record-Keeping and Retrieval**

Searching for archived records or verifying past requests is cumbersome due to the absence of a digital search functionality.

1.2. Need of the System

- ❖ **Automation of Processes**

Eliminate manual form filling by introducing an online request system.

- ❖ **Centralized Data Management**

Maintain all certificate-related information in a single, secure database to reduce data loss and simplify record retrieval.

- ❖ **Real-Time Notifications**

Provide instant updates on the status of certificate requests to keep students informed without the need for repeated office visits.

- ❖ **Streamlined Verification**

Integrate various departments (Library, Accounts, Scholarship) into a unified system to expedite verification and approval processes.

- ❖ **Error Reduction**

Minimize the likelihood of errors associated with manual data entry by automating data capture and validation.

- ❖ **Enhanced Transparency**

Enable students and staff to track requests throughout the process, ensuring clarity on pending, approved, or rejected applications.

❖ **Improved User Experience**

Offer a user-friendly interface that allows students to easily submit requests, manage documents, and check notifications.

❖ **Efficient Record-Keeping**

Facilitate quick and efficient search and retrieval of archived certificate data for future reference.

❖ **Cost and Time Efficiency**

Reduce administrative overhead and processing time, ultimately saving resources for both the institution and students.

❖ **Sustainable Practices**

Reduce reliance on paper-based forms, supporting environmental sustainability by digitizing the certificate request process.

1.3. Overview of the Project

The project introduces an automated platform that streamlines the academic certificate process by replacing traditional paper-based methods. The system is divided into two main modules and incorporates three essential submodules for enhanced verification, catering to specific user roles:

➤ **Main Modules**

❖ **Student Module**

- **Login and Dashboard Access :** Secure login grants students access to a personalized dashboard displaying pending requests, approved certificates, and notifications.
- **Profile Management :** Students can update personal details (name, address, contact information, academic records) and upload necessary documents (e.g., ID proof).
- **Certificate Request Submission :** Requests can be made for various certificates such as Transfer Certificate, Bonafide Certificate, and Attendance Certificate.
- **Request Tracking:**
 - **Pending:** Awaiting admin verification.
 - **Approved:** Ready for digital download or physical collection.
 - **Disapproved:** Rejected with clear reasons, allowing students to resolve issues resubmit.

- **Document Management:**
 - Facilitates the upload, update, and management of documents.
 - Approved certificates are available for digital download, and students receive email notifications regarding the collection date and location for physical copies.
- **Secure Payment Handling :** Ensures safe processing of certificate processing fees.

❖ **Admin Module**

- **Secure Login:** Admins log in using secure credentials to ensure authorized access.
- **Personalized Dashboard:**
 - Displays pending, approved, and disapproved requests.
 - Shows real-time notifications and reminders.
 - Provides an overview of system statistics, such as daily request counts and pending verifications.
- **Detailed Review Process :** Admins meticulously check certificate requests against student records.
- **Integration with Submodules:**
 - **Library:** Confirms no pending fines or overdue items.
 - **Account:** Verifies that all fees and dues are cleared.
 - **Scholarship:** Validates scholarship details and related records.
- **Approval Process:**
 - Upon successful verification, requests are approved.
 - The system auto-generates the corresponding certificates.
 - Notifications are sent to students regarding their approved status.
- **Disapproval Process:**
 - Requests with missing or incorrect details are rejected.
 - Specific reasons for disapproval are provided.
 - Instructions for corrections and resubmission are clearly communicated.
- **Automated Certificate Generation :** The system automatically generates certificates for approved requests.
- **Certificate History Log:** Maintains a record of all generated certificates for audit and future reference.

➤ **Sub Modules**

- ❖ **Library Module :** Checks for any pending issues such as overdue books or fines, confirming that all library requirements are fulfilled.
- ❖ **Account Module :** Verifies that students have no outstanding fees or dues, ensuring financial compliance before certificate issuance.
- ❖ **Scholarship Module :** Confirms scholarship details, if applicable, to ensure eligibility and accurate record keeping.

2. Analysis

2.1. **Feasibility Study**

2.1.1. Technical Feasibility

- ❖ **Technology Stack:** The project will be built using established technologies (HTML, CSS, JavaScript, Bootstrap, Spring Boot, and MySQL), ensuring ample support and community expertise.
- ❖ **System Architecture:** The modular design, including separate modules for Students, Admins, and Verification (Scholarship, Account, Library), allows for easier maintenance and future scalability.
- ❖ **Development Expertise:** The required technical skills for frontend development, backend integration, and database management are readily available within the development team.

2.1.2. Economical Feasibility

- ❖ **Cost Savings:** Automating the certificate management process reduces the need for manual labour and physical resources, leading to long-term cost savings.
- ❖ **Initial Investment vs. ROI (Return on investment):** While there is an initial investment in software development, training, and deployment, the reduction in administrative overhead and increased efficiency promise a high return on investment
- ❖ **Resource Utilization:** The project leverages existing IT infrastructure and integrates with current university systems, minimizing additional expenses.
- ❖ **Scalability:** A scalable solution means that the system can grow with increased demand without significant additional cost.

2.1.3. Operational Feasibility

- ❖ **User Acceptance:** The system provides an intuitive and user-friendly interface for both students and administrators, which is expected to lead to high user adoption.
- ❖ **Process Efficiency:** Automation of certificate requests, real-time notifications, and integrated verification processes will streamline operations and reduce processing time.
- ❖ **Training and Support:** Minimal training is required as the system is designed with simplicity in mind, and support resources can be developed as part of the implementation process.
- ❖ **Reliability and Maintenance:** The use of proven technologies ensures system reliability, while modularity simplifies ongoing maintenance and troubleshooting.

2.2. Hardware and Software Requirements

➤ Minimum Hardware Requirements

- ❖ **Server:**
 - **Processor:** Dual-core CPU (or equivalent).
 - **Memory:** Minimum 4 GB RAM.
 - **Storage:** At least 20 GB of available disk space.
 - **Network:** Reliable internet connection for hosting and access.
- ❖ **Client Devices:**
 - **Device:** Desktop, laptop, tablet or mobile.
 - **Memory:** Basic modern computer sufficient to run a web browser.
 - **Display:** Screen resolution that supports standard web interfaces.
 - **Internet:** Stable connection to access the online platform.

➤ **Software Requirements**

❖ **Operating System (Server):** Linux (e.g., Ubuntu Server) or Windows Server.

❖ **Backend:**

- **Programming Environment:** Java Development Kit (JDK 17 or higher)
- **Framework:** Spring Boot.
- **Application Server:** Embedded server (e.g., Tomcat via Spring Boot)

❖ **Database:** MySQL.

❖ **Frontend:**

- **Languages:** HTML, CSS, JavaScript.
- **Framework:** Bootstrap, AJAX.
- **Library:** jQuery.

❖ **Development Tools:**

- IDE(Integrated Development Environment): Visual Studio Code, Spring Tool Suit
- Version Control System : Git

❖ **Browser (Client Side):**

- Latest version of any modern web browser (e.g., Google Chrome, Mozilla Firefox)

3. Design

3.1. Database Table Designing

1) Admission Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	aadhar_no	varchar	255	NOT NULL, INDEX
3	admission_generated_id	varchar	255	NOT NULL, INDEX
4	email	varchar	255	NOT NULL, INDEX
5	first_name	varchar	255	NOT NULL
6	flag	int	11	NOT NULL
7	last_name	varchar	255	NOT NULL
8	middle_name	varchar	255	NULL
9	password	varchar	255	NOT NULL
10	start_date	varchar	255	NOT NULL

2) Personal Details Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	abc_number	varchar	255	NULL
3	blood_group	varchar	255	NOT NULL
4	caste	varchar	255	NOT NULL
5	dob	varchar	255	NOT NULL
6	family_income	varchar	255	NOT NULL
7	father_name	varchar	255	NOT NULL
8	father_occupation	varchar	255	NOT NULL
9	gender	varchar	255	NOT NULL
10	handicap	varchar	255	NULL
11	handicap_percentage	varchar	255	NULL
12	marital_status	varchar	255	NOT NULL
13	mobile	varchar	255	NOT NULL
14	mother_name	varchar	255	NOT NULL

15	mother_occupation	varchar	255	NOT NULL
16	mother_tongue	varchar	255	NOT NULL
17	nationality	varchar	255	NOT NULL
18	occupation	varchar	255	NOT NULL
19	pan_number	varchar	255	NULL
20	parent_mobile	varchar	255	NULL
21	place_of_birth	varchar	255	NOT NULL
22	religion	varchar	255	NOT NULL
23	student_id	varchar	255	NOT NULL
24	sub_caste	varchar	255	NOT NULL

3) Address Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	permanent_address	varchar	255	NOT NULL
3	permanent_city	varchar	255	NOT NULL
4	permanent_country	varchar	255	NOT NULL
5	permanent_district	varchar	255	NOT NULL
6	permanent_pincode	varchar	255	NOT NULL
7	permanent_state	varchar	255	NOT NULL
8	permanent_taluka	varchar	255	NOT NULL
9	same_as_permanent	bit	1	NOT NULL
10	student_id	varchar	255	NOT NULL
11	temporary_address	varchar	255	NOT NULL
12	temporary_city	varchar	255	NOT NULL
13	temporary_country	varchar	255	NOT NULL
14	temporary_district	varchar	255	NOT NULL
15	temporary_pincode	varchar	255	NOT NULL
16	temporary_state	varchar	255	NOT NULL
17	temporary_taluka	varchar	255	NOT NULL

4) Academic Details Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	admission_year	varchar	255	NOT NULL
3	course	varchar	255	NOT NULL
4	department	varchar	255	NOT NULL
5	full_name	varchar	255	NOT NULL
6	medium	varchar	255	NOT NULL
7	previous_college_name	varchar	255	NOT NULL
8	previous_course_name	varchar	255	NOT NULL
9	previous_passing_year	varchar	255	NOT NULL
10	previous_year_percentage	varchar	255	NOT NULL
11	section	varchar	255	NOT NULL
12	session	varchar	255	NOT NULL
13	student_id	varchar	255	NOT NULL

5) Student Documents Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	photo	varchar	255	NULL
3	sign	varchar	255	NULL
4	student_id	varchar	255	NOT NULL

6) Transfereence Certificate Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	account_approval	int	11	NOT NULL
3	address	varchar	255	NOT NULL
4	admin_approval	int	11	NOT NULL

5	new_admission_type	varchar	255	NOT NULL
6	alternate_no	varchar	255	NOT NULL
7	application_date	datetime	6	NOT NULL
8	application_fee	double	-	NOT NULL
9	birth_date_proof	varchar	255	NOT NULL
10	caste_category	varchar	255	NOT NULL
11	certificate_reason	varchar	255	NOT NULL
12	certificate_type	varchar	255	NOT NULL
13	college_name	varchar	255	NOT NULL
14	contact_no	varchar	255	NOT NULL
15	course	varchar	255	NOT NULL
16	department	varchar	255	NOT NULL
17	dob	varchar	255	NOT NULL
18	dob_in_words	varchar	255	NOT NULL
19	email_id	varchar	255	NOT NULL
20	first_name	varchar	255	NOT NULL
21	gender	varchar	255	NOT NULL
22	identity_proof	varchar	255	NOT NULL
23	last_cgpa	varchar	255	NOT NULL
24	last_class	varchar	255	NOT NULL
25	last_exam_month	varchar	255	NOT NULL
26	last_exam_name	varchar	255	NOT NULL
27	last_exam_year	varchar	255	NOT NULL
28	last_grade	varchar	255	NOT NULL
29	last_name	varchar	255	NOT NULL
30	last_result	varchar	255	NOT NULL
31	last_seat_no	varchar	255	NOT NULL
32	last_sem	varchar	255	NOT NULL
33	latest_marksheet	varchar	255	NOT NULL
34	library_approval	int	11	NOT NULL
35	middle_name	varchar	255	NOT NULL
36	new_course	varchar	255	NOT NULL
37	passing_certificate	varchar	255	NOT NULL
38	payment_date	datetime	6	NOT NULL
39	payment_id	varchar	255	NOT NULL
40	payment_status	varchar	255	NOT NULL
41	processing_fee	double	-	NOT NULL
42	proof_of_admission	varchar	255	NOT NULL
43	scholarship_approval	int	11	NOT NULL
44	student_id	varchar	255	NOT NULL
45	tc_type	varchar	255	NOT NULL
46	total_fee	double	-	NOT NULL

47	university_name	varchar	255	NOT NULL
48	issue_date	datetime	6	NOT NULL

7) Bonafide Certificate Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	admin_approval	int	11	NOT NULL
3	application_date	datetime	6	NOT NULL
4	birth_proof_path	varchar	255	NOT NULL
5	certificate_reason	varchar	255	NOT NULL
6	certificate_type	varchar	255	NOT NULL
7	course	varchar	255	NOT NULL
8	department	varchar	255	NOT NULL
9	division	varchar	255	NOT NULL
10	dob	varchar	255	NOT NULL
11	dob_in_words	varchar	255	NOT NULL
12	fee_receipt_path	varchar	255	NOT NULL
13	full_name	varchar	255	NOT NULL
14	gender	varchar	255	NOT NULL
15	identity_proof_path	varchar	255	NOT NULL
16	local_address	varchar	255	NOT NULL
17	payment_id	varchar	255	NOT NULL
18	payment_status	varchar	255	NOT NULL
19	permanent_address	varchar	255	NOT NULL
20	student_id	varchar	255	NOT NULL
21	total_fees	double	-	NOT NULL
22	year	varchar	255	NOT NULL
23	issue_date	datetime	6	NOT NULL

8) Attendance Certificate Table

Sr. No	Name	Type	Length	Constraints
1	id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	admin_approval	int	11	NOT NULL
3	application_date	datetime	6	NOT NULL

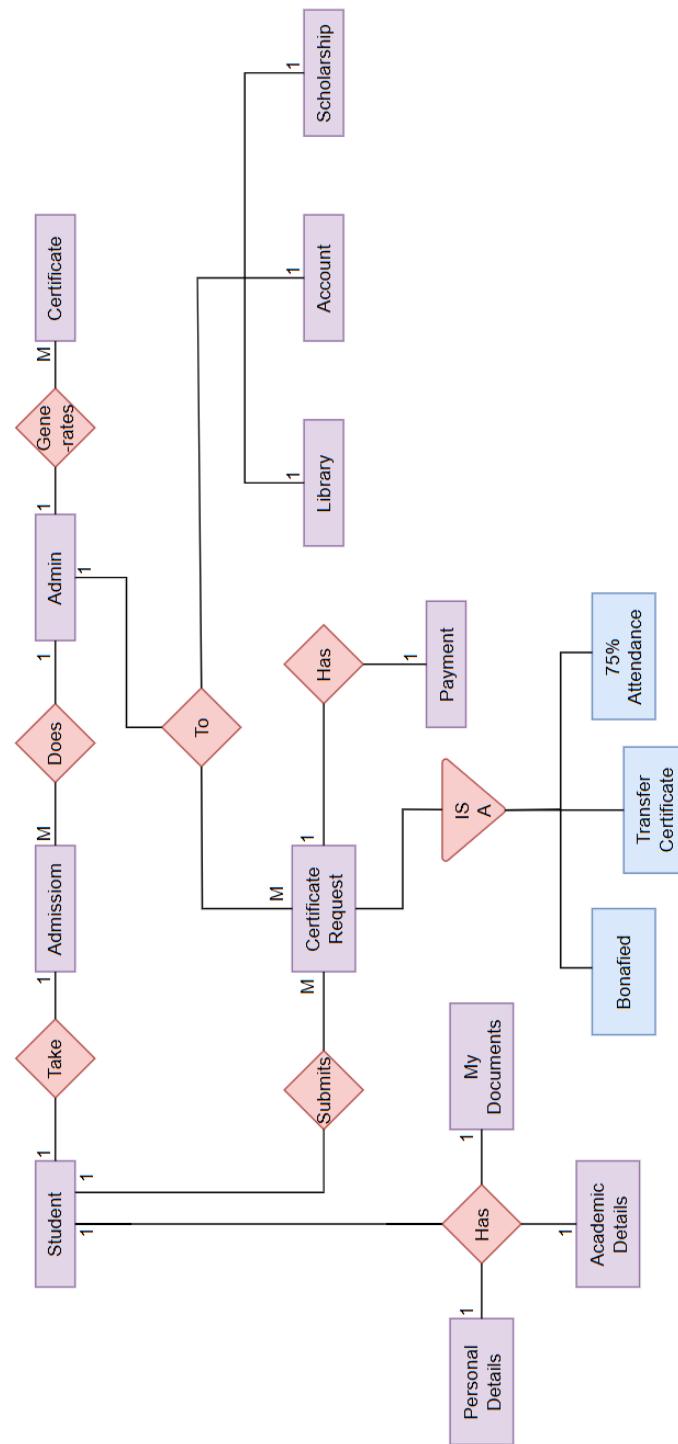
4	certificate_reason	varchar	255	NOT NULL
5	certificate_type	varchar	255	NOT NULL
6	course	varchar	255	NOT NULL
7	department	varchar	255	NOT NULL
8	division	varchar	255	NOT NULL
9	fee_receipt_path	varchar	255	NOT NULL
10	from_date	varchar	255	NOT NULL
11	full_name	varchar	255	NOT NULL
12	gender	varchar	255	NOT NULL
13	identity_proof_path	varchar	255	NOT NULL
14	issue_date	datetime	6	NOT NULL
15	student_id	varchar	255	NOT NULL
16	teacher_name	varchar	255	NOT NULL
17	teacher_verified_date	varchar	255	NOT NULL
18	to_date	varchar	255	NOT NULL
19	verification_letter_pa th	varchar	255	NOT NULL
20	year	varchar	255	NOT NULL

9) Admin Table

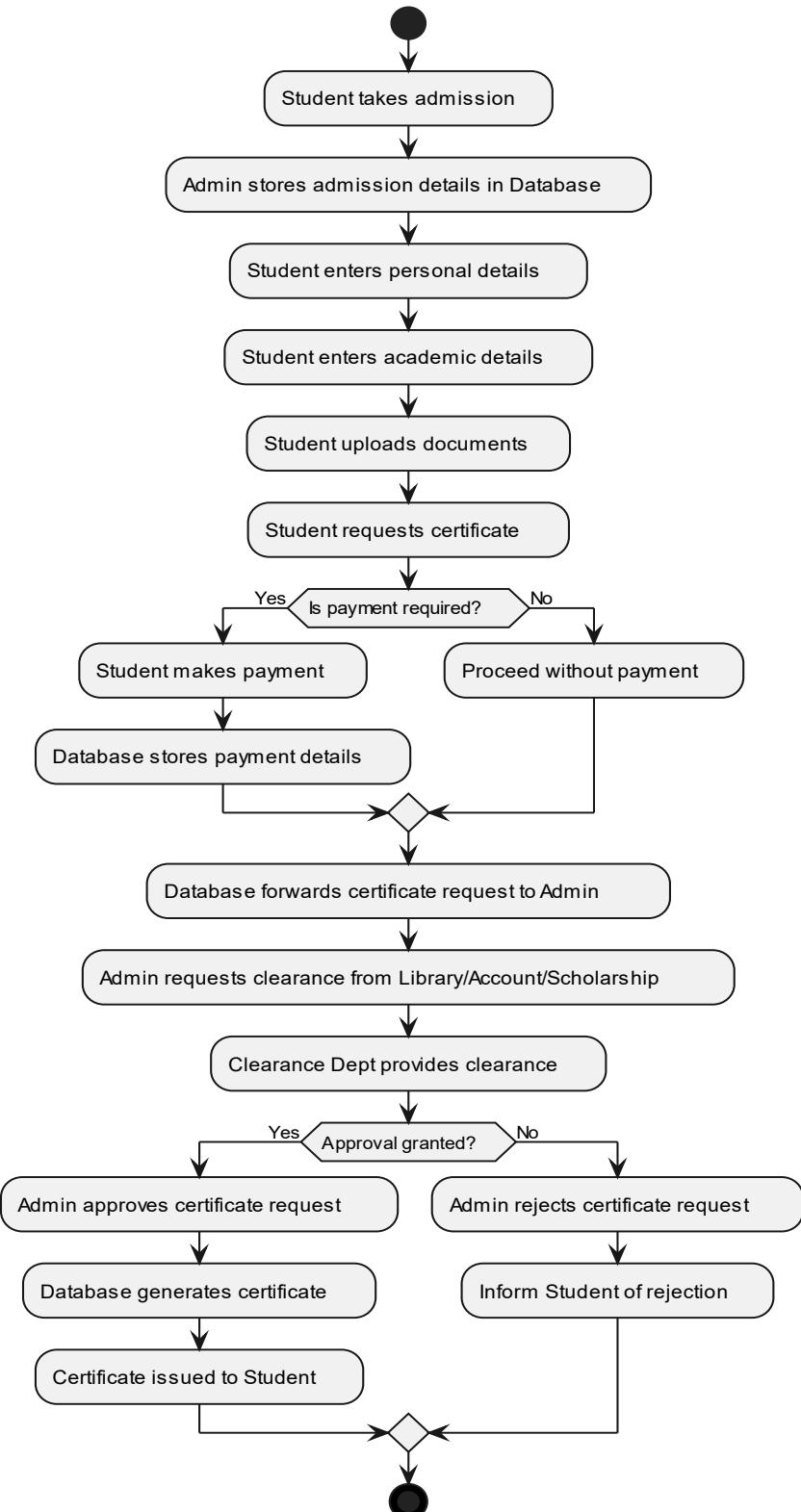
Sr. No	Name	Type	Length	Constraints
1	admin_id	bigint	20	PRIMARY KEY, AUTO_INCREMENT, NOT NULL
2	password	varchar	255	NOT NULL
3	role	varchar	255	NOT NULL
4	username	varchar	255	NOT NULL, INDEX

3.2. Software Engineering Diagram

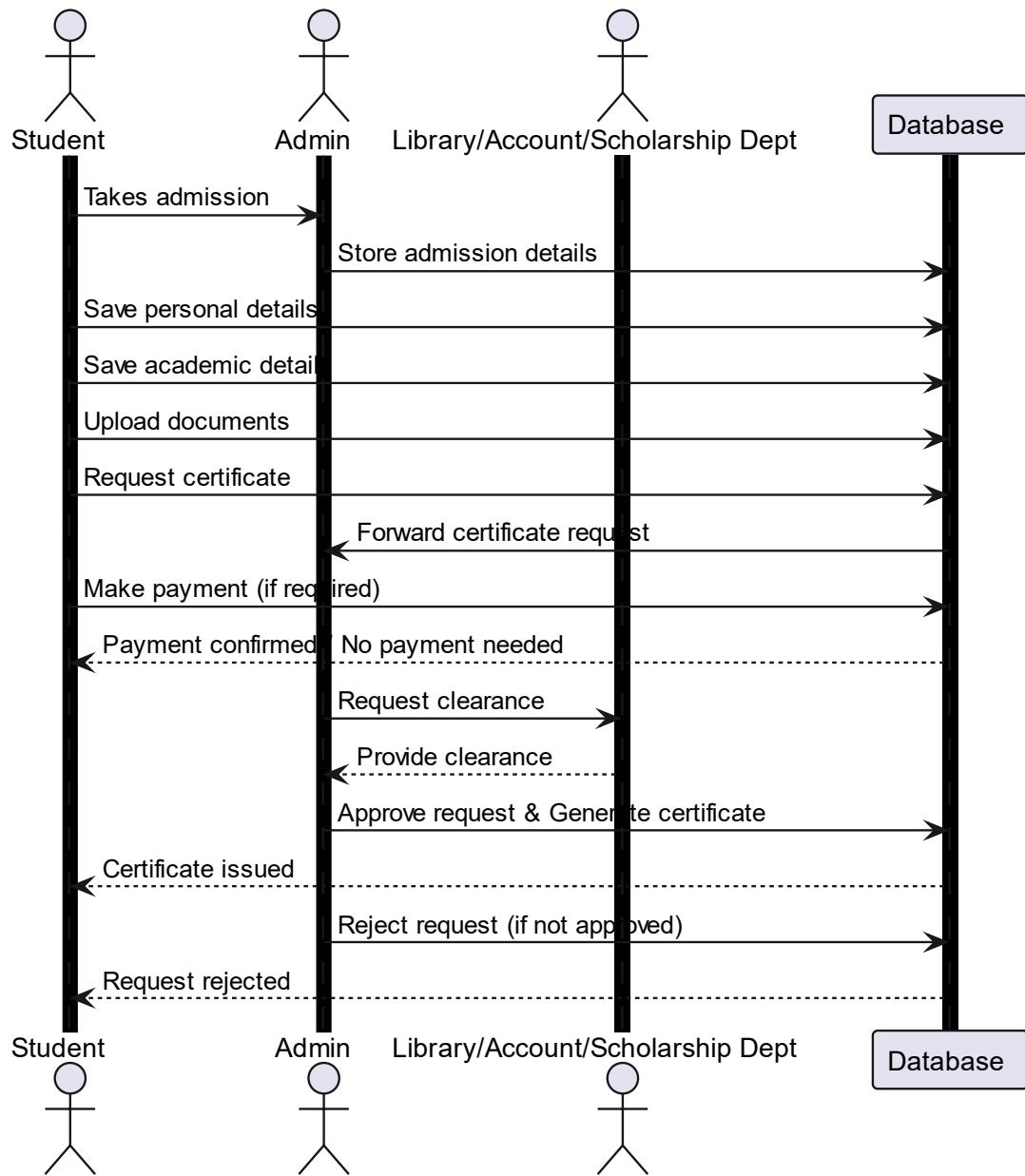
1) Entity Relationship Diagram



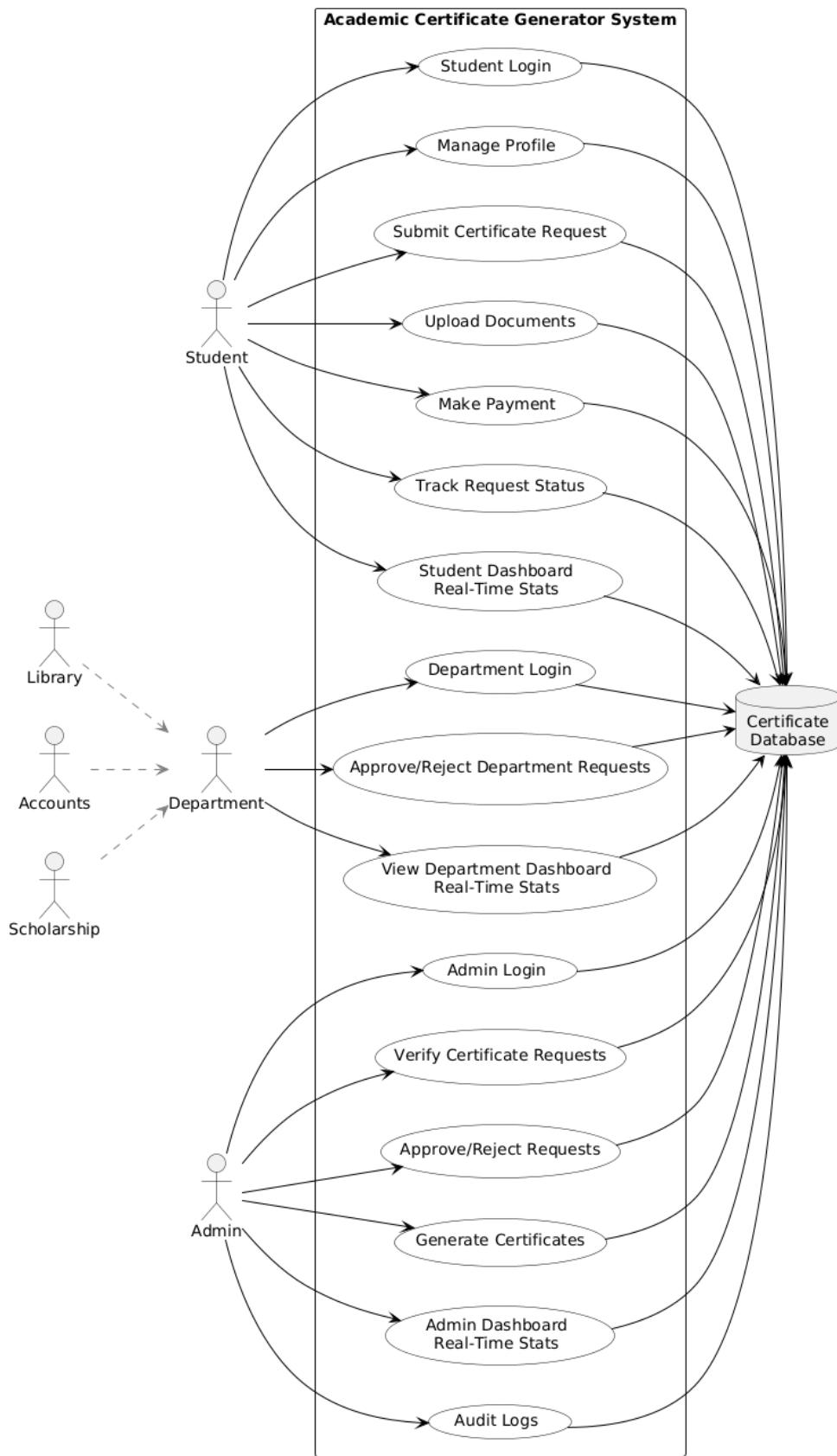
2) Activity Diagram



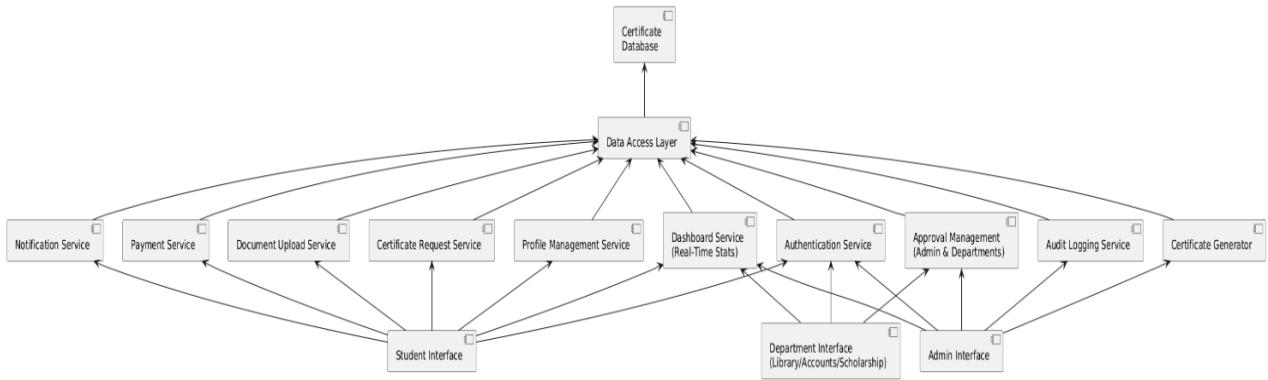
3) Sequence Diagram



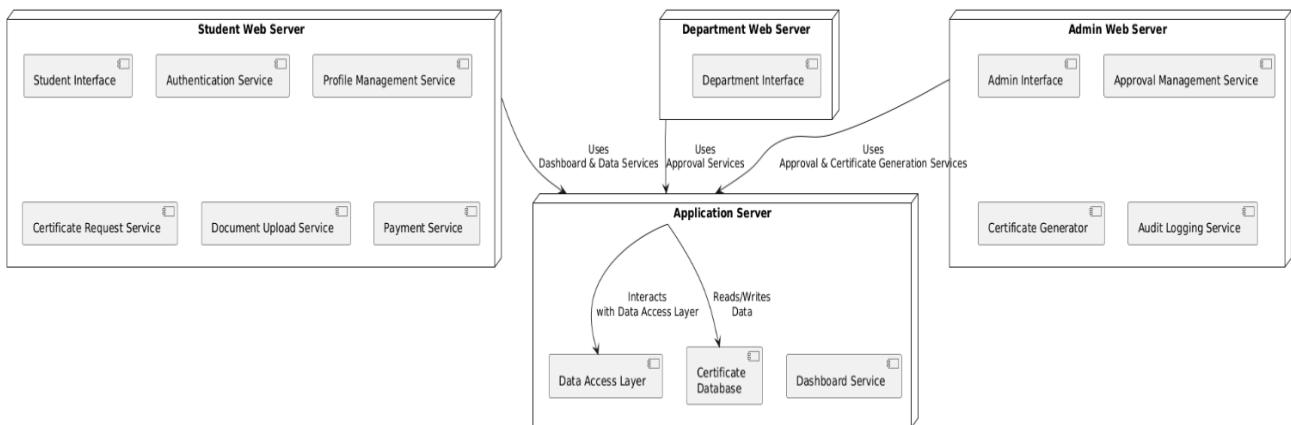
4) Use Case Diagram



5) Component Diagram

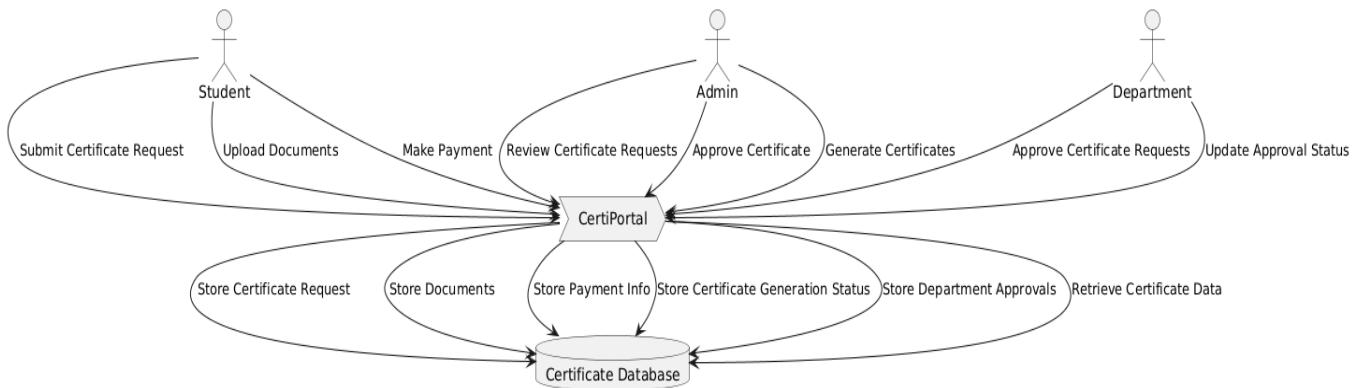


6) Deployment Diagram

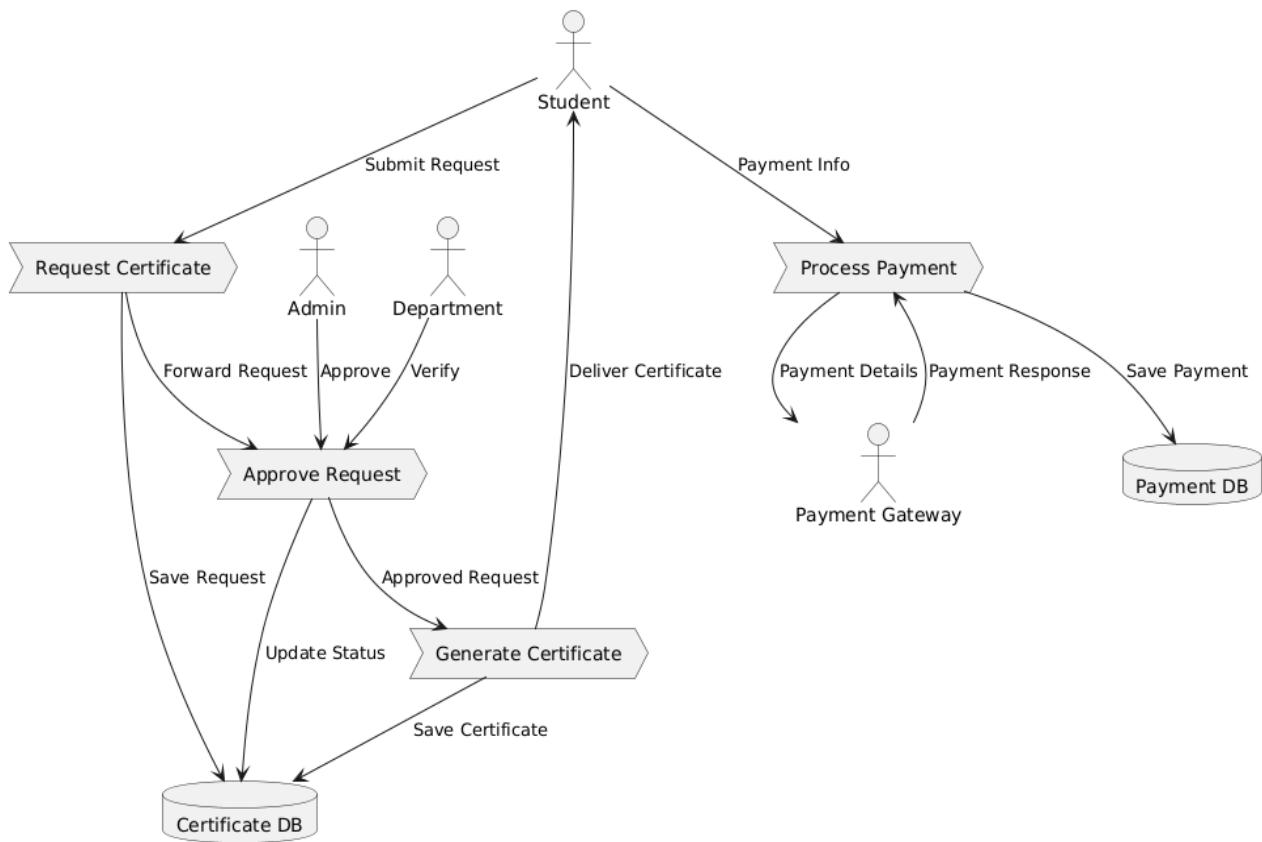


7) DFD

Level 0 DFD



Level 1 DFD



3.3. Input and Output Screens

1. Student And Admin Login Screens

Deccan Education Society's
FERGUSSON COLLEGE
(AUTONOMOUS)

PUNE - 411004, MAHARASHTRA, INDIA.
UGC Special Heritage Status | UGC - College of Excellence (CE) | Reaccredited with "A++" Grade by NAAC (4th Cycle)



Certificate Generation Desk



Student Login

Student Login

 Enter User Id

 Enter Password

[Forgot Password?](#)

 Login

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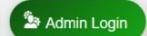
PUNE - 411004, MAHARASHTRA, INDIA.
UGC Special Heritage Status | UGC - College of Excellence (CE) | Reaccredited with "A++" Grade by NAAC (4th Cycle)



Certificate Generation Desk



Student Login

Admin Login

 Enter Username

 Enter Password

 Login  Back

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2. Student Module Screen

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile** (highlighted in red)
- Personal Details
- Address
- Academic Details
- Photo & Sign

CERTIFICATE

- My Certificate

Personal Details

First Name <input type="text" value="Ganesh"/> ✓	Middle Name <input type="text" value="Rajendra"/> ✓	Last Name <input type="text" value="Mali"/> ✓
Email <input type="text" value="ganeshmali.fc@gmail.com"/> ✓	Mobile Number <input type="text" value="9021817579"/> ✓	Parent Mobile Number <input type="text" value="8208302143"/> ✓
Gender <input type="text" value="Male"/> ✓	Date of Birth <input type="text" value="07-09-2003"/> ✓	Place of Birth <input type="text" value="Karanji Bk"/> ✓
Blood Group <input type="text" value="O+"/> ✓	Marital Status <input type="text" value="Single"/> ✓	Mother Tongue <input type="text" value="Marathi"/> ✓
Student Occupation <input type="text" value="Student"/> ✓	Father's Name <input type="text" value="Rajendra"/> ✓	Father's Occupation <input type="text" value="None"/> ✓
Mother's Name <input type="text" value="Betabai"/> ✓	Mother's Occupation <input type="text" value="House Wife"/> ✓	Category <input type="text" value="OBC"/> ✓
Subcaste <input type="text" value="Ful Mali"/> ✓	Nationality <input type="text" value="Indian"/> ✓	Religion <input type="text" value="Hindu"/> ✓
Handicapped <input type="text" value="No"/> ✓	Handicap Percentage <input type="text" value="Handicap Percentage %"/> ✓	Aadhar Number <input type="text" value="789478941236"/> ✓
PAN Number <input type="text" value="GJHGJ6458N"/> ✓	Family Income <input type="text" value="₹ 30000"/> ✓	ABC Number <input type="text" value="454565123456"/> ✓

Save

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CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile** (highlighted in red)
- Personal Details
- Address
- Academic Details
- Photo & Sign

CERTIFICATE

- My Certificate

Academic Details

Full Name as per Last Marksheets <input type="text" value="MALI GANESH RAJENDRA"/>	Session <input type="text" value="Select Session"/>	Admission Year <input type="text" value="2025"/>
Department <input type="text" value="Computer Science & Applications"/>	Course <input type="text" value="Select Course"/>	Student ID <input type="text" value="20250001"/>
Medium <input type="text" value="English"/>	Section <input type="text" value="A"/>	Previous College Name <input type="text" value="HPT ARTS AND RYK SCIENCE COLLEGE NASHI"/>
Previous Course <input type="text" value="B.Sc. Computer Science"/>	Previous Course Passing Year <input type="text" value="2024"/>	Previous Year Percentage <input type="text" value="97.36 %"/>

Submit Form

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CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile** (selected)
- Personal Details
- Address
- Academic Details
- Photo & Sign

CERTIFICATE

- My Certificate

Address Details

PERMANENT ADDRESS

Country <input type="text" value="India"/>	State <input type="text" value="Maharashtra"/>	District <input type="text" value="Nashik"/>
Looks good!		
City <input type="text" value="Nashik"/>	Taluka <input type="text" value="Nashik"/>	Pin Code <input type="text" value="422009"/>
Looks good!		
Permanent Address <input type="text" value="Yudhishtir society pandav nagari indira nagar nashik"/>		
Looks good!		

TEMPORARY ADDRESS

Same as Permanent Address

Country <input type="text" value="India"/>	State <input type="text" value="Maharashtra"/>	District <input type="text" value="Pune"/>
Looks good!		
City <input type="text" value="Pune"/>	Taluka <input type="text" value="Pune"/>	Pin Code <input type="text" value="411005"/>
Looks good!		
Temporary Address <input type="text" value="Kohinoor estatenear wakdewadi bus stand shivaji nagar pune"/>		
Looks good!		

Submit

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CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile** (selected)
- Personal Details
- Address
- Academic Details
- Photo & Sign

CERTIFICATE

- My Certificate

Photo and Signature Details

Student Photo
 Photo New 2 (1).jpg


Student Signature
 WhatsApp ima...21.23 AM.jpeg


Save **Cancel**

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Certificate Applications:

The screenshot shows the 'Apply For Certificate' page. On the left sidebar, under 'CERTIFICATE', 'My Certificate' is selected. The main form has the following fields:

- Select Certificate: Transference Certificate (highlighted with a green border and a 'Looks good!' message)
- Certificate Type: Original (radio button selected)
- Reason for Request: For Future Education (highlighted with a green border and a 'Looks good!' message)

At the bottom right are 'Next' and 'Cancel' buttons.

1) Transference Certificate

The screenshot shows the 'Transference Certificate Application' page, Step 1: Personal Information. The sidebar shows 'My Certificate' is selected. The form has four steps: 1. Personal Information (current step), 2. Qualification & New Admission Details, 3. Documents, 4. Payment.

Personal Information fields:

- First Name: Ganesh
- Middle Name: Rajendra
- Last Name: Mali
- Mobile No: 9021817579
- Alternate Mobile No: Enter Alternate No.
- Date of Birth: 07-09-2003
- Date of Birth In Words: SEVENTH SEPTEMBER TWO THOUSAND THREE (highlighted with a green border and a 'Looks good!' message)
- Email Id: ganeshmali.fc@gmail.com
- Gender: Male
- Enter Cast: OBC
- Permanent Address: Yudhishtir society pandav nagari indira nagar Nashik

At the bottom right are 'Previous' and 'Next' buttons.

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

Profile

CERTIFICATE

My Certificate

Transference Certificate Application

1 Personal Information 2 Qualification & New Admission Details 3 Documents 4 Payment

Previous Qualification Details

Department	Course
Computer Science & Applications	M.Sc. Computer Science

Looks good!

Class M.Sc. II **Semester** SEM IV

Examination Details

Sr. No.	Examination Name	Examination Month	Examination Year	Examination Seat No.	Result (Passed/Fail)	CGPA	Grade	Reset
1	M.Sc. II	April	2024	246209	Passed	9.8	O	<button>Reset</button>

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

Profile

CERTIFICATE

My Certificate

New Admission Details

New Course Ph.D. Computer Science **New College Name** Symbiosis College Pune

Looks good!

Affiliated University Savitribai Phule Pune University **Admission Type** Maharashtra Student

Looks good!

Send for Departments Approval:

Account Department Library Department Scholarship Department

Next

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile >

CERTIFICATE

- My Certificate >

Transference Certificate Application

1 Personal Information 2 Qualification & New Admission Details 3 Documents 4 Payment

Latest Passing Marksheets

Choose File	WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	✓	✍	✖	🕒
-------------	--	---	---	---	---

Passing Certificate

Choose File	WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	✓	✍	✖	🕒
-------------	--	---	---	---	---

Proof of New Admission

Choose File	WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	✓	✍	✖	🕒
-------------	--	---	---	---	---

Birth Date Proof

Choose File	WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	✓	✍	✖	🕒
-------------	--	---	---	---	---

Identity Proof

Choose File	WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	✓	✍	✖	🕒
-------------	--	---	---	---	---

Previous Next

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile >

CERTIFICATE

- My Certificate >

Transference Certificate Application

1 Personal Information 2 Qualification & New Admission Details 3 Documents 4 Payment

Payment Summary

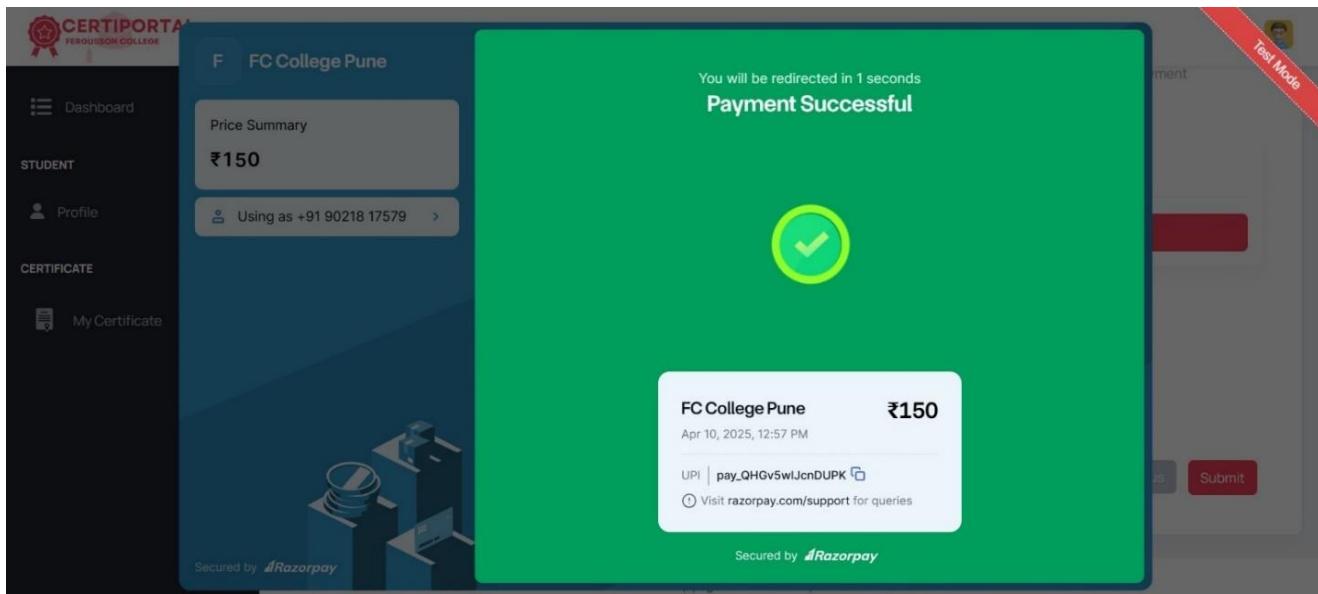
Student Name: Ganesh Mall
Roll Number: 20250001

Application Fee: ₹100.0
Processing Fee: ₹50.0
Total Payable: ₹150.0

Select Payment Method

Proceed To Payment

Previous Submit



2) Bonafide Certificate

The screenshot shows the "Bonafide Certificate Application" form on the Certiportal website. The sidebar on the left has "Dashboard", "STUDENT Profile", "CERTIFICATE My Certificate", "Request Certificate", and "Certificate Status". The main form is titled "Bonafide Certificate Application" and is divided into three steps: 1. Personal Information, 2. Documents, and 3. Payment. Step 1 is active and shows fields for Full Name (Mali Ganesh Rajendra), Gender (Male), Date of Birth (07-09-2003), Date of Birth in Words (SEVENTH SEPTEMBER TWO THOUSAND THREE), Roll Number (20250001), Division (A), Year (2024-2025), Department (Computer Science & Applications), Course (M.Sc. Computer Science), Purpose of Certificate (Scholarship), Local Address (Kohinoor estate near wakdewadi bus stand shivaji nagar pune), and Permanent Address (Yudhishtir society pandav nagari indira nagar nashik). At the bottom, there are "Previous" and "Next" buttons.

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile

CERTIFICATE

- My Certificate
- Request Certificate
- Certificate Status

Bonafide Certificate Application

1 Personal Information 2 Documents 3 Payment

Identity Proof
 Screenshot 2025-02-28 233901.jpg ✓ Edit Delete More

Birth Proof (Birth Certificate, Aadhar Card)
 Screenshot 2025-02-28 233901.jpg ✓ Edit Delete More

Fee Receipt
 Screenshot 2025-02-28 233901.jpg ✓ Edit Delete More

Previous Next

CERTIPORTAL
FERGUSON COLLEGE

Dashboard

STUDENT

- Profile

CERTIFICATE

- My Certificate
- Request Certificate
- Certificate Status

Bonafide Certificate Application

1 Personal Information 2 Documents 3 Payment

Payment Summary

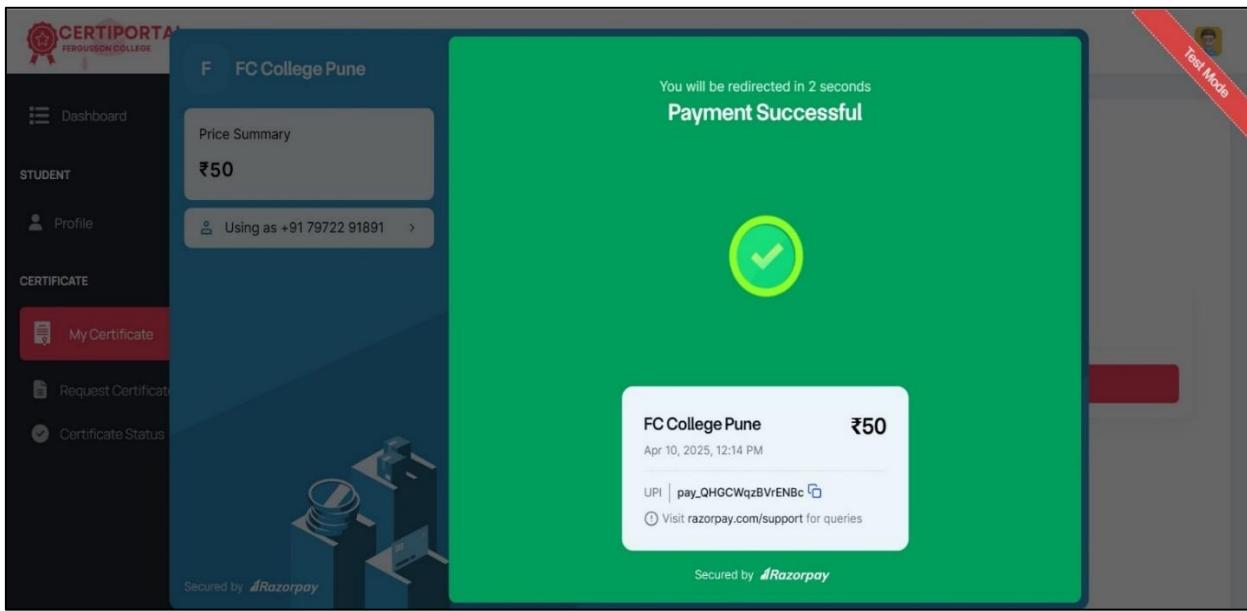
Student Name: Mali Ganesh Rajendra
 Roll Number: 20250001

Application Fee: ₹50.0
 Processing Fee: 0
 Total Payable: ₹50.0

Select Payment Method

Proceed To Payment

Previous Submit



3. Admin Module Screens

Student Admission

First Name: Vaibhavi (Looks good!) Middle Name: Sanjay (Looks good!) Last Name: Pasalkar (Looks good!)

Email: vaibhavipasalkar2004@gmail.com (Looks good!) Aadhar Number: 456123788945 (Looks good!)

Password: student

Submit Form

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CERTIPORTAL FERGUSON COLLEGE

Dashboard

STUDENT

Student Management

Admission

View Student

CERTIFICATE

Transference Certificate

Bonafide Certificate

Attendance Certificate



Dashboard

STUDENT

Student Management >

CERTIFICATE

Transference Certificate

Bonafide Certificate >

Attendance Certificate >

Transference Certificate Application

Student Id : 20250001

Application No: 20251

Personal Information

First Name

Ganesh

Middle Name

Rajendra

Last Name

Mali

Mobile No

9021817579

Alternate Mobile No

Date of Birth

2003-09-07

Date of Birth (In Words)

SEVENTH SEPTEMBER TWO THOUSAND THREE

Email Id

ganeshmali.fc@gmail.com

Gender

Male

Caste Category

OBC

Permanent Address

Yudhishtir society pandav nagari indira nagar nashik

Previous Qualification Details

Department

Computer Science & Applications

Course

M.Sc. Computer Science

Class

M.Sc. II

Semester

SEM IV

Examination Name	Examination Month	Examination Year	Seat No	Result	CGPA	Grade
M.Sc. II Computer	April	2024	246209	Passed	9.8	O

New Admission Details

New Course

Ph.D. Computer Science

New College Name

Symbiosis College Pune

Affiliated University

Savitribai Phule Pune University

Admission Type

Maharashtra Student

Uploaded Documents

Document Type	Document Name	Action
Latest Passing Marksheets	1744367010286WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	<button>View</button>
Passing Certificate	1744367010298WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	<button>View</button>
Proof of New Admission	1744367010304WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	<button>View</button>
Birth Date Proof	1744367010305WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	<button>View</button>
Identity Proof	1744367010307WhatsApp Image 2024-11-24 at 2.49.08 PM.jpeg	<button>View</button>

Department Approvals

Account Department

Approved

Library Department

Approved

Scholarship Department

Approved

Generate CertificateX Reject RequestBack


[Dashboard](#)
STUDENT
[Student Management >](#)
CERTIFICATE
[Transference Certificate>](#)
[Bonafide Certificate >](#)
[Attendance Certificate >](#)

Bonafide Certificate Application

Student Id : 20250001

Application No: 20251

Personal Information
Full Name

Mali Ganesh Rajendra

Gender

Male

Date of Birth

2003-09-07

Date of Birth (In Words)

SEVENTH SEPTEMBER TWO THOUSAND THREE

Student Local Address

Kohinoor estatenear wakdewadi bus stand shivaji nagar pune

Student Permanent Address

Yudhishtir society pandav nagari indira nagar nashik

Purpose of Certificate

Scholarship

Current Qualification Details
Department

Computer Science & Applications

Course

M.Sc. Computer Science

Year

2024-2025

Roll No

20250001

Division

A

Uploaded Documents

Document Type	Document Name	Action
Identity Proof	1744267626476_Screenshot 2025-02-28 233901.jpg	 View
Birth Date Proof	1744267626508_Screenshot 2025-02-28 233901.jpg	 View
Fee Receipt	1744267626512_Screenshot 2025-02-28 233901.jpg	 View

[Generate Certificate](#)
[Reject Request](#)
[Back](#)

4. Testing

4.1. Importance of Testing

Testing is essential for delivering high-quality software that meets user needs while minimizing risks. It acts as a quality gatekeeper throughout the development lifecycle, ensuring that every feature works as intended before reaching end-users. By systematically validating functionality, performance, and security, testing bridges the gap between developer expectations and real-world usage.

❖ **Early Bug Detection**

- Catches problems when they're easiest to fix.
- Prevents small issues from becoming big failures.

❖ **Improved Reliability**

- Works smoothly across different platforms.
- Minimizes crashes and unexpected behaviour.

❖ **Stronger Security**

- Finds vulnerabilities before they can be exploited.
- Protects sensitive user information.

❖ **Better Performance**

- Handles heavy usage without problems.
- Runs efficiently with quick response times.

❖ **Enhanced User Experience**

- Provides smooth, error-free operation.
- Keeps users satisfied and engaged.

❖ **Cost Efficiency**

- Reduces expensive fixes later in development.
- Saves money by preventing major issues.

❖ **Improved Documentation**

- Clearer code leads to better understanding.
- Helps new developers onboard faster.

❖ **Increases Code Reusability**

- Well-tested components can be reused across projects.
- Saves time in future development efforts.

4.2. Types of Testing

- 1. Functional Testing:** Ensures the system meets all functional requirements.
 - ❖ **Unit Testing:** Tests individual modules (e.g., login, certificate request).
 - ❖ **Integration Testing:** Checks interactions between different modules (e.g., student request & admin approval).
 - ❖ **System Testing:** Ensures the complete system works as expected.
 - ❖ **User Acceptance Testing (UAT):** Confirms the system meets user expectations before final deployment.
- 2. Non-Functional Testing:** Evaluates system performance, usability, and reliability.
 - ❖ **Performance Testing:** Tests system speed and efficiency.
 - ❖ **Load Testing:** Checks system behaviour under multiple user requests.
 - ❖ **Stress Testing:** Simulates high traffic to ensure stability.
 - ❖ **Usability Testing:** Ensures a user-friendly experience for students and administrators.
 - ❖ **Accessibility Testing:** Verifies the system is usable by individuals with disabilities.
- 3. Security Testing:** Ensures data privacy and protection against cyber threats.
 - ❖ **Authentication Testing:** Ensures only authorized users can log in.
 - ❖ **Authorization Testing:** Confirms role-based access (Student, Admin, Department).
 - ❖ **Data Encryption Testing:** Protects sensitive certificate data.
 - ❖ **Penetration Testing:** Simulates cyberattacks to identify vulnerabilities.
- 4. Database Testing:** Ensures accurate and efficient data storage.
 - ❖ **Data Integrity Testing:** Verifies data consistency in the database.
 - ❖ **CRUD Testing:** Tests Create, Read, Update, and Delete operations.
 - ❖ **Indexing & Query Performance Testing:** Ensures faster database responses.
- 5. Compatibility Testing:** Ensures the system works across different platforms.
 - ❖ **Cross-Browser Testing:** Verifies functionality on Chrome, Firefox, Edge, etc.
 - ❖ **Cross-Platform Testing:** Ensures the system runs on Windows, macOS, and mobile devices.

4.3. Test Cases

➤ Student Module

❖ Student Login with Valid Credentials

- Steps: Enter correct User ID & Password, Click "Login"
- Expected Result: Student successfully logs in and is redirected to the dashboard
- Status: Pass

❖ Student Login with Invalid Credentials

- Steps: Enter incorrect User ID or Password, Click "Login"
- Expected Result: Error message is displayed
- Status: Pass

❖ Logout Functionality

- Steps: Click "Logout"
- Expected Result: Student is logged out and redirected to the login page
- Status: Pass
-

❖ Forgot Password - Request OTP for Password Reset

- Steps: Click "Forgot Password", Enter registered email, Click "Send OTP"
- Expected Result: OTP is sent to the registered email
- Status: Pass

❖ Forgot Password - Verify OTP and Reset Password

- Steps: Enter received OTP, Enter new password, Confirm new password, Click "Submit"
- Expected Result: Password is successfully updated
- Status: Pass

❖ Mandatory Profile Completion

- Steps: Login with default credentials, System redirects to profile page, Fill required details, Click "Save"
- Expected Result: Profile updated; student dashboard accessible
- Status: Pass

❖ Profile Update

- Login as student, Navigate to "Profile", Edit information, Click "Save"
- Expected Result: Profile updated successfully
- Status: Pass

❖ Submit Certificate Request

- Steps: Login as student, Click "Request Certificate", Select certificate type, Upload required documents, Click "Submit"
- Expected Result: Request submitted successfully and visible in student dashboard
- Status: Pass

- ❖ **Attempt Request Without Completing Profile**
 - Steps: Login as student, Click "Request Certificate" without updating profile
 - Expected Result: System prevents request submission and prompts to complete the profile first
 - Status: Pass

- ❖ **View Request Status**
 - Steps: Login as student, Navigate to "My Requests", Check status of submitted requests
 - Expected Result: Status updates are visible (Pending, Approved, Disapproved)
 - Status: Pass

- ❖ **Upload Supporting Documents**
 - Steps: Login as student, Navigate to "Upload Documents", Select a valid file (JPG, PNG), Click "Submit"
 - Expected Result: Document uploaded successfully
 - Status: Pass

- ❖ **Upload Invalid File Format**
 - Steps: Login as student, Upload a file with an unsupported format, Click "Submit"
 - Expected Result: System shows error message
 - Status: Pass

- ❖ **Receive Notification for Certificate Approval**
 - Steps: Admin approves request, Student logs in and checks status and received confirmation email.
 - Expected Result: Notification for approval is displayed
 - Status: Pass

- ❖ **Failed Payment Handling**
 - Steps: Simulate a failed payment attempt, Check if the system handles it correctly
 - Expected Result: User is notified of failed payment, and retry option is available
 - Status: Pass

➤ **Admin Module**

- ❖ **Admin Login with Valid Credentials**
 - Steps: Enter correct User ID & Password, Click "Login"
 - Expected Result: Admin successfully logs in and is redirected to the dashboard
 - Status: Pass

- ❖ **Admin Login with Invalid Credentials**
 - Steps: Enter incorrect User ID or Password, Click "Login"
 - Expected Result: Error message is displayed.
 - Status: Pass

- ❖ **Logout Functionality**
 - Steps: Click "Logout"
 - Expected Result: Admin is logged out and redirected to the login page
 - Status: Pass

- ❖ **Dashboard Displays Real-Time Statistics with Pie Chart**
 - Steps: Login as admin. Navigate to the admin dashboard. Check if the dashboard displays real-time counts of total students, pending requests, approved certificates, and rejected requests. Verify if the pie chart updates dynamically based on new requests and approvals.
 - Expected Result: Dashboard accurately displays total counts of students, pending requests, approved certificates, and rejected requests. The pie chart updates in real time when new requests are submitted, approved, or rejected.
 - Status: Pass

- ❖ **View Pending Certificate Requests**
 - Steps: Login as admin, Navigate to "Pending Requests"
 - Expected Result: List of pending certificate requests is displayed
 - Status: Pass

- ❖ **Verify Certificate Request**
 - Steps: Login as admin, open a pending request, Cross-check details with records, Verify supporting documents
 - Expected Result: Admin successfully verifies the request
 - Status: Pass

- ❖ **Approve Certificate Request**
 - Steps: Login as admin, navigate to "Pending Requests", Click "Approve" for a verified request
 - Expected Result: Request status changes to "Approved", student is notified
 - Status: Pass

- ❖ **Reject Certificate Request**
 - Steps: Login as admin, navigate to "Pending Requests", Click "Reject", Provide reason for rejection
 - Expected Result: Request status changes to "Disapproved", student receives a rejection notification via email.
 - Status: Pass

- ❖ **Certificate Generation After Approval**
 - Steps: Login as admin, open an approved request, click "Generate Certificate"
 - Expected Result: System generates the certificate, making it available for student download
 - Status: Pass

- ❖ **View Approved Certificates**
 - Steps: Login as admin, Navigate to "Approved Requests"
 - Expected Result: List of approved certificate requests is displayed
 - Status: Pass

❖ View Rejected Certificates

- Steps: Login as admin, Navigate to "Disapproved Requests"
- Expected Result: List of rejected requests with sends notification to student via email.
- Status: Pass

❖ Notification to Students on Request Approval

- Steps: Approve a certificate request, check if a notification is sent to the student via email.
- Expected Result: Student receives a notification about approval via email.
- Status: Pass

❖ Access to Admin Panel

- Steps: Try accessing admin panel without admin credentials
- Expected Result: Access is denied with an error message
- Status: Pass

❖ Search and Filter Certificate Requests

- Steps: Allow search/filter options to find specific certificate requests or any particular record.
- Expected Result: Requests are filtered correctly as per the given criteria
- Status: Pass

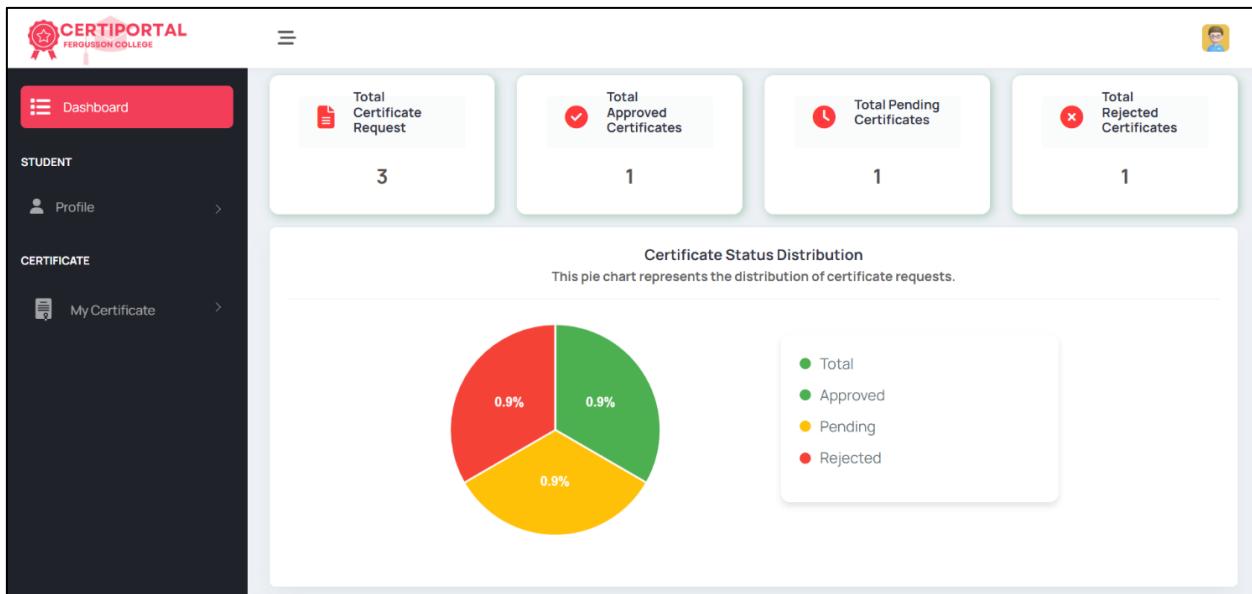
❖ Generate Reports on Certificate Requests

- Steps: Login as admin,", Select time range and filters, click "Generate Report"
- Expected Result: Detailed report on certificate requests is generated and downloadable.
- Status: Pass

5. Reports

1. Student Module

Dashboard:



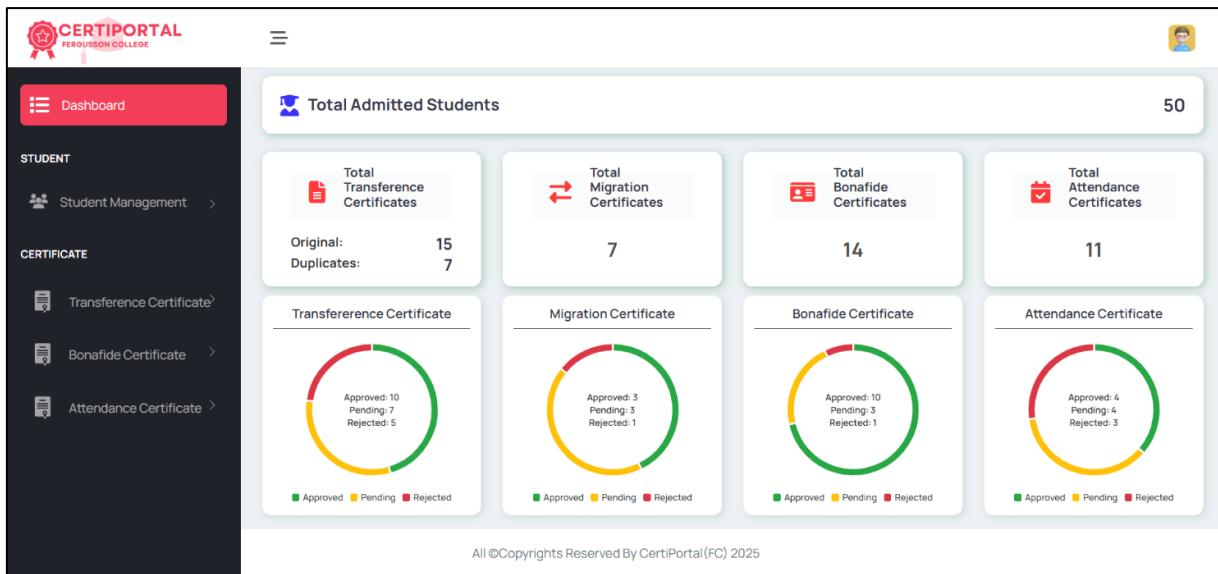
Student Certificate Status:

The student module displays three certificate lists:

- Transference Certificate List:** Shows one entry (TC20251) for a Transference Certificate.
- Bonafide Certificate List:** Shows one entry (BON20251) for a Bonafide Certificate.
- Attendance Certificate List:** Shows one entry (AC20251) for an Attendance Certificate.

2. Admin Module

Dashboard:



The Student List page shows the following table:

ID	First Name	Middle Name	Last Name	Aadhar No	Email	Start Date
20250001	Ganesh	Rajendra	Mali	789478941236	ganeshmai.fc@gmail.com	02-04-2025
20250002	Vaibhavi	Sanjay	Pasalkar	456123788945	vaibhavipasalkar2004@gmail.com	02-04-2025
20250003	Ajinkya	Balasaheb	Dhavale	123412341234	ajinkyadhadav@gmail.com	02-04-2025
20250004	Aman	Sachin	JadHAV	145263546557	aman@gmail.com	11-04-2025
20250005	Komal	Deepak	Joshi	766464354655	komal123@gmail.com	11-04-2025
20250006	Sanjay	Narayan	Pasalkar	459478941236	sanjaypasalkar2004@gmail.com	11-04-2025
20250007	Isha	Ram	Deshmukh	766464354656	isha123@gmail.com	11-04-2025
20250008	Neha	Vikas	More	145263546545	neha23@gmail.com	11-04-2025

Showing 1 to 8 of 8 entries

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Certificate Status Report

Pending Bonafide Certificates

Application No	Student Id	Application Date	Certificate Name	Payment Id	Payment Status	Status	Action
BC20253	20250002	2025-04-11 18:00:48.0	Bonafide Certificate	pay_QHkclUgZbvQYvp	Paid	X	View

Showing 1 to 1 of 1 entries

Bonafide Certificates

Application No	Student Id	Application Date	Certificate Name	Payment Status	Issue Date	Status	Action
BC20251	20250001	2025-04-10 12:17:06.0	Bonafide Certificate	Paid		✓	View Issued
BC20252	20250003	2025-04-11 16:58:17.0	Bonafide Certificate	Paid	2025-04-11 18:03:08.0	✓	View Issued

Showing 1 to 2 of 2 entries

Rejected Bonafide Certificates

Application No	Student Id	Application Date	Certificate Name	Payment Id	Payment Status	Status	Action
BC20253	20250002	2025-04-11 18:00:48.0	Bonafide Certificate	pay_QHkclUgZbvQYvp	Paid	X	Delete

Showing 1 to 1 of 1 entries

Generated Certificates

1) Transference Certificate



Dashboard

STUDENT

Student Management >

CERTIFICATE

Transference Certificate >

Bonafide Certificate >

Attendance Certificate >



Deccan Education Society's
FERGUSSON COLLEGE
(AUTONOMOUS)
PUNE - 411 004, MAHARASHTRA, INDIA.
Empowered Autonomous College (Under Savitribai Phule Pune University)
(ID No. PU/PN/AS/002/1885) Reaccredited with "A+" Grade by NAAC (4th Cycle) | AISHE Code: C-41431
UGC Special Heritage Status | UGC - College of Excellence (CE) | DBT - STAR Status

Certificate No:20251

TRANSFERENCE CERTIFICATE
(Under Ordinance Order 73 of the Savitribai Phule Pune University)
Original

Certified that **MR. MALI RAJENDRA GANESH**
has been a student of the **FERGUSSON COLLEGE(AUTONOMOUS), PUNE 411004**.

(A) He appeared for the following examination in this College since him last University Examination, with the result shown against them:

Last Examination	Result - Passed/Fail	Class	CGPA	Grade
April 2024	Passed	M.Sc. Computer Science SEM IV	9.8	O

(B) He would have been in ___ class if he had continued in this College.
(C) has no books in his possession belonging to this College.
(D) Nothing is owing by him for College dues.
(E) his birth date as entered in the college Register is
In Figures: 07-09-2003
In Words: **SEVENTH SEPTEMBER TWO THOUSAND THREE**
(F) He bears a good moral character.
(G) His voluntary subject or group of subjects in which she attended the course of instruction in this college was **M.Sc. Computer Science**
(H) He has satisfactorily kept laboratory journal of practical work in Science done by him.
(I) He has satisfactorily gone through the course of physical training prescribed by the university. He was exempted from P.T. on medical ground / on the ground of her being a member of N.C.C. / on the ground of his active membership of a recognized major games of the college team.

Fergusson College (Autonomous), Pune 411004.
Date: **12/04/2025**
Forwarded with compliments to:
The Registrar,
Savitribai Phule Pune University - 411007

To,
The Principal
College **Symbiosis College Pune**

PRINCIPAL/REGISTRAR

Print Certificate **Back**

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2) Bonafide Certificate

The screenshot shows a Bonafide Certificate for MR. DHAVALE AJINKYA BALASAHEB from FERGUSON COLLEGE, PUNE, MAHARASHTRA, INDIA. The certificate is dated 12/04/2025. It includes the student's photo, permanent and local addresses, and the date of birth (22-04-2003). The document is issued on the request of the student. The print settings are set to 1 page, save as PDF, all pages, 1 per sheet, default margins, and no headers or footers or background graphics. There are 'Save' and 'Cancel' buttons at the bottom.

3. Sub Module

The screenshot shows the 'Total Admitted Students' dashboard. It displays four cards: 'Total Transference Certificate Request' (15), 'Total Approved Transference Certificates' (8), 'Total Pending Transference Certificates' (5), and 'Total Rejected Transference Certificates' (2). To the right, a pie chart titled 'Certificate Status Distribution' shows the distribution of certificate requests: Approved (0.9%), Pending (0.6%), and Rejected (0.2%). The legend indicates green for Approved, yellow for Pending, and red for Rejected. The total number of admitted students is 50. The sidebar on the left shows library sections for Transference Certificate, New Request Certificate, Approved Certificate, and Rejected Certificate.

 CERTIPORTAL
FERGUSON COLLEGE

Dashboard

LIBRARY SECTION

 Transference Certificate

New Request Certificate

 Approved Certificate

 Rejected Certificate

Approved Transference Certificate List

Copy CSV Excel PDF Print Search:

Application No	Student Id	Application Date	Certificate Name	TC Type	Payment Status	Status
TC20251	20250001	2025-04-11 15:53:30.0	Transference Certificate	Original	Paid	
TC20252	20250003	2025-04-11 17:02:47.0	Migration Certificate	Original	Paid	

Showing 1 to 2 of 2 entries

Previous  Next 

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6. Drawbacks and Limitations

6.1. Drawbacks

- ❖ **Internet Dependency:** The system requires a stable internet connection; any network failure can hinder accessibility.
- ❖ **Potential System Downtime:** Maintenance or technical issues may temporarily disrupt access to the platform.
- ❖ **Limited Offline Functionality:** The system does not support offline access for certificate requests and approvals.
- ❖ **Data Entry Errors:** Incorrect student details entered into the system can lead to certificate generation errors.
- ❖ **Maintenance Required:** Regular updates and security checks are needed to keep the system running smoothly.
- ❖ **Single Point of Failure:** If the central database crashes, the entire system may stop working until it is fixed.
- ❖ **Dependence on Admins:** If the admin does not verify requests on time, certificate processing may get delayed.

6.2. Limitations

- ❖ **Fixed Certificate Formats:** Certificate designs have fixed formats that might not suit all institutions.
- ❖ **Storage Limitations:** Large volumes of certificates and documents may require additional server resources over time.
- ❖ **Security Risks:** If not properly maintained, there is a chance of cyberattacks or data leaks.
- ❖ **May Slow Down with More Users:** If too many people use the system at the same time, it may become slow.
- ❖ **No Multi-Language Support:** The system may not support different languages, limiting accessibility for some users.

7. Future Enhancement and Conclusion

7.1. Future Enhancement

❖ Digital Signature and Blockchain Verification

Implement digital signature technology and blockchain for tamper-proof certificate verification and enhanced security.

❖ Multi-Language and Accessibility Support

Offer support for multiple languages and accessibility features to cater to a diverse user base, including those with disabilities.

❖ Advanced Analytics and Reporting

Introduce robust analytics dashboards that provide insights into trends, request processing times, and system performance for continuous improvement.

❖ Mobile Application Integration

Develop native mobile apps for students and administrators to enable certificate management on-the-go.

❖ Enhanced Notification System

Integrate SMS alerts to provide instant updates on request statuses, approvals, or required actions.

❖ Integration with University Management Systems

Seamlessly connect with ERP, LMS, or other institutional systems to automatically update student records and synchronize data.

❖ Enhanced Security Measures

Introduce multi-factor authentication, biometric verification, and end-to-end encryption to safeguard sensitive data.

❖ Customizable Certificate Templates

Allow administrators to design and customize certificate templates to meet changing institutional branding and regulatory requirements.

❖ Automated Document Verification

Incorporate OCR (Optical Character Recognition) and AI-based verification to automatically validate uploaded documents and reduce manual review time.

❖ Chatbot and Virtual Assistant Integration

Add a chatbot or virtual assistant for real-time support, guiding students through the certificate request process and answering FAQs.

7.2. Conclusion

The CertiPortal - Academic Certificate Generator effectively replaces the traditional, manual certificate issuance process with an automated and efficient system. By enabling students to request certificates online, track their status in real-time, the platform enhances accessibility and convenience.

For administrators, the system simplifies request verification, approval workflows, and certificate generation, reducing paperwork and processing delays. With role-based access control, seamless departmental collaboration, and a centralized database, it ensures accuracy, security, and transparency.

This project not only improves administrative efficiency but also enhances the overall student experience by minimizing delays and reducing the need for physical visits. Future enhancements like digital signatures, mobile integration, and advanced reporting can further expand its functionality, making it a scalable solution for educational institutions.

8. Bibliography

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