

# **Software Requirements Specification (SRS)**

**For:** College Admission Management Portal

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# 1. Introduction

## 1.1 Purpose

The purpose of this Software Requirements Specification (SRS) document is to define the functionalities, constraints, and design considerations for the **College Admission Management Portal (CAP)**.

The CAP is intended to simplify and digitise the **end-to-end college admission process**, from applicant registration and application submission to verification, merit list generation, and admission finalisation.

This SRS aims to:

- Provide a **clear definition** of system behaviour for developers.
- Establish a **common understanding** between stakeholders, including students, faculty, administrators, and technical teams.
- Serve as a **foundation for system design, development, and testing**.
- Act as a **contract** that ensures the final implementation aligns with the stated requirements.

By documenting both **functional requirements (FRs)** and **non-functional requirements (NFRs)**, as well as use cases and data flow diagrams (DFDs), this SRS ensures that CAP is developed to be **user-friendly, scalable, secure, and reliable**.

## 1.2 Scope

The **College Admission Management Portal (CAP)** is a **web-based application** that integrates all activities related to student admissions into a **single, centralized system**.

### Key Features & Functionalities:

#### 1. Applicant Services:

- Online registration and login.
- Filling and editing of admission forms.
- Uploading required documents (mark sheets, ID proofs, certificates).
- Selecting desired courses/programs.
- Payment of admission and application fees via payment gateway.
- Receiving real-time notifications and updates.
- Downloading merit lists, admission results, and admission letters.

#### 2. Admission Officer Services:

- Verification of applicant details and documents.
- Requesting additional or corrected documents.
- Scheduling interviews or entrance exams.
- Updating application status (accepted, rejected, under review).

### **3. Faculty Reviewer Services:**

- Reviewing academic profiles and documents.
- Conducting interviews or reviewing entrance exam performance.
- Providing feedback for inclusion in merit list generation.

### **4. Administrator Services:**

- Monitoring system operations.
- Approving and publishing merit lists and final results.
- Configuring admission policies, eligibility criteria, and quotas.
- Generating analytical reports for management decisions.

### **5. External Systems Integration:**

- **Payment Gateway:** To handle fee transactions securely.
- **Email/SMS Service:** To notify applicants regarding confirmation, schedule, and results.

#### **Benefits of the System:**

- **Efficiency:** Reduces manual work and eliminates paperwork.
- **Transparency:** Provides applicants real-time visibility into their application status.
- **Scalability:** Supports thousands of applicants simultaneously.
- **Accessibility:** Enables remote access through web browsers and mobile devices.
- **Accuracy:** Automates sorting, merit generation, and reduces errors.

#### **1.3 Definitions, Acronyms, and Abbreviations**

- **CAP:** College Admission Management Portal.
- **SRS:** Software Requirements Specification.
- **DFD:** Data Flow Diagram.
- **FR:** Functional Requirement.
- **NFR:** Non-Functional Requirement.
- **Use Case:** Interaction between an actor and the system to achieve a goal.
- **Applicant:** Student applying for admission.
- **Admission Officer:** College staff verifying and processing applications.
- **Faculty Reviewer:** Academic staff reviewing applicants' academic and interview performance.
- **Administrator:** Senior authority managing system settings and approvals.
- **Payment Gateway:** External system handling monetary transactions.
- **Email/SMS Service:** External service provider for communication with applicants.

- **Merit List:** List of shortlisted applicants generated based on academic and institutional criteria.

## 1.4 References

1. IEEE Std 830-1998 – IEEE Recommended Practice for Software Requirements Specifications.
2. Unified Modeling Language (UML) Specification, Version 2.5.
3. Pressman, R. S. *Software Engineering: A Practitioner's Approach*.
4. Sommerville, I. *Software Engineering* (10th Edition).
5. UGC and AICTE guidelines for admission processes in India.
6. Case studies from existing portals like DU Admissions, JEE Main, and NEET Counseling systems.

## 1.5 Overview

This document is structured to provide both a **high-level overview** and **detailed technical specifications** of CAP.

- **Section 2: General Description** – Outlines the overall product perspective, major functions, user types, and constraints.
- **Section 3: Specific Requirements** – Presents detailed descriptions of functional and non-functional requirements.
- **Section 4: Use Cases** – Models user interactions with CAP, highlighting <<include>> and <<extend>> relationships.
- **Section 5: Appendices** – Contains supporting diagrams (DFD Level 0, 1, and 2), glossary, and references.

The purpose is to ensure the system is described in a manner that is **clear, consistent, and comprehensive**, so that **stakeholders and developers** can collaborate effectively and align their expectations with system capabilities.

## 2. General Description

### 2.1 Product Perspective

The **College Admission Management Portal (CAP)** is designed as a **web-based multi-user system** that integrates seamlessly with existing college IT infrastructure.

- **System Type:** Centralized admission management system.
- **Architecture:** Follows a **3-tier architecture**:
  1. **Presentation Layer (Front-End)** – Web interface for applicants, faculty, admission officers, and administrators.
  2. **Application Layer (Back-End Services)** – Handles admission workflows, verification, merit generation, notifications, and reporting.
  3. **Database Layer** – Stores applicant details, documents, merit lists, results, and system logs.
- **External Interfaces:**
  - **Payment Gateway Integration** for secure fee transactions.
  - **Email/SMS Gateway** for sending admission notifications.
  - **Identity Verification (optional future scope)** via Aadhaar/UID system.
- **Relationship with Other Systems:**
  - If the college already uses **ERP** for student management, CAP can integrate for smooth data transfer.
  - Can provide APIs to share admission data with **Government/University central systems**.

## **2.2 Product Functions**

At a high level, CAP provides the following **functional modules**:

### **1. Applicant Module**

- Register and create login credentials.
- Fill admission form and select desired course(s).
- Upload necessary documents.
- Pay admission/application fee.
- Track status of application.
- Download admit card, merit list, and admission letter.

### **2. Admission Officer Module**

- Verify applicant information and uploaded documents.
- Request re-submission of documents (if invalid).
- Schedule and manage interviews/entrance tests.
- Update admission status.

### **3. Faculty Reviewer Module**

- Review academic background and scores.
- Conduct online/offline interviews.
- Provide feedback and grading for selection.

### **4. Administrator Module**

- Manage admission policies, eligibility criteria, and quotas.
- Generate and publish merit lists.
- Approve/reject applications flagged by officers.
- Monitor system usage and performance.
- Generate analytical and statistical reports.

### **5. External Services**

- Securely process payments.
- Send updates and reminders via SMS/email.

## 2.3 User Characteristics

Different categories of users will interact with CAP:

### 1. Applicants (Students):

- Age: 17–30 years (primarily school graduates and postgraduates).
- Technical skills: Basic internet and smartphone/laptop usage.
- Needs: Simple interface, step-by-step guidance, multi-language support.

### 2. Admission Officers (Clerical Staff):

- College employees trained in student admissions.
- Moderate technical knowledge.
- Needs: Tools for verification, document review, and communication with applicants.

### 3. Faculty Reviewers (Professors):

- Subject matter experts evaluating candidates.
- Limited time availability, so need efficient dashboards.
- Needs: Quick access to applicant profiles, marks, and interview tools.

### 4. Administrators (Management Staff):

- Senior officials in charge of admissions.
- Strong decision-making authority.
- Needs: System-wide visibility, report generation, and configuration access.

## 2.4 Constraints

### 1. Technical Constraints

- Web application must be **cross-platform** (desktop, tablet, mobile).
- Database should support **high concurrency** (thousands of applicants).
- Must comply with **data privacy regulations** (e.g., GDPR, Indian IT Act).
- Limited internet bandwidth in rural areas → portal should be **lightweight** and optimized.

### 2. Business Constraints

- Admission policies governed by **university/AICTE/UGC regulations**.
- Fixed admission deadlines.
- Limited IT staff for maintenance.

### 3. Operational Constraints

- Payment gateway failures → must provide retry and offline options.
- System must support **24/7 availability** during admission season.
- Backups and disaster recovery must be in place.

## **2.5 Assumptions and Dependencies**

- Applicants will have access to **internet-enabled devices**.
- Payment gateway services (e.g., Razorpay, Paytm, PayPal) are **available and reliable**.
- Email/SMS delivery services (e.g., Twilio, AWS SES) function without downtime.
- College has necessary **IT infrastructure** (server hosting, storage, network bandwidth).
- Admission rules and eligibility criteria are provided by the **college administration** in advance.
- External government systems (if integration required) expose APIs for data sharing.

## **2.6 Apportioning of Requirements**

Some requirements may be postponed for **future releases**:

- Mobile app version (Android/iOS).
- AI-based document verification (OCR + fraud detection).
- Biometric/Aadhaar verification.
- Chatbot for applicant queries.
- Multilingual voice assistance.

### **3. Specific Requirements**

#### **3.1 Functional Requirements (FRs)**

The **functional requirements** define the services and behaviors that the College Admission Portal (CAP) must provide.

We will group these by **major system modules**.

##### **3.1.1 Applicant Module**

- **FR1 – Applicant Registration and Login**
  - The system shall allow applicants to register using name, email, phone number, and password.
  - The system shall validate uniqueness of email/phone.
  - The system shall allow login using registered credentials.
  - The system shall provide password reset via OTP/email verification.
- **FR2 – Profile Management**
  - Applicants shall update personal information (address, DOB, nationality, category).
  - Applicants shall upload photo and signature.
  - The system shall allow applicants to edit information before final submission.
- **FR3 – Course Selection**
  - The system shall display available courses with eligibility criteria.
  - Applicants shall select one or more courses (as per rules).
  - System shall validate eligibility before submission.
- **FR4 – Document Upload**
  - The system shall allow upload of academic records (10th/12th certificates, ID proof, caste certificate, income certificate, etc.).
  - The system shall accept PDF/JPEG/PNG formats within size limits.
  - Applicants shall preview uploaded documents.
- **FR5 – Fee Payment**
  - The system shall allow applicants to pay application/admission fees via payment gateway.
  - The system shall generate a receipt upon successful payment.
  - The system shall allow retry if payment fails.
- **FR6 – Application Tracking**
  - Applicants shall check real-time status: *submitted, under review, verified, shortlisted, admitted, rejected*.
  - Applicants shall receive SMS/email updates at each stage.
- **FR7 – Download & Print Facilities**

- Applicants shall download admit card for interviews/exams.
- Applicants shall download merit list and admission letter.

### **3.1.2 Admission Officer Module**

- **FR8 – Application Verification**
  - Officers shall view submitted applications.
  - Officers shall verify applicant documents.
  - Officers shall mark status as *verified, pending, or rejected*.
- **FR9 – Communication with Applicants**
  - Officers shall send re-upload requests for invalid documents.
  - Officers shall send interview/exam schedules.
- **FR10 – Interview/Exam Management**
  - Officers shall create interview/exam slots.
  - The system shall auto-assign applicants to available slots.
  - The system shall notify applicants of their schedule.

### **3.1.3 Faculty Reviewer Module**

- **FR11 – Applicant Review**
  - Faculty reviewers shall view applicant academic background.
  - Faculty reviewers shall mark evaluation scores/grades.
  - Faculty reviewers shall provide interview feedback.

### **3.1.4 Administrator Module**

- **FR12 – Admission Policy Management**
  - Administrators shall configure eligibility criteria.
  - Administrators shall set seat quotas (e.g., category-wise, course-wise).
- **FR13 – Merit List Generation**
  - The system shall generate provisional merit lists based on academic weightage, test scores, and interview performance.
  - Administrators shall approve or reject generated lists before publication.
- **FR14 – Admission Confirmation**
  - Administrators shall confirm final admission for shortlisted applicants.
  - The system shall auto-generate admission letters.
- **FR15 – Reports and Analytics**

- Administrators shall generate reports on number of applicants, selected students, fees collected, category-wise admissions, etc.

### **3.1.5 External Service Integrations**

- **FR16 – Payment Gateway Integration**
  - CAP shall integrate with third-party payment gateways.
  - System shall securely store payment transaction IDs.
- **FR17 – SMS/Email Notifications**
  - CAP shall integrate with SMS/email service providers.
  - System shall send notifications for registration, status updates, interview calls, merit list publication, and admission confirmation.

## **3.2 Non-Functional Requirements (NFRs)**

Each **NFR** is linked to one or more functional requirements.

### **3.2.1 Performance**

- NFR-1 (*FR1–FR7*): The system shall support **10,000+ concurrent users** during peak admission season.
- NFR-2 (*FR3, FR4, FR5*) : The system shall process application form submissions within **3 seconds**.

### **3.2.2 Reliability**

- NFR-3 (*All FRs*) : The system shall provide **99.5% uptime** during admission period.
- NFR-4 (*FR12–FR15*): Data backups shall be taken **daily** and stored in secure servers.

### **3.2.3 Security**

- NFR-5 (*FR1–FR17*) : All user data shall be **encrypted** at rest and in transit.
- NFR-6: The system shall comply with **Indian IT Act and GDPR** for data privacy.
- NFR-7 (Applicant, Officer, Faculty, Admin): Access control shall ensure role-based permissions .

### **3.2.4 Usability**

- NFR-8 (*FR1–FR7*) : The system shall provide **multi-language support** (English, Hindi, regional languages).
- NFR-9 (*FR1–FR7*) : The user interface shall be **mobile-friendly**.
- NFR-10 (*FR6, FR9*) : The system shall include **helpdesk/chatbot** support for applicants.

### **3.2.5 Maintainability**

- NFR-11: The system shall be designed using **modular architecture**.
- NFR-12 : Updates shall not affect running admissions.
- NFR-13 : Logs and error reports shall be automatically generated.

### **3.2.6 Scalability**

- NFR-14 (*All FRs*) : The system shall allow scaling of servers to handle increased load.
- NFR-15 (*FR3–FR15*) : The database shall be optimized for millions of records.

### **3.2.7 Interoperability**

- NFR-16 (*FR12–FR15*) : CAP shall integrate with existing **College ERP**.
- NFR-17 (*FR12–FR15*) : CAP shall provide **APIs for government education boards/universities**.

## **3.3 Interface Requirements**

### **3.3.1 User Interface Requirements (UI)**

The user interface (UI) defines how **applicants, admission officers, faculty reviewers, and administrators** interact with the system. CAP will have a **web-based responsive interface**.

#### **3.3.1.1 General UI Guidelines**

- **Consistency:** All pages shall follow a consistent design with the college logo, color scheme, and navigation.
- **Accessibility:** The portal shall support screen readers and comply with **WCAG 2.1 guidelines**.
- **Responsive Design:** Interface shall work on **desktop, tablet, and mobile browsers**.
- **Navigation:** Easy-to-understand menus with clear labels for **Applicant, Officer, Faculty, Admin**.
- **Feedback:** Forms and actions shall display success/error messages immediately.
- **Multilingual Support:** English, Hindi, and optionally regional language toggle.

#### **3.3.1.2 Module-Specific UI Requirements**

##### **1. Applicant Module**

- **Registration/Login Page:** Form fields for email, phone, password; captcha for security.
- **Dashboard:** Overview of application status, notifications, upcoming interview/exam.
- **Application Form Page:** Stepwise wizard (personal info → academic info → document upload → course selection).
- **Payment Page:** Integration with payment gateway; show payment amount, instructions, and receipt.
- **Notification Panel:** Alerts for document verification, interview schedule, merit list, admission status.
- **Download Section:** Merit list, admit card, admission letter in PDF format.

##### **2. Admission Officer Module**

- **Officer Dashboard:** List of pending/verifying applications, search and filter options.

- **Application Review Page:** View applicant info, uploaded documents, and mark verification status.
- **Communication Page:** Option to send messages or document re-upload requests to applicants.
- **Interview Scheduler:** Drag-and-drop calendar to schedule interviews/exams.

### **3. Faculty Reviewer Module**

- **Reviewer Dashboard:** List of assigned applicants with filter by course/program.
- **Evaluation Page:** View academic records and documents; add interview feedback and grades.

### **4. Administrator Module**

- **Admin Dashboard:** System overview with applicant statistics, seat allotment, merit list status.
- **Merit List Generation Page:** Upload weightage criteria, generate provisional lists, approve for publishing.
- **Reports Page:** Export reports in CSV/PDF format for analytics.

#### **3.3.2 Hardware Interface Requirements**

- **Server:** CAP shall run on a **cloud server** or college-hosted server supporting **Linux/Windows OS**.
- **Database Server:** Must support **MySQL/PostgreSQL/Oracle**.
- **Client Devices:** Users may access via **PCs, laptops, tablets, or smartphones** with modern browsers.
- **Network:** 10 Mbps minimum for normal operations; scalable bandwidth for peak admission periods.

#### **3.3.3 Software Interface Requirements**

- **Operating System:**
  - Server: Linux (Ubuntu 20.04 or higher) or Windows Server 2019+.
  - Client: Any OS supporting modern web browsers (Windows, macOS, Android, iOS).
- **Web Server:** Apache/Nginx/IIS.
- **Database:** MySQL/PostgreSQL/Oracle.
- **Frameworks:** React.js/Angular/Vue.js for frontend, Node.js/Django/Java Spring Boot for backend.
- **Payment Gateway SDKs:** Razorpay/Paytm/Stripe.
- **Email/SMS APIs:** Twilio, SendGrid, or AWS SES.
- **Security:** SSL/TLS 1.3, OAuth2.0 for authentication, AES-256 for sensitive data encryption.

#### **3.3.4 Communication Interface Requirements**

- **Internet Access:** Required for applicants, officers, faculty, and admins to access portal.
- **Data Exchange:** JSON/REST APIs for internal modules and external systems (payment, email/SMS).

- **Notification Protocols:** SMTP for email, HTTP API for SMS.
- **Error Handling:** System shall provide clear error messages for failed communication (payment failure, email not sent, network downtime).
- **Session Management:** Secure session cookies and automatic logout after inactivity (15–30 minutes).

### **3.3.5 Accessibility & Compatibility**

- Portal shall comply with **WCAG 2.1 standards** for visually impaired users.
- Portal shall support **latest versions of Chrome, Firefox, Edge, and Safari**.
- PDF documents generated (merit list, admission letter) must be **printable and readable offline**.

## 4. Appendices

### 4.1 Glossary

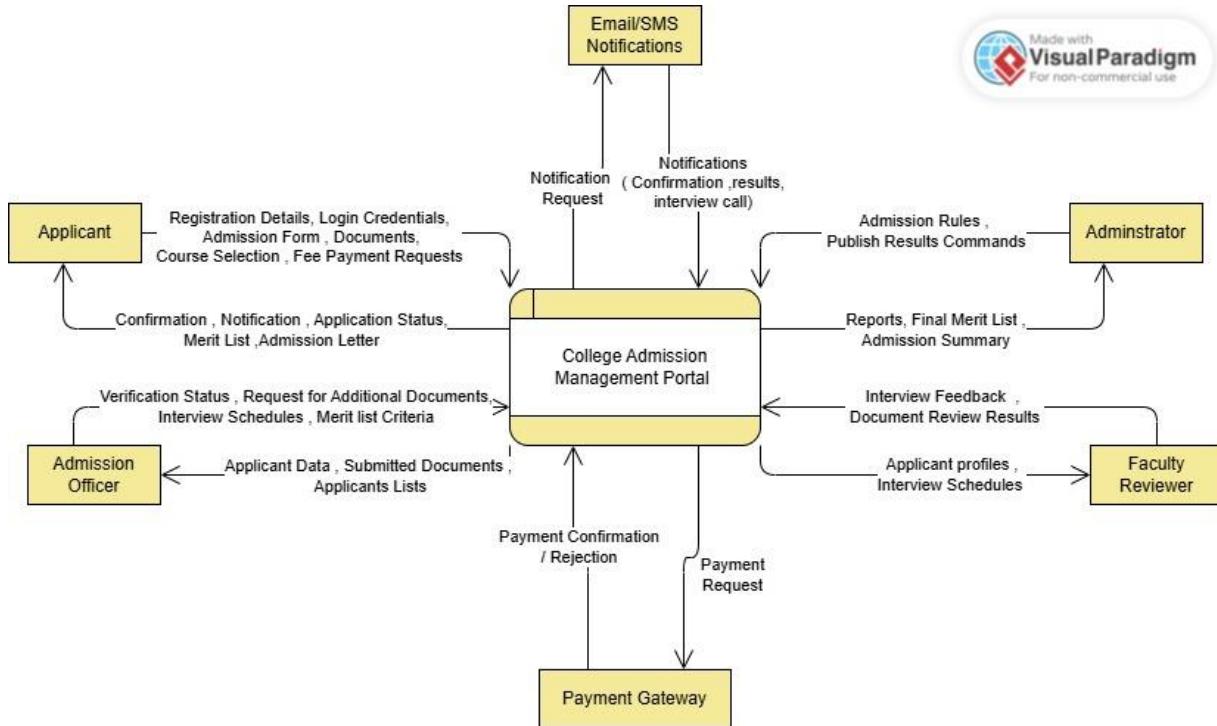
Term / Acronym	Definition / Description
<b>CAP</b>	College Admission Portal – the software system for managing end-to-end college admissions.
<b>SRS</b>	Software Requirements Specification – a document detailing system requirements.
<b>DFD</b>	Data Flow Diagram – graphical representation of data movement through the system.
<b>FR</b>	Functional Requirement – describes what the system must do (behaviors/services).
<b>NFR</b>	Non-Functional Requirement – describes system constraints (performance, security, usability).
<b>Use Case</b>	A specific interaction between an actor and the system to achieve a goal.
<b>Actor</b>	Entity (user or external system) interacting with the system.
<b>Applicant</b>	Student applying for admission through the CAP.
<b>Admission Officer</b>	College staff responsible for verifying applicant documents and status.
<b>Faculty Reviewer</b>	Academic staff responsible for reviewing applicant qualifications and interviews.
<b>Administrator</b>	Senior authority managing CAP settings, policies, and result publication.
<b>Payment Gateway</b>	External service handling fee payments securely (e.g., Razorpay, Paytm).
<b>Email/SMS Service</b>	External system for sending notifications to users.
<b>Merit List</b>	List of shortlisted applicants based on academic and institutional criteria.
<b>Admission Letter</b>	Official document confirming admission of a student.
<b>Eligibility Criteria</b>	Requirements applicants must meet to apply for a specific course/program.
<b>Interview/Exam Schedule</b>	Timetable assigned to applicants for interviews or entrance exams.
<b>Document Verification</b>	Process of checking submitted documents for authenticity and completeness.
<b>Status Update</b>	Notification to the applicant regarding the current stage of application (submitted, verified, shortlisted, rejected, admitted).
<b>OTP (One-Time Password)</b>	Temporary code sent to email/phone for authentication.
<b>UI</b>	User Interface – layout and design of the application front-end.

<b>Term / Acronym</b>	<b>Definition / Description</b>
<b>UX</b>	User Experience – the overall experience of the user interacting with CAP.
<b>REST API</b>	Application programming interface using HTTP for communication between modules/services.
<b>JSON</b>	JavaScript Object Notation – data format for API communication.
<b>SSL/TLS</b>	Secure Sockets Layer / Transport Layer Security – protocols for encrypting data in transit.
<b>AES-256</b>	Advanced Encryption Standard with 256-bit key – used for encrypting sensitive data.
<b>ERP</b>	Enterprise Resource Planning – existing college systems for student, finance, and HR management.
<b>CRUD</b>	Create, Read, Update, Delete – basic database operations.
<b>WCAG 2.1</b>	Web Content Accessibility Guidelines – standards for making web content accessible to people with disabilities.
<b>Load/Concurrency</b>	Number of users the system can handle simultaneously.
<b>Responsive Design</b>	Design approach to make the interface usable on multiple screen sizes.
<b>Admin Dashboard</b>	Portal interface for administrators to manage users, policies, and reports.
<b>Retry Mechanism</b>	Automatic procedure to repeat failed operations, e.g., payment retry.
<b>Provisional Merit List</b>	Temporary list of shortlisted applicants before final approval by admin.
<b>Final Merit List</b>	Approved list of applicants eligible for admission.
<b>Quota Management</b>	Allocation of seats according to categories (General, OBC, SC/ST, etc.).
<b>Admission Confirmation</b>	Final step where applicant confirms seat by paying admission fee and receiving the letter.

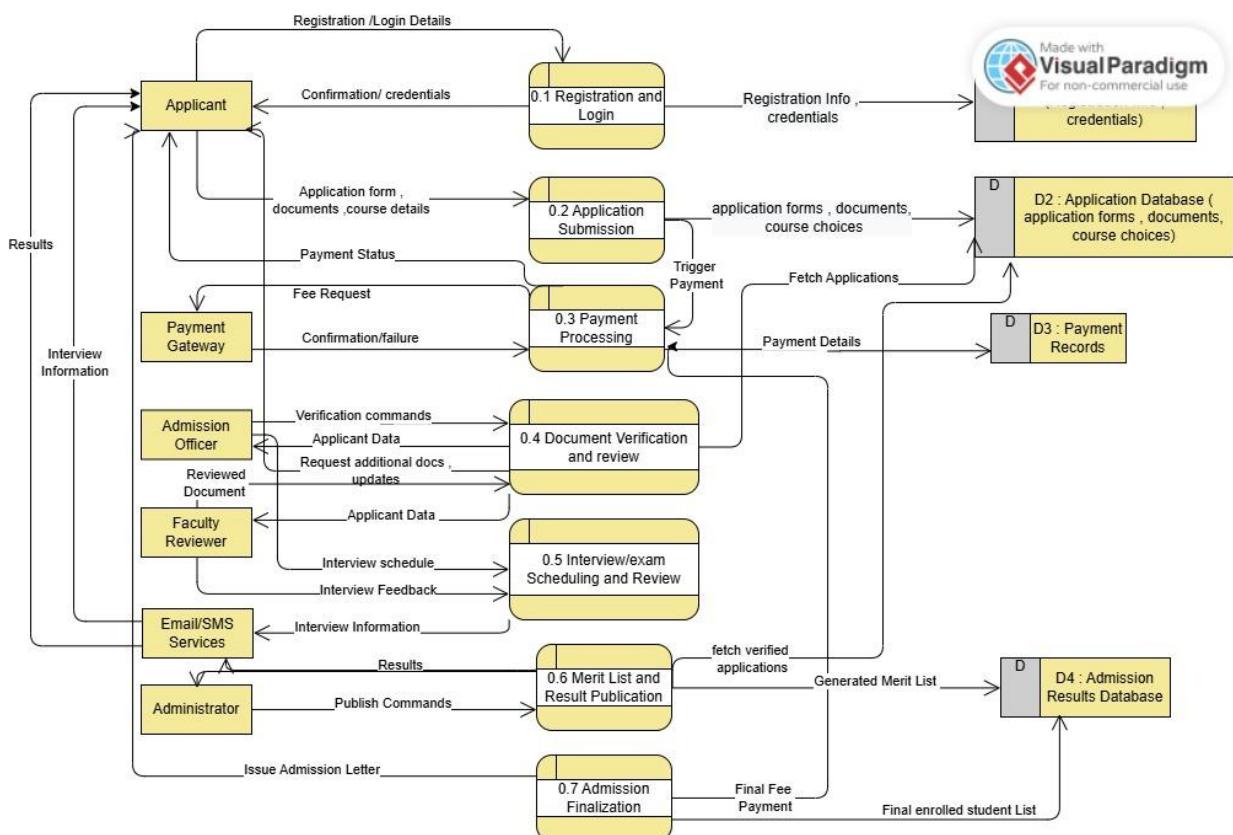
## 4.2 Supporting Diagrams

Below are the supporting diagrams of the College Admission Portal. These diagrams reinforce the functional and architectural understanding of the system.

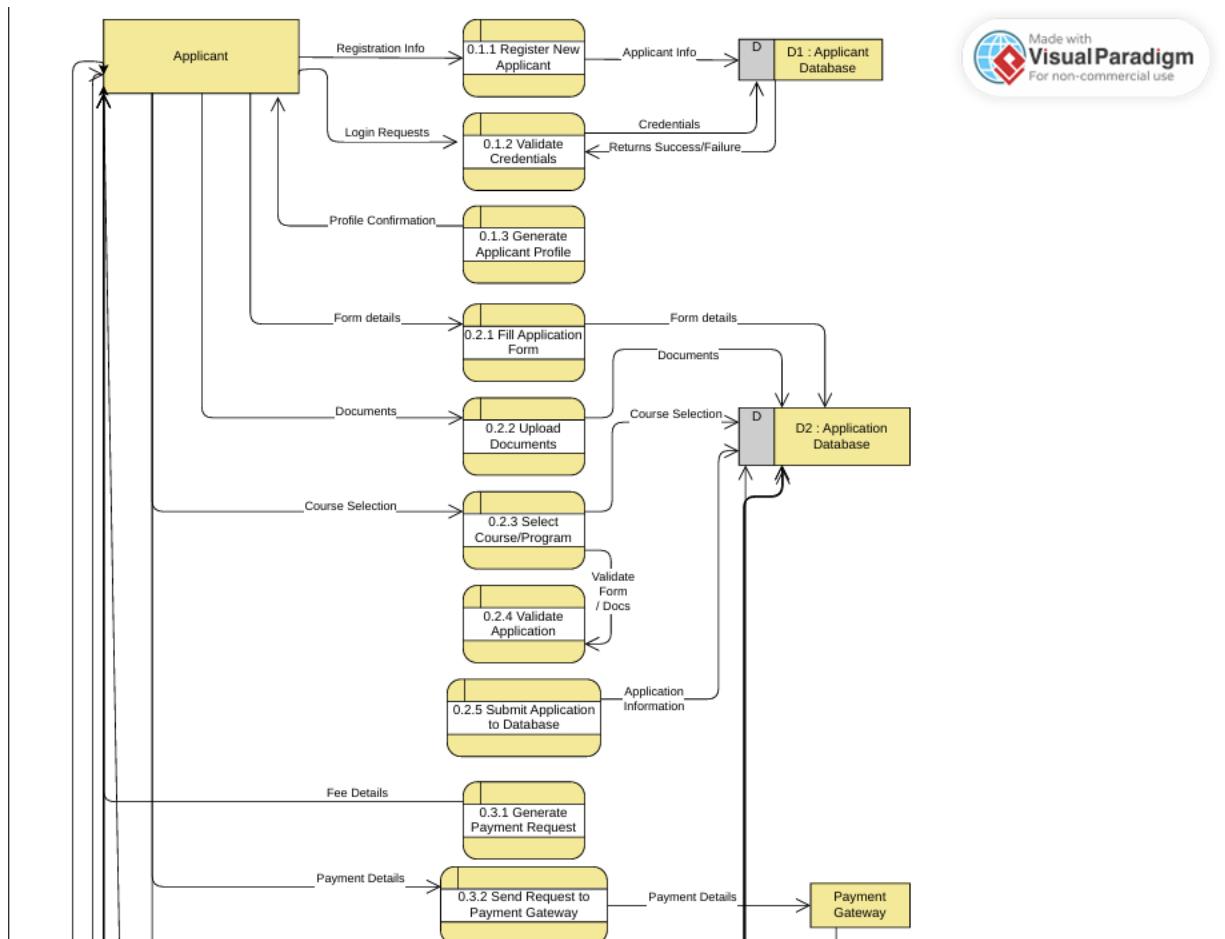
### 4.2.1 Context Level DFD (Level 0)



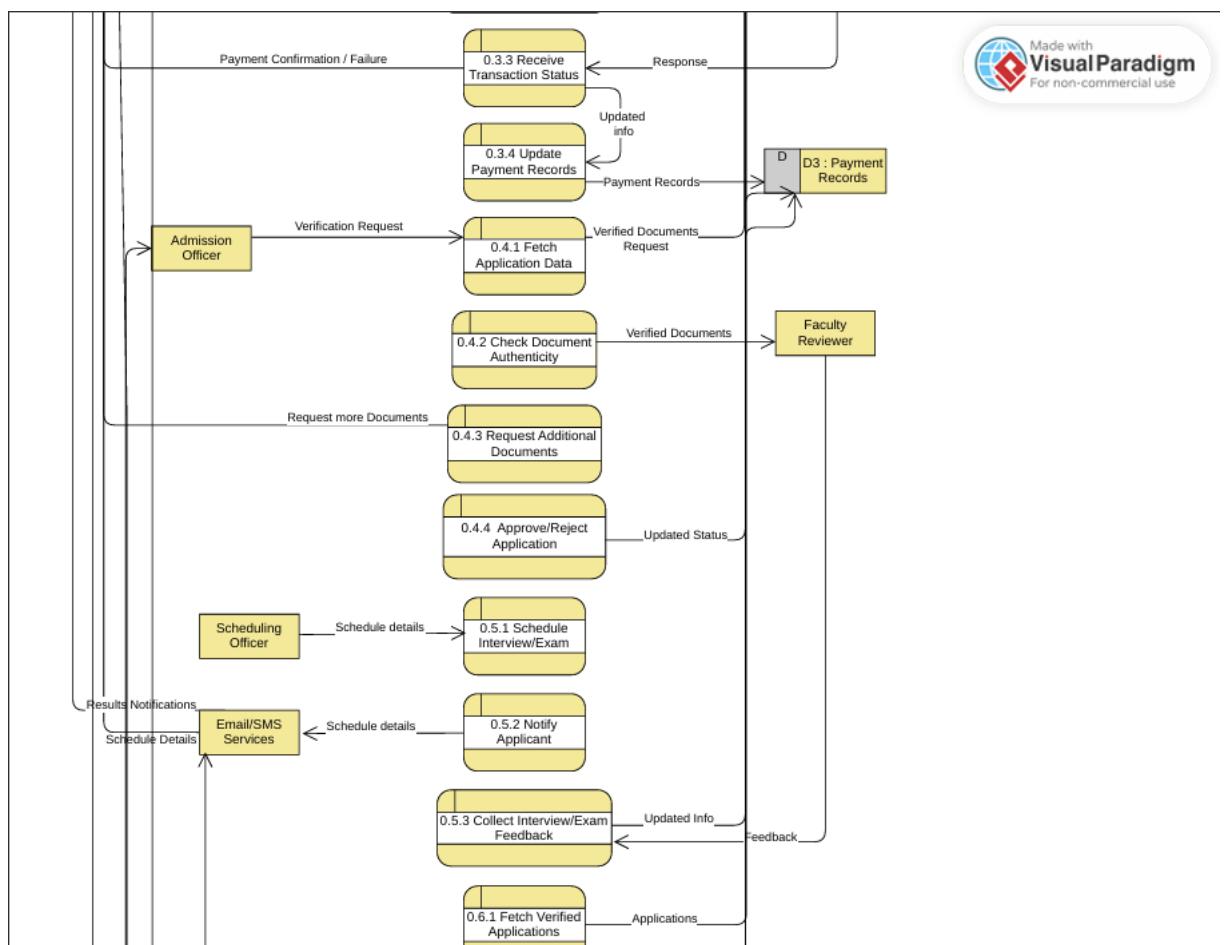
### 4.2.2 Context Level DFD (Level 1)



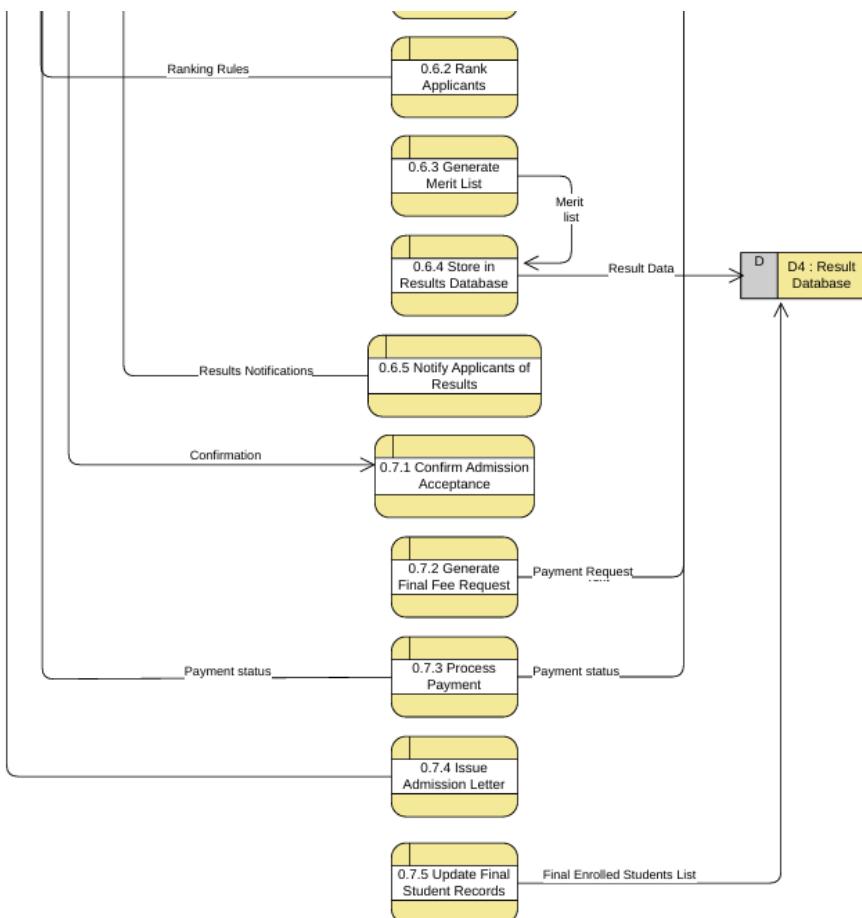
#### 4.2.3 Context Level DFD (Level 2)



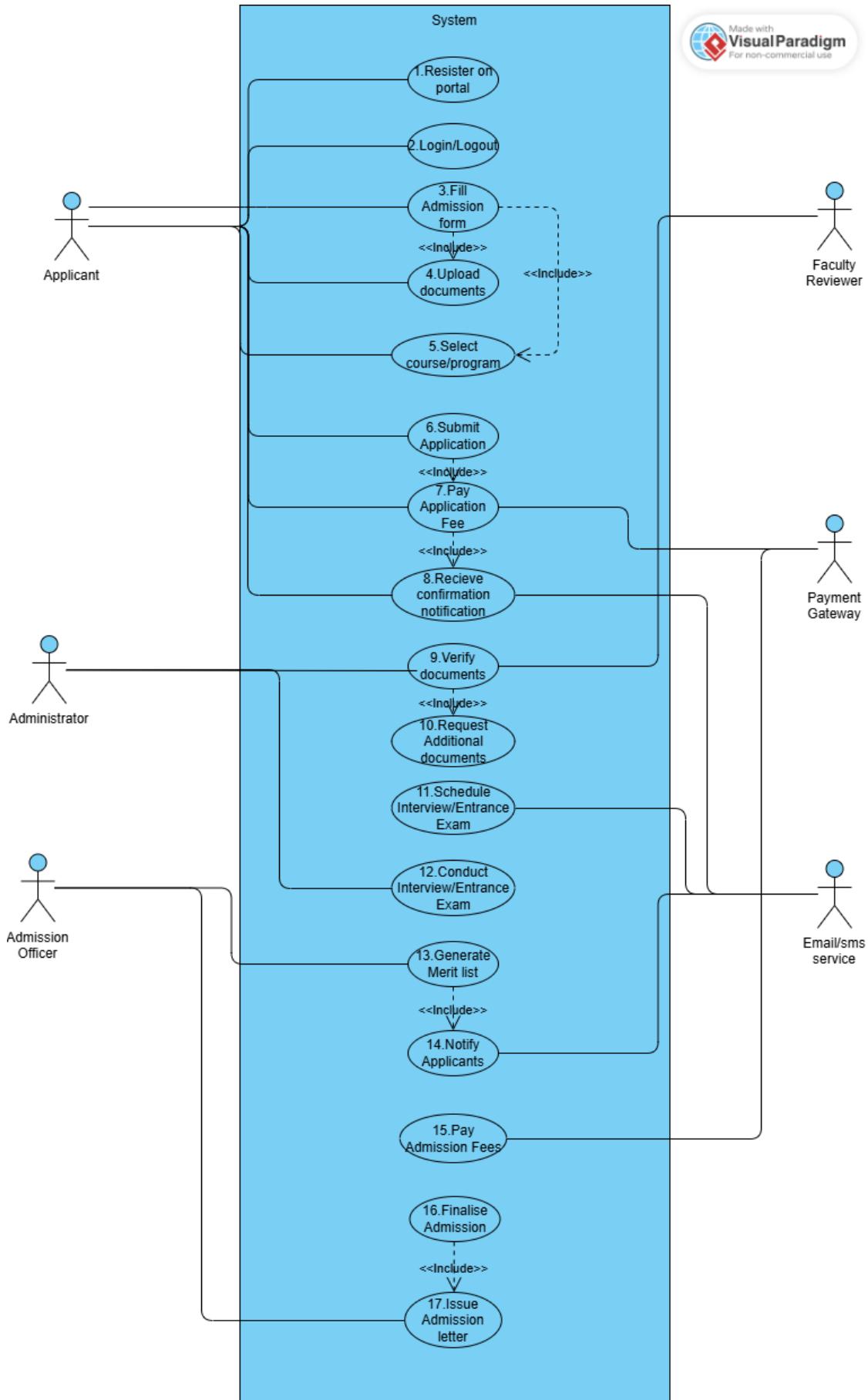
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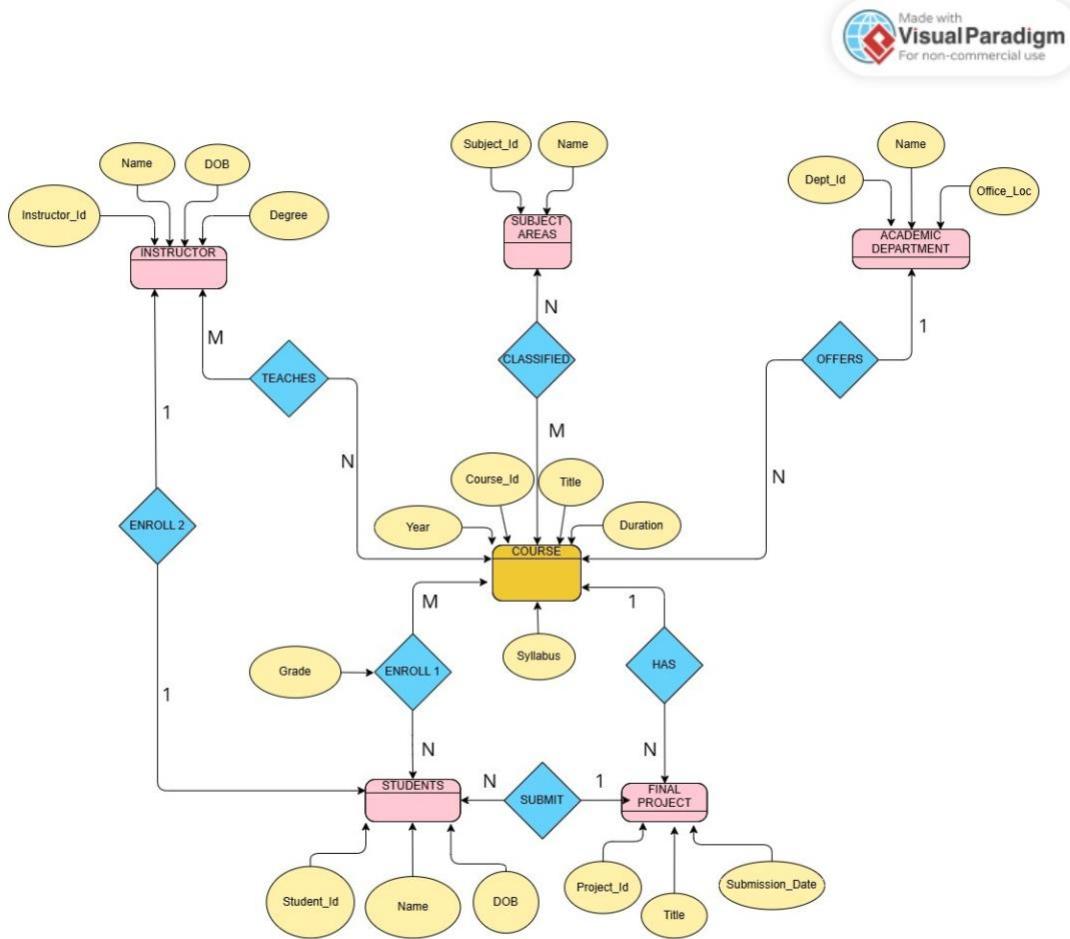
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#### 4.2.4 Use Case Diagram



#### 4.2.5 ER Diagram (Entity Relationship Model)



#### 4.2.6 Sequence Diagram (Optional – Advanced)

##### Applicant Submits Admission Application

##### Actors & Objects:

1. **Applicant** (actor)
2. **CAP Frontend** (UI layer)
3. **CAP Application Server** (backend)
4. **Database** (DB layer)
5. **Payment Gateway** (external system)
6. **Email/SMS Service** (external system)

##### Flow of Interaction

1. **Applicant → CAP Frontend:** Login
  - Applicant enters credentials.
  - Frontend sends login request to Application Server.
2. **CAP Frontend → Application Server:** Authenticate User

- Server validates credentials with Database.
  - Server returns login success/failure to Frontend.
3. **Applicant → CAP Frontend:** Fill Admission Form
- Personal details, academic details, course selection.
4. **CAP Frontend → Application Server:** Submit Form Data
- Server validates input.
  - Stores data in Database.
5. **Applicant → CAP Frontend:** Upload Documents
- Upload PDFs/images.
6. **CAP Frontend → Application Server:** Save Documents
- Server stores document links/metadata in Database.
7. **Applicant → CAP Frontend:** Make Payment
- Select payment option (Credit Card, UPI, Wallet).
8. **CAP Application Server → Payment Gateway:** Process Payment
- Payment Gateway processes and returns transaction status.
9. **CAP Application Server → Database:** Update Payment Status
- Transaction ID, status, timestamp saved.
10. **CAP Application Server → Email/SMS Service:** Send Confirmation
- Email/SMS sent to applicant confirming submission.
11. **CAP Frontend → Applicant:** Display Confirmation Message
- “Application submitted successfully. Payment received.”

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