

# SE (IT632)

## Documentation

### G3: College Assistance and Preparation

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# **Software Requirements Specification**

## 1. Introduction:

This Software Requirements Specification (SRS) document aims to comprehensively outline the requirements for the interactive College Assistance and Preparation System. The system is designed to assist students in navigating their career paths, exploring degree programs, preparing for entrance exams, and facilitating alumni interaction.

The purpose of this document is to delineate the scope and specifications of the College Assistance and Preparation System, serving as a blueprint approved by the client and utilized by the development team. It provides a clear understanding of the functionalities required, guiding the software design, development, and testing phases.

In addition to detailing system functionality, this SRS also encapsulates non-functional requirements, design constraints, and other pertinent factors essential for the successful implementation and operation of the College Assistance and Preparation System.

## 2. Definition:

Below is an alphabetically arranged glossary encompassing terms, acronyms, and abbreviations essential for comprehending and interpreting the software requirements and its intended application.

Term, Acronym, or Abbreviation	Definition
CA	Career Assessment
MT	Mock Test
MTST	Mock Test Sets
DP	Degree Program
EE	Entrance Exam

### **3. Scope:**

The Interactive CA and Preparation System is designed to help students navigate their career paths. Accessible via the web, the system caters to students, alumni, and administrators.

Key features include user authentication, registration, and password management. Users can explore careers through interactive assessments, leading to suggested DP. Detailed program descriptions and institutions offering each program are provided. MT functionalities allow users to view, purchase, and take tests.

Alumni can engage through an inbox for queries. Administrators have access to user and query lists for effective management. The system aims to simplify career exploration, foster alumni engagement, and support lifelong learning.

## **4. User Stories:**

### **Epic: Login**

1. As a user, I want to login using my credentials so that I can access my account.
2. As a user, I want to reset my password if I forgot it so that I can regain access to my account.

### **Epic : Sign Up as a Student**

3. As a student, I want to sign up by providing my basic information like name, password, state, educational qualification so that I can access the features.
4. As a student, I want to see a confirmation message after signing up so that I know it was successful.

### **Epic : Sign Up as an Alumni**

5. As an alumni, I want to sign up by providing my basic details and degree certificate so that I can access the features.
6. As an alumni, I want to see a confirmation message after signing up so that I know it was successful.
7. As an alumni, I want to see a totally new website interface so that I can access the features.

### **Epic: Interactive CA**

8. As a student, I want to take an interactive CA test, so that I can explore career options based on my interests, skills, and personality traits.
  - 8.1 As a student, I want to answer a series of questions about my interests, skills, and personality traits, so that the app can generate a list of potential DP I may enroll into.
  - 8.2 As a student, I want to view a list of suggested DP, so that I can choose to explore these courses.

### **Epic: Explore Degree Program**

9. As a student, I want to see a brief description about a degree program, so I can know more about the degree program.
10. As a student, I want to see a list of institutions in India that run the degree program, so that it helps me to plan for getting into one of those institutes.

### **Epic: Degree Program Institute Information**

11. As a student, I want to see detailed information about degree program institutes, so that it helps me to make a decision on which institute I should join.
  - 11.1 As a student, I want to see the location of the institute.
  - 11.2 As a student, I want to see the EE for that institute, so that I can plan to prepare for that EE.
  - 11.3 As a student I want to see alumni review about that institute, so that I can get to know about the institute from his point of view.

### **Epic: EE Information**

12. As a student, I want to see detailed information about institute EEs, so that it helps me to decide what and how to prepare for the exam.
  - 12.1 As a student, I want to see the syllabus for the EE.
  - 12.2 As a student, I want to see the question paper pattern for the EE.
  - 12.3 As a student I want to see interview articles by people who cracked that EE.

### **Epic: Purchase MTST**

13. As a student, I want to view available MTST so that I can choose the one that best fits my needs.
14. As a student, I want to add a MTST to my cart so that I can purchase it later.
15. As a student, I want to view and manage my cart so that I can review my selections before purchasing.
16. As a student, I want to pay for the MTST in my cart so that I can complete the purchase

### **Epic: View Purchased MTST**

- 17. As a student, I want to view the MTST I purchased so that I can access the study material and resources.
- 18. As a student, I want to see the name of each purchased course so that I can easily identify it.
- 19. As a student, I want to view MTs available in a purchased set, so that I can take a test online.

### **Epic: Query**

- 20. As a user, I want to make a query to the Admin, so that I can clear all my general doubts.
- 21. As a user, I want to make a query to the Alumni, so that I can clear all my doubts related to the course/institute.

### **Epic: MT**

- 22. As a student, I want to take a timer-based MT, so that I can take the test in time bound conditions.
- 23. As a student, I want to view the results of a MT taken, so that I can see my performance.
- 24. As a student, I want to see the answer key of the MT, so that I can know the correct answers.

### **Epic : Alumni Inbox**

- 25. As an alumni, I want to see a list of query messages in my inbox so that I can answer the queries.
- 26. As an alumni, I want to see the number of queries which are pending for the response so that I can respond to it.
- 27. As an alumni, I want to see the pending queries so that I can respond to it.
- 28. As an alumni, I want to give the response to any queries asked by the student.

### **Epic : Admin Access**

- 29. As an admin, I want to access the list of all users so that I can manage them.
- 30. As an admin, I want to access the list of all queries so that I can answer them.
- 31. As an admin, I want to see the number of queries which are pending for the response so that I can respond to it.



32. As an admin, I want to see the pending queries so that I can respond to it.

### **Epic: Logout**

33. As a user, I want to logout of the system after my work is over so that my account remains secure.

34. As a user, I want to see a confirmation message after logging out so that I know it was successful.

## **5. Use Cases:**

### **Use Case 1: User Login**

Actor: User

Description: The user wants to log in using their credentials to access their account.

Preconditions: The user has valid login credentials.

Basic Flow:

- User navigates to the login page.
- User enters their username and password.
- System validates the credentials.
- If valid, the system logs the user in and redirects to the user's account.

Alternate Flow:

- If the credentials are invalid, the system displays an error message, and the user is prompted to enter the correct information.

Exceptional Flow:

- If the user exceeds the allowed number of login attempts, the account is temporarily locked.

### **Use Case 2: Password Reset**

Actor: User

Description: The user wants to reset their password if forgotten.

Preconditions: The user has forgotten their password.

Basic Flow:

- User clicks on the "Forgot Password" link.

- User provides necessary information for verification.
- System validates the information.
- If valid, the system allows the user to reset their password.

Alternate Flow:

- If the provided information is invalid, the system prompts the user to enter correct details.

Exceptional Flow:

- If the user faces issues during the password reset process, they can contact support for assistance.

### **Use Case 3: Student Sign Up**

Actor: Student

Description: The student wants to sign up by providing basic information.

Preconditions: The student has not yet registered on the platform.

Basic Flow:

- Students navigate to the sign-up page.
- Students provide basic information (name, password, state, educational qualification).
- System validates the information.
- If valid, the system creates a new student account.

Alternate Flow:

- If the provided information is incomplete or invalid, the system prompts the student to correct it.

Exceptional Flow:

- If there are technical issues during sign-up, the student is prompted to try again later.

## **Use Case 4: Alumni Sign Up**

Actor: Alumni

Description: The alumni want to sign up by providing basic details and a degree certificate.

Preconditions: The alumni has not yet registered on the platform.

Basic Flow:

- Alumni navigate to the sign-up page.
- Alumni provides basic details and uploads a degree certificate.
- System validates the information.
- If valid, the system creates a new alumni account.

Alternate Flow:

- If the provided information is incomplete or invalid, the system prompts the alumni to correct it.

Exceptional Flow:

- If there are technical issues during sign-up, the alumni are prompted to try again later.

## **Use Case 5: Interactive CA**

Actor: Student

Description: The student wants to take an interactive CA test.

Preconditions: The student is logged into their account.

Basic Flow:

- Students select the "CA" option.

- Students answer a series of questions about interests, skills, and personality traits.
- System generates a list of potential DP.

Alternate Flow:

- If there is an interruption during the assessment, the system allows the student to resume later.

Exceptional Flow:

- If there is a technical issue, the student can contact support for assistance.

## **Use Case 6: Explore DP**

Actor: Student

Description: The student wants to see a brief description of a DP and a list of institutions in India offering it.

Preconditions: The student is logged into their account.

Basic Flow:

- Student selects a DP.
- Students view a brief description of the DP.
- Student sees a list of institutions in India offering the DP.

Alternate Flow:

- If the selected program is not found, the system informs the student and suggests alternative programs.

Exceptional Flow:

- If there are technical issues, the student can contact support for assistance.

## **Use Case 7: DP Institute Information**

Actor: Student

Description: The student wants detailed information about a DP institute.

Preconditions: The student is logged into their account.

Basic Flow:

- Students select an institute within a DP.
- Students view information about the institute, including location and EE details.
- Students see alumni reviews about the institute.

Alternate Flow:

- If the selected institute information is not available, the system informs the student.

Exceptional Flow:

- If there are technical issues, the student can contact support for assistance.

## **Use Case 8: EE Information**

Actor: Student

Description: The student wants detailed information about an institute's EEs.

Preconditions: The student is logged into their account.

Basic Flow:

- Students select an EE.
- Students view information about the EE, including syllabus, question paper pattern, and success stories.

Alternate Flow:

- If the selected EE information is not available, the system informs the student.

Exceptional Flow:

- If there are technical issues, the student can contact support for assistance.

## **Use Case 9: Purchase MTST**

Actor: Student

Description: The student wants to view, add, and purchase MTST.

Preconditions: The student is logged into their account.

Basic Flow:

- Student browses available MTST.
- Students add a MTST to the cart.
- Students view and manage the cart.
- Students proceed to pay for the MTST.

Alternate Flow:

- If there is an issue adding items to the cart, the system informs the student.

Exceptional Flow:

- If there are technical issues during the purchase process, the student can contact support for assistance.

## **Use Case 10: View Purchased MTST**

Actor: Student

Description: The student wants to view the purchased MTST.

Preconditions: The student has purchased MTST.

Basic Flow:

- Student navigates to the "Purchased MTST" section.
- Students view the names of purchased MT.
- Student views MT available in a purchased set.

Alternate Flow:

- If there are no purchased MTST, the system informs the student.

Exceptional Flow:

- If there are technical issues, the student can contact support for assistance.

## **Use Case 11: Take MT**

Actor: Student

Description: The student wants to take a timer-based MT.

Preconditions: The student has selected a MT.

Basic Flow:

- Students select a MT.
- Students take the timer-based MT.
- Students view the results and answer keys after completing the test.

Alternate Flow:

- If there is an interruption during the test, the system allows the student to resume.

Exceptional Flow:

- If there are technical issues during the test, the student can contact support for assistance.

## **Use Case 12: Query to Admin**



Actor: Student

Description: The student intends to submit a query to an administrator for assistance or information.

Preconditions: The student is logged into their account.

Basic Flow:

- Students navigate to Contact us.
- Student navigates to the query form.
- Students enter the query details, including the subject and its description.
- Student submits the query.
- System records the query and sends it to the administrator.

Alternate Flow:

- If the query submission encounters an error, an error message is displayed, and the student can retry the submission.

### **Use Case 13: Query to Alumni**

Actor: Student

Description: The student wishes to submit a query to an alumni for guidance or information.

Preconditions: The student is logged into their account.

Basic Flow:

- Students navigate to the institute details section of a required institute.
- Students select the option to query an alumni of that institute.
- Students enter the query details, including the subject and description.
- Student submits the query.
- System records the query and sends it to the selected alumni.

Alternate Flow:

- If the query submission encounters an error, an error message is displayed, and the student can retry the submission.

## **Use Case 14: Alumni Inbox**

Actor: Alumni

Description: The alumni want to manage queries in their inbox.

Preconditions: The alumni are logged into their account.

Basic Flow:

- Alumni navigate to the inbox.
- Alumni view a list of query messages.
- Alumni sees the number of pending queries.
- Alumni views and responds to pending queries.

Alternate Flow:

- If there are no queries, the system informs the alumni.

Exceptional Flow:

- If there are technical issues, the alumni can contact support for assistance.

## **Use Case 15: Admin Access**

Actor: Admin

Description: The admin wants to manage users and queries.

Preconditions: The admin is logged into their admin account.

Basic Flow:

- Admin accesses the list of all users.
- Admin accesses the list of all queries.
- Admin views the number of pending queries.
- Admin views and responds to pending queries.

Alternate Flow:

- If there are no queries or users, the system informs the admin.

Exceptional Flow:

- If there are technical issues, the admin can seek technical support.

## **Use Case 16: User Logout**

Actor: User

Description: The user wants to log out of the system.

Preconditions: The user is logged into their account.

Basic Flow:

- User clicks on the logout button.
- System logs the user out.

Alternate Flow:

- If the user tries to log out without saving work, the system may prompt the user to confirm.

Exceptional Flow:

- If there are technical issues during the logout process, the user can contact support for assistance.



## 6. Functional Requirements:

Req. No.	Title	Description
FR01	User Authentication	Users must be able to register, login, and logout securely using their credentials.
FR01.1	Registration	Users should be able to register by providing necessary information and creating a username/password.
FR01.2	Login	Registered users should be able to login securely using their credentials.
FR01.3	Logout	Users should be able to securely logout of the system to end their session.
FR01.4	Password Reset	Users should be able to reset their password if forgotten through a secure verification process.
FR02	User Profile Management	Users should be able to update their profiles, including basic information and contact details.
FR02.1	Profile Update	Users should be able to update their profile information such as name, email, and contact details.
FR03	Role-Based Access Control	Different user roles (e.g., admin, student, alumni) should have different access levels and permissions.

<b>FR03.1</b>	<b>Admin Role Management</b>	<b>Admins should be able to assign, update, and remove admin roles to/from users.</b>
<b>FR03.2</b>	<b>Student Role Management</b>	<b>Admins should be able to assign, update, and remove student roles to/from users.</b>
<b>FR03.3</b>	<b>Alumni Role Management</b>	<b>Admins should be able to assign, update, and remove alumni roles to/from users.</b>
<b>FR04</b>	<b>Query Submission</b>	<b>Students should be able to submit queries to administrators or alumni for assistance or information.</b>
<b>FR04.1</b>	<b>Query to Admin Form</b>	<b>Users should have access to a query form where they can enter their query details for the admin.</b>
<b>FR04.2</b>	<b>Query to Alumni Form</b>	<b>Users should have access to a query form where they can enter their query details for the alumni.</b>
<b>FR05</b>	<b>Query Response</b>	<b>Administrators should be able to respond to queries submitted by students.</b>
<b>FR05.1</b>	<b>Admin Side Query Management</b>	<b>Admins should have access to a dashboard to manage and respond to queries.</b>
<b>FR05.2</b>	<b>Admin Side Response Form</b>	<b>Admins should have access to a response form to reply to user queries.</b>

<b>FR06</b>	<b>Course Management</b>	<b>Admins should be able to add, update, and delete courses offered by the platform.</b>
<b>FR06.1</b>	<b>Course Creation</b>	<b>Admins should have access to a form to create new courses with relevant details.</b>
<b>FR06.2</b>	<b>Course Update</b>	<b>Admins should be able to modify existing course details such as name, description.</b>
<b>FR06.3</b>	<b>Course Deletion</b>	<b>Admins should be able to remove outdated or irrelevant courses from the platform.</b>
<b>FR07</b>	<b>Test Management</b>	<b>Admins should be able to add, update, and delete MT available for students.</b>
<b>FR07.1</b>	<b>Test Creation</b>	<b>Admins should have access to a form to create new MT with relevant details.</b>
<b>FR07.2</b>	<b>Test Update</b>	<b>Admins should be able to modify existing MT details such as name, duration, or questions.</b>
<b>FR07.3</b>	<b>Test Deletion</b>	<b>Admins should be able to remove outdated or irrelevant MT from the platform.</b>
<b>FR08</b>	<b>CA</b>	<b>Students should be able to take an interactive CA test to explore career options.</b>

<b>FR08.1</b>	<b>Assessment Test</b>	<b>Students should have access to a series of questions related to interests, skills, and personality.</b>
<b>FR08.2</b>	<b>Result Generation</b>	<b>The system should generate a list of potential DP based on the assessment results.</b>
<b>FR09</b>	<b>DP Exploration</b>	<b>Students should be able to explore detailed information about DP and institutes.</b>
<b>FR09.1</b>	<b>Program Description</b>	<b>Students should have access to detailed descriptions of DP, including curriculum and faculty.</b>
<b>FR09.2</b>	<b>Institute Information</b>	<b>Students should be able to view information about institutes offering the selected DP.</b>
<b>FR09.3</b>	<b>EE Details</b>	<b>Students should have access to details about EE required for admission to institutes.</b>
<b>FR10</b>	<b>MT Purchase</b>	<b>Students should be able to view and purchase MTST available on the platform.</b>
<b>FR10.1</b>	<b>MT Catalog</b>	<b>Students should have access to a catalog displaying available MTST with relevant details.</b>
<b>FR10.2</b>	<b>Cart Management</b>	<b>Students should be able to add, remove, and manage MTST in their shopping cart.</b>



<b>FR10.3</b>	<b>Payment Integration</b>	The system should integrate with payment gateways to facilitate secure transactions for MT purchases.
<b>FR11</b>	<b>MT Access</b>	Students who have purchased MTST should be able to access the tests online.
<b>FR12</b>	<b>Take MT</b>	Students must be able to take the purchased MTs online.
<b>FR12.1</b>	<b>Start MT</b>	Students should be able to start the MT they have purchased.
<b>FR12.2</b>	<b>End MT</b>	Students should be able to end the MT they have started.
<b>FR12.3</b>	<b>See Result MT</b>	Students should be able to see the result of the MT they took.
<b>FR13</b>	<b>Alumni Inbox Management</b>	Alumni should be able to view, manage, and respond to queries received from students.
<b>FR13.1</b>	<b>Query Viewing</b>	Alumni should have access to a dashboard to view queries received from students.
<b>FR13.2</b>	<b>Query Response</b>	Alumni should be able to respond to queries submitted by students.
<b>FR14</b>	<b>Admin Dashboard</b>	Admins should have access to a dashboard displaying registered users, course, institute, query, etc.

<b>FR14.1</b>	<b>Dashboard Overview</b>	<b>Admins should have an overview of key system metrics and performance indicators on the dashboard.</b>
<b>FR14.2</b>	<b>Query Management</b>	<b>Admins should be able to view and respond to queries submitted by students from the dashboard.</b>
<b>FR15</b>	<b>User Management</b>	<b>Admins should be able to manage user accounts, including adding, updating, and deleting users.</b>
<b>FR15.1</b>	<b>User Registration</b>	<b>Admins should have access to a form to register new users with relevant details.</b>
<b>FR15.2</b>	<b>User Update</b>	<b>Admins should be able to modify existing user details such as role, permissions, or contact information.</b>
<b>FR15.3</b>	<b>User Deletion</b>	<b>Admins should be able to remove inactive or unauthorized users from the system.</b>

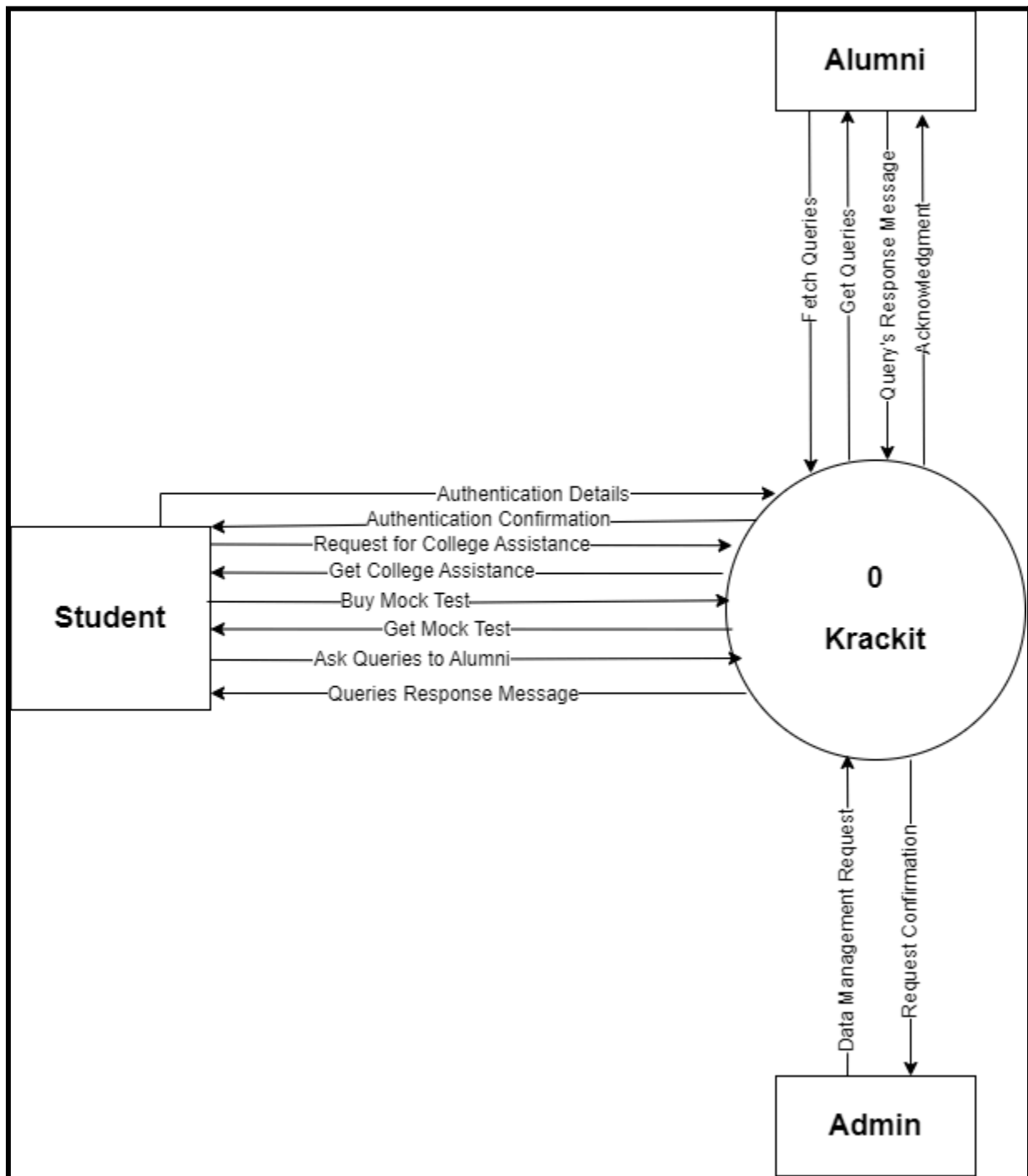
## 7. Non-Functional Requirements:

Req. No.	Title	Requirement
NF01	Usability	The system should have a clean user interface for ease of use by students and alumni.
		Navigation should be straightforward, with clear labels and instructions provided where necessary.
NF02	Performance	The system should provide fast response times for all operations, including loading pages, generating recommendations, and processing transactions.
		Response times should be optimized to ensure a seamless user experience even during peak usage periods.
NF03	Security	User authentication and data transmission should be encrypted to ensure the security of user data.
		Passwords should be securely stored using encryption.
		Access to sensitive information, such as user details and transaction data, should be restricted to authorized users only.
NF04	Reliability	The system should have a high level of reliability, with minimal downtime and system failures.
		Regular maintenance and monitoring should be performed to identify and address any issues promptly.
NF05	Compatibility	The system should be compatible with a wide range of web browsers and devices to accommodate users with different preferences and technology configurations.
		Compatibility testing should be conducted to ensure consistent performance across various platforms.

<b>NF06</b>	<b>Accessibility</b>	The system should adhere to accessibility standards to ensure access for all users, including those with disabilities.
		Features such as alternative text for images, keyboard navigation, and screen reader compatibility should be implemented.
<b>NF07</b>	<b>Privacy</b>	The system should comply with privacy regulations and standards to protect the confidentiality of user information.
		User consent should be obtained for the collection and use of personal data, and data handling practices should be transparent and secure.
<b>NF08</b>	<b>Documentation</b>	Comprehensive documentation should be provided for system users, administrators, and developers to facilitate understanding and usage of the system.
		Documentation should include user manuals, admin guides, API documentation, and system architecture diagrams.

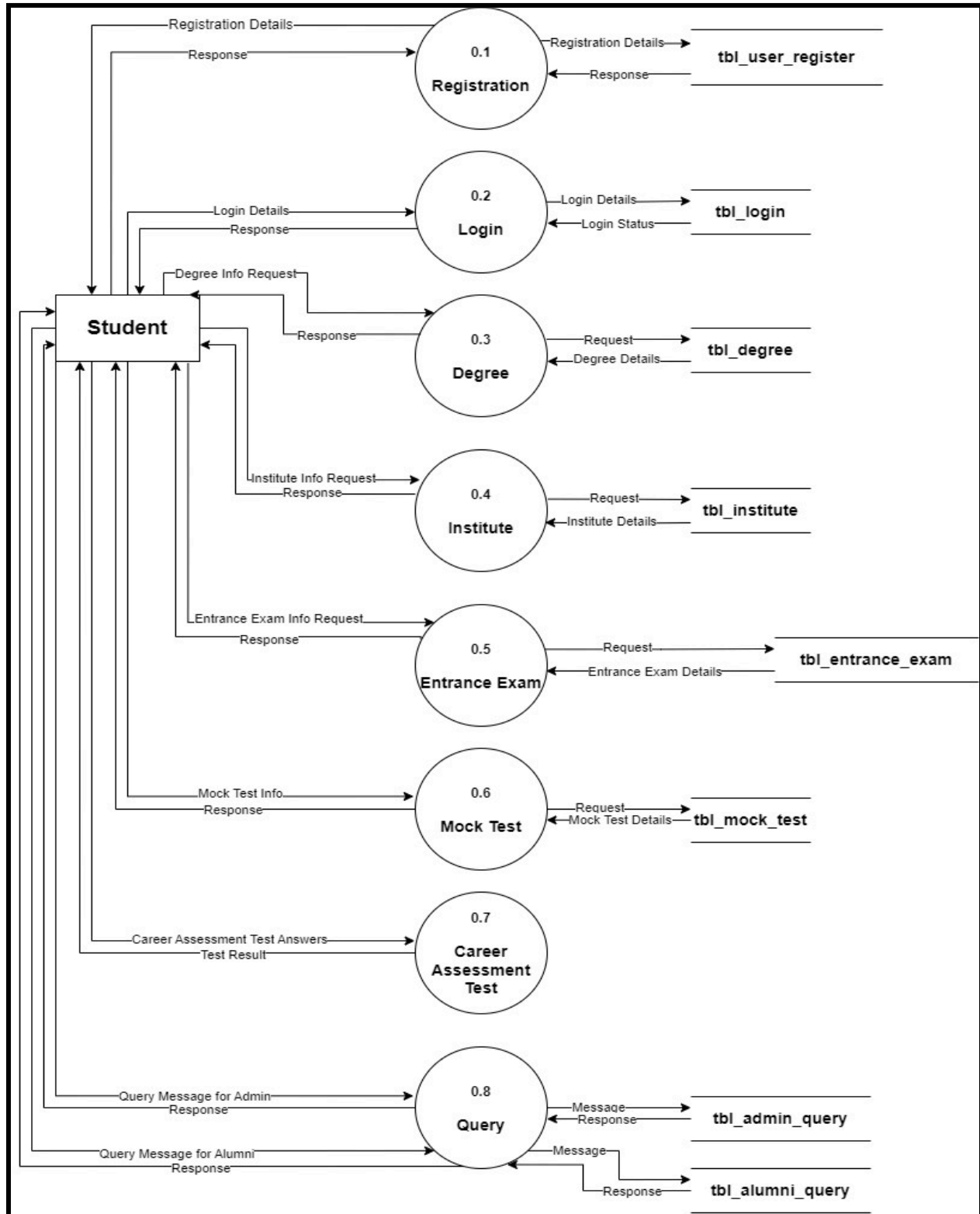
## **Data Flow Diagram (DFD)**

## Level - 0 DFD:

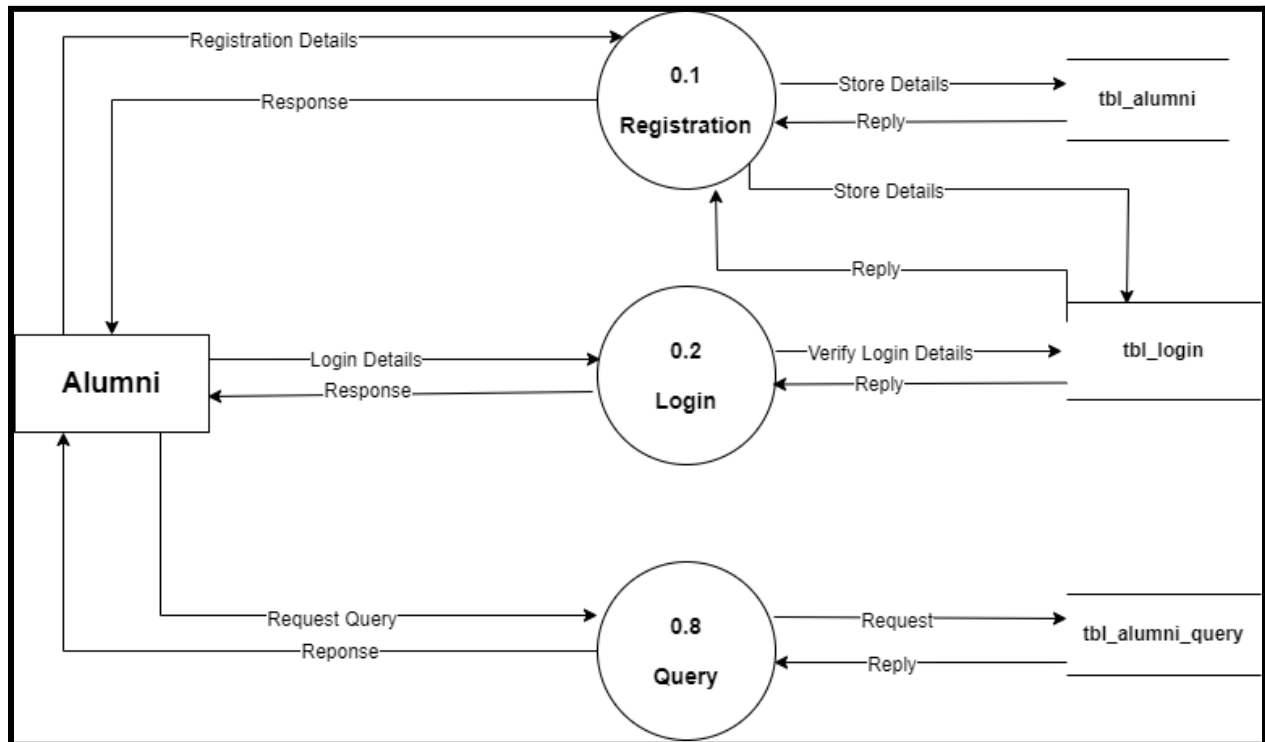


## Level - 1 DFD:

### Student:

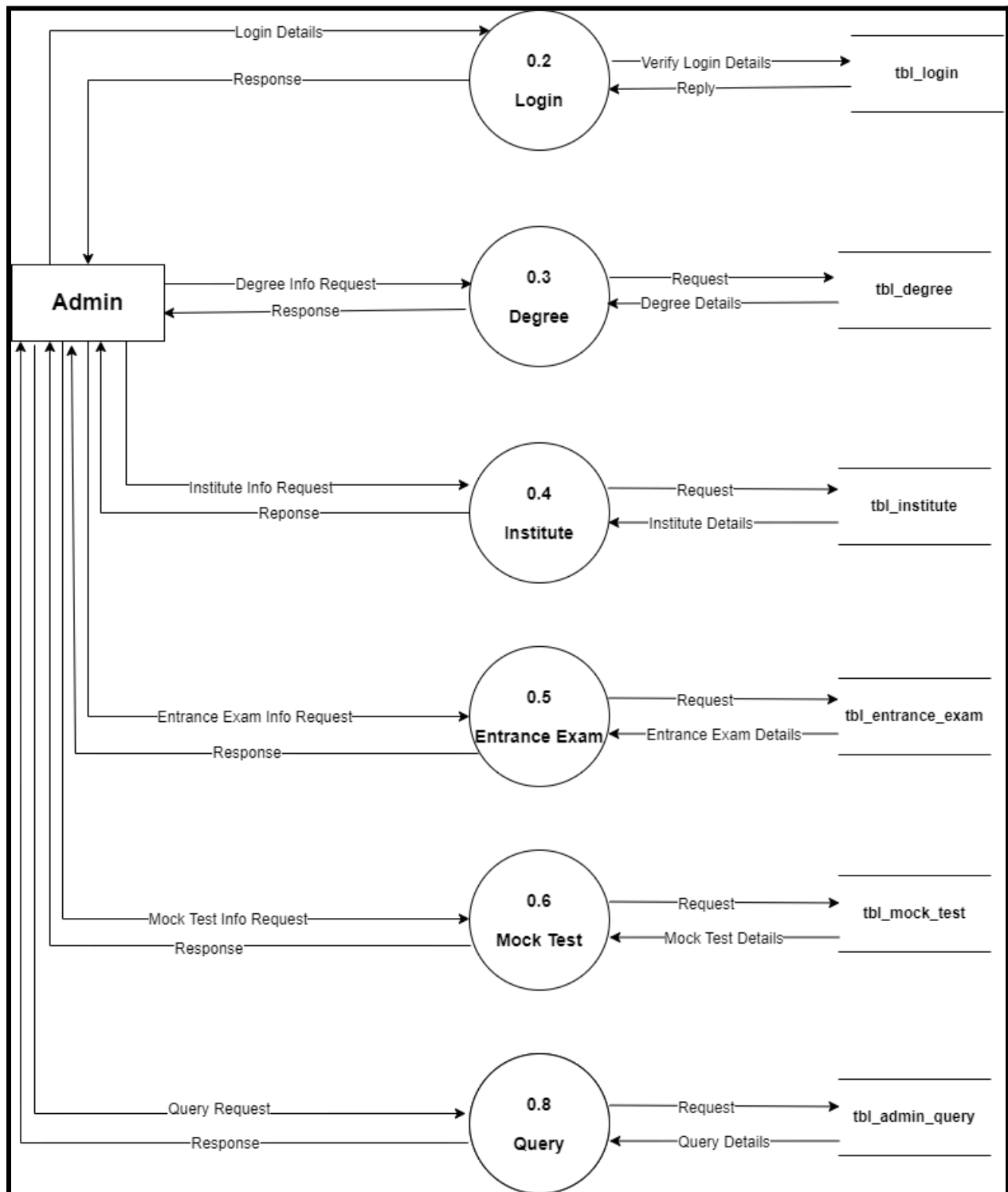


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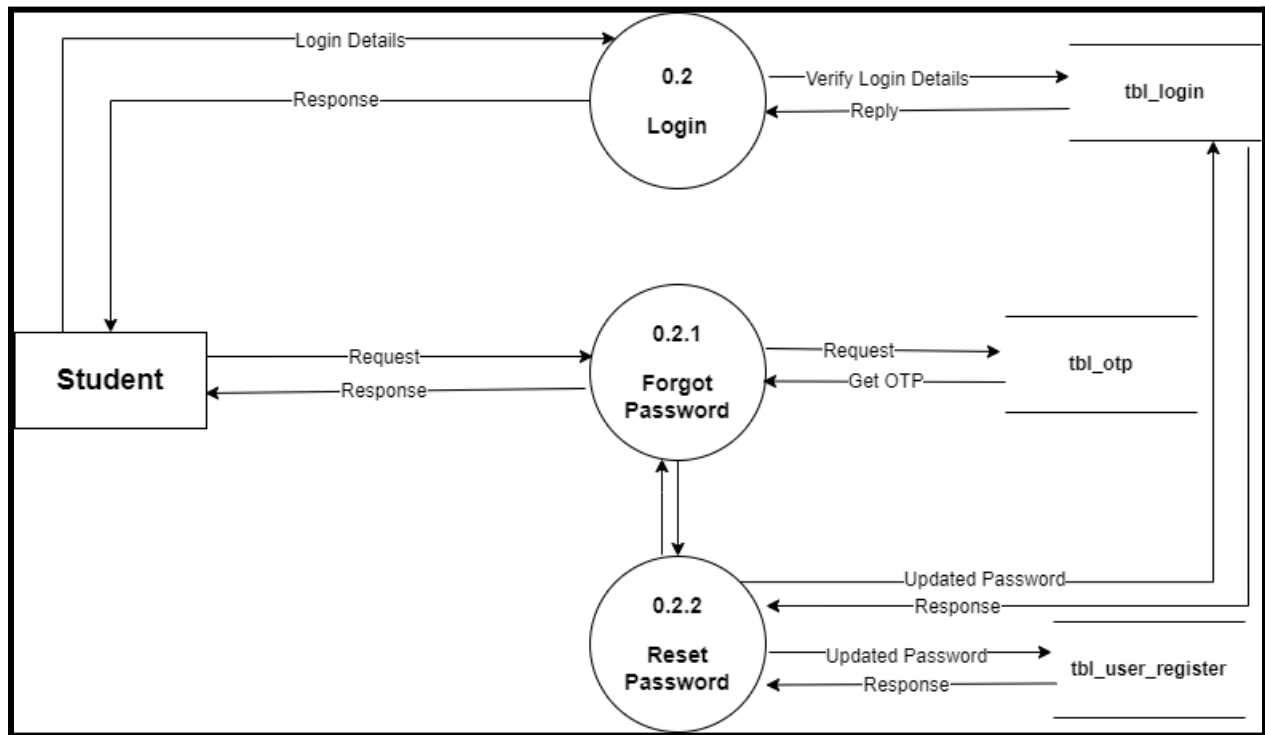


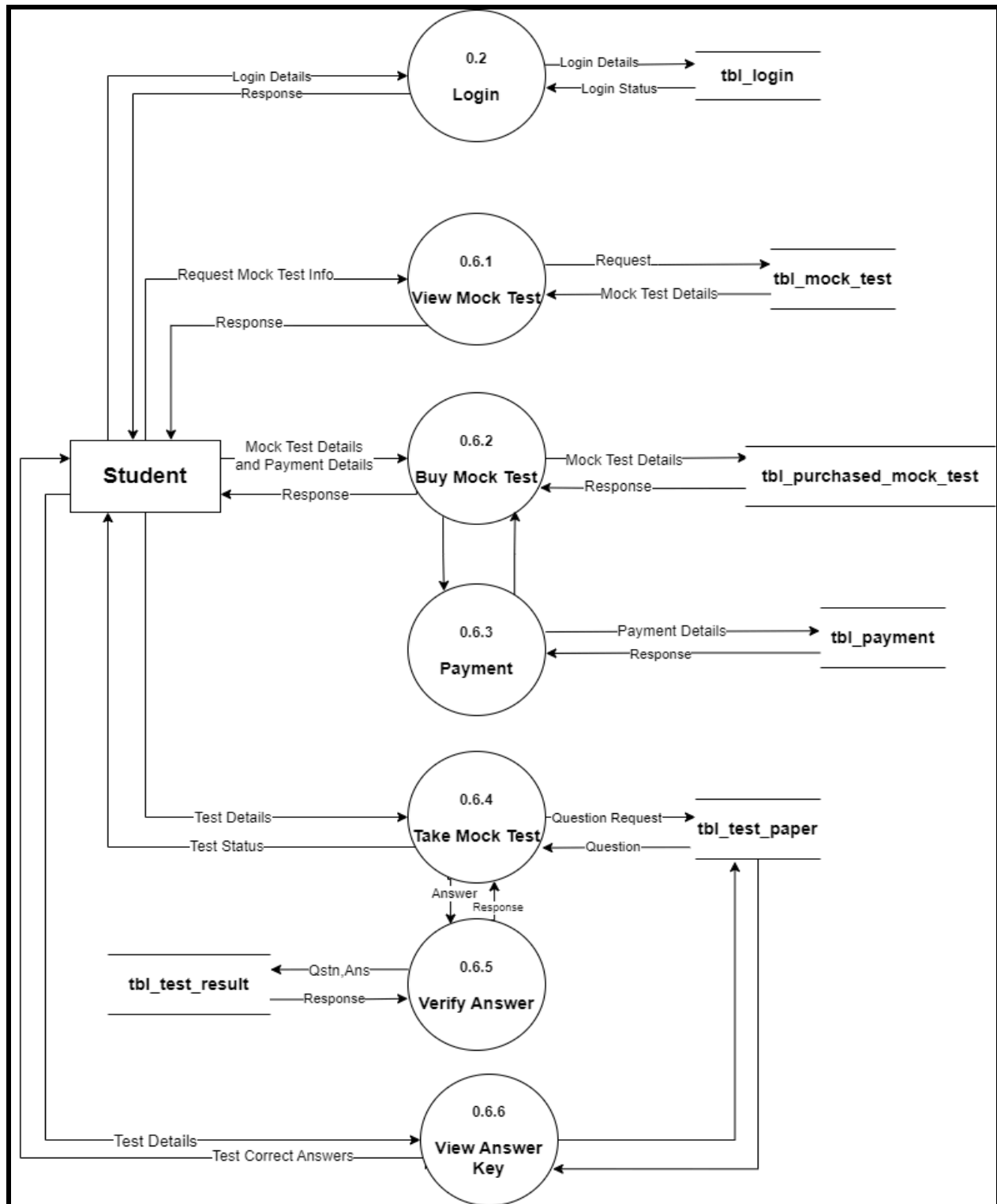
## Admin:

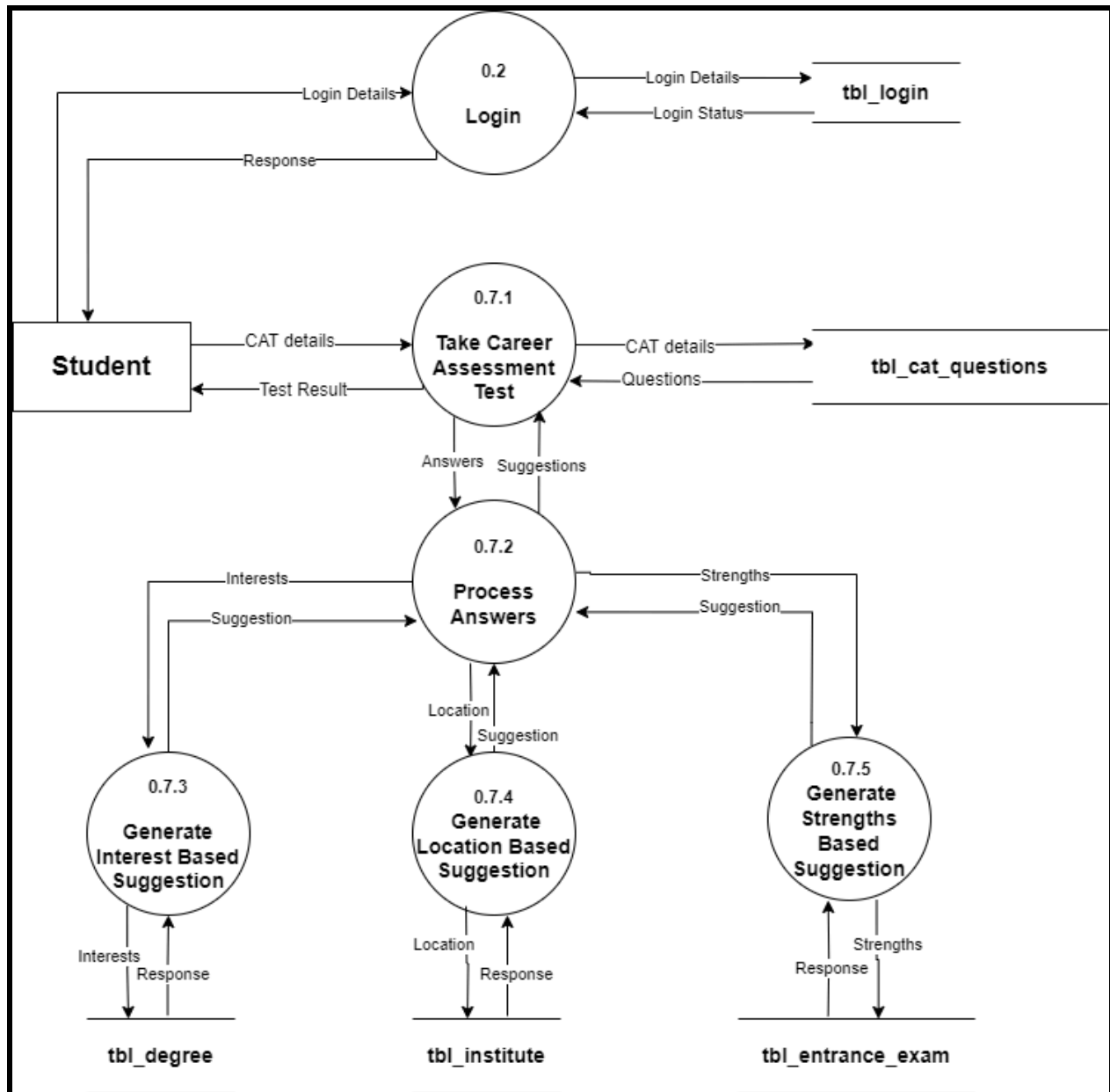


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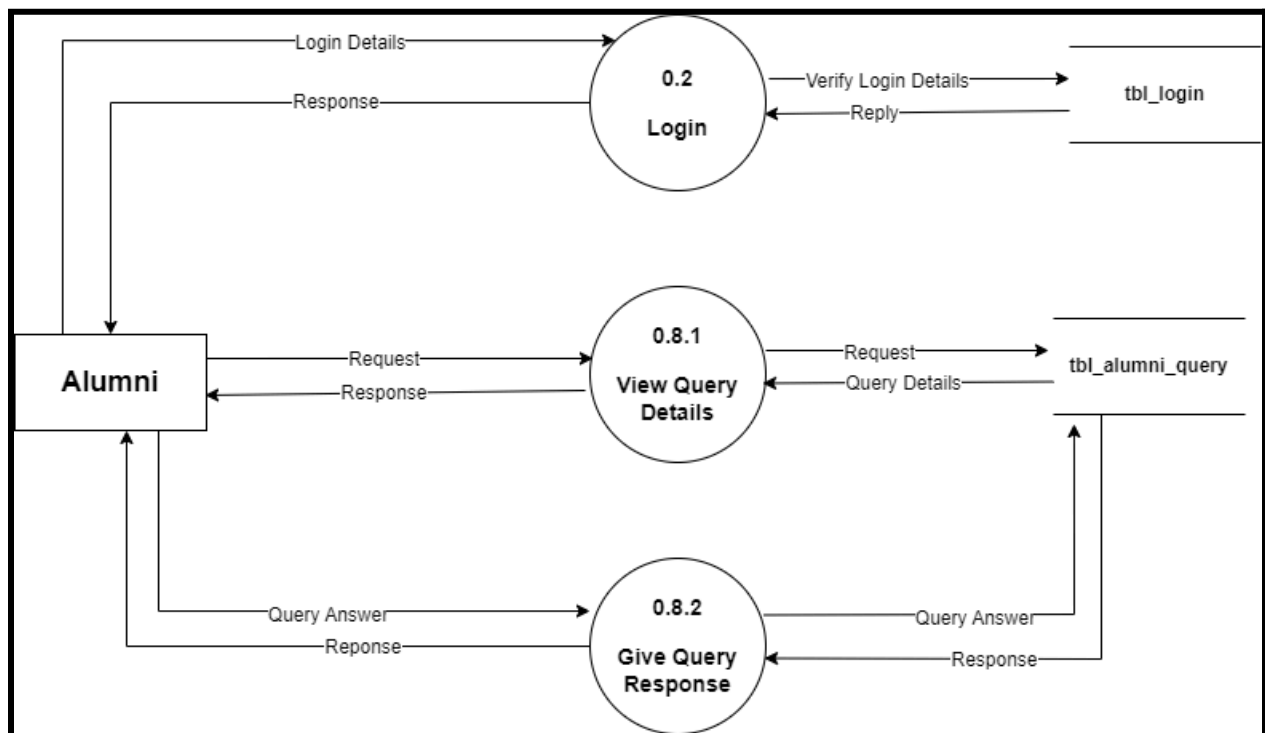
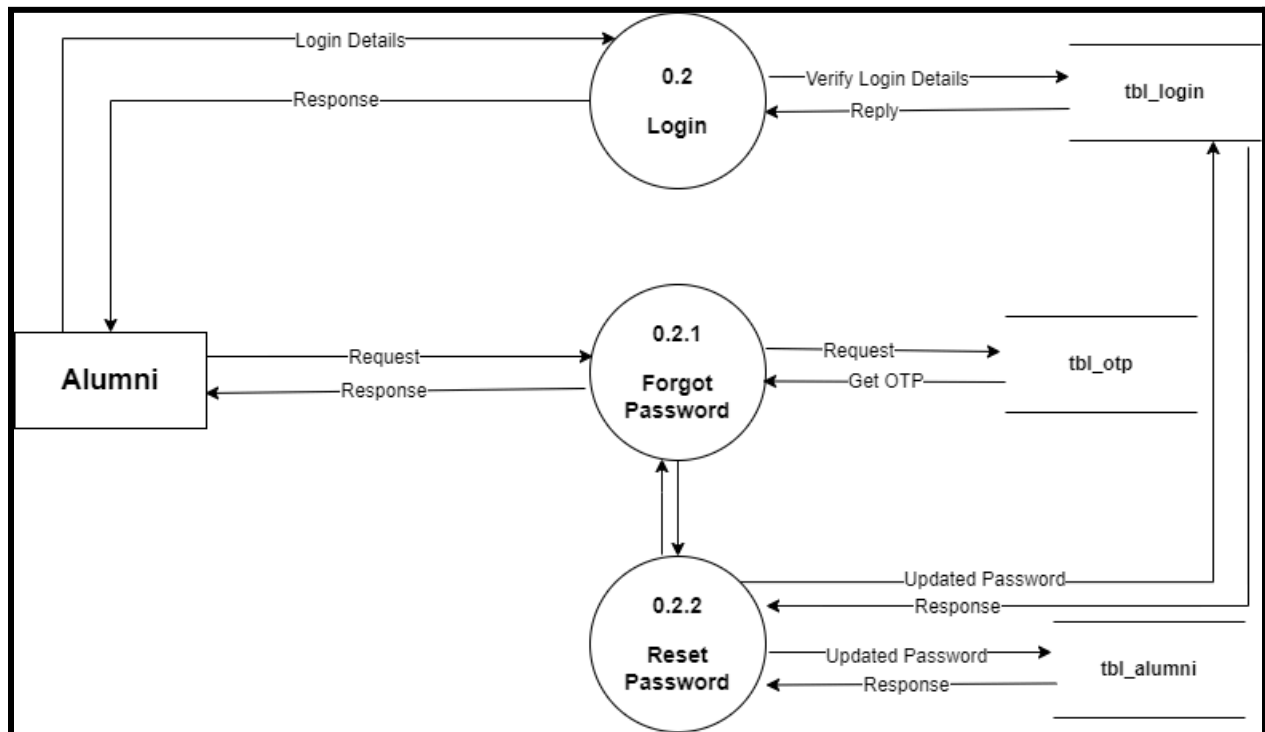
Student:



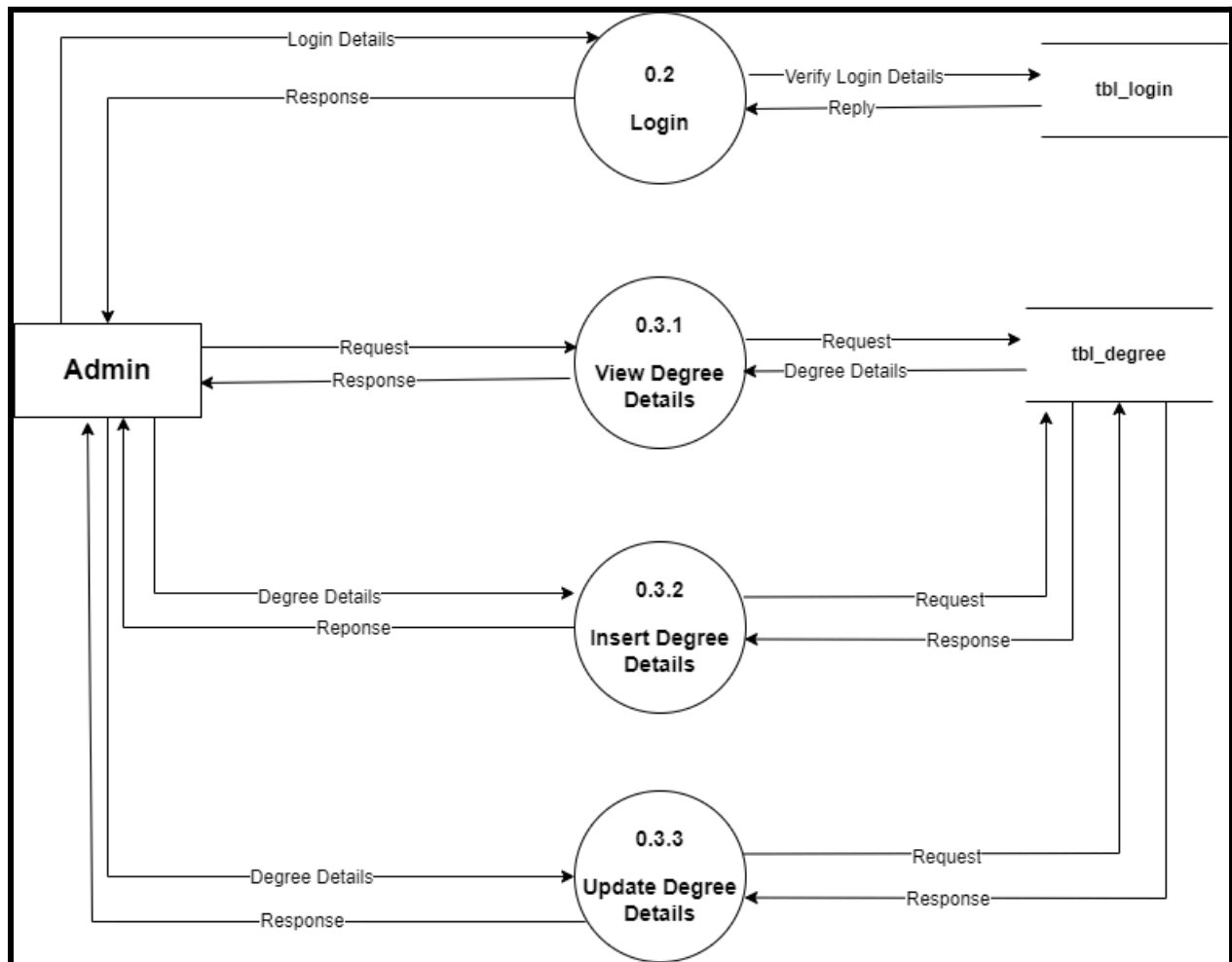


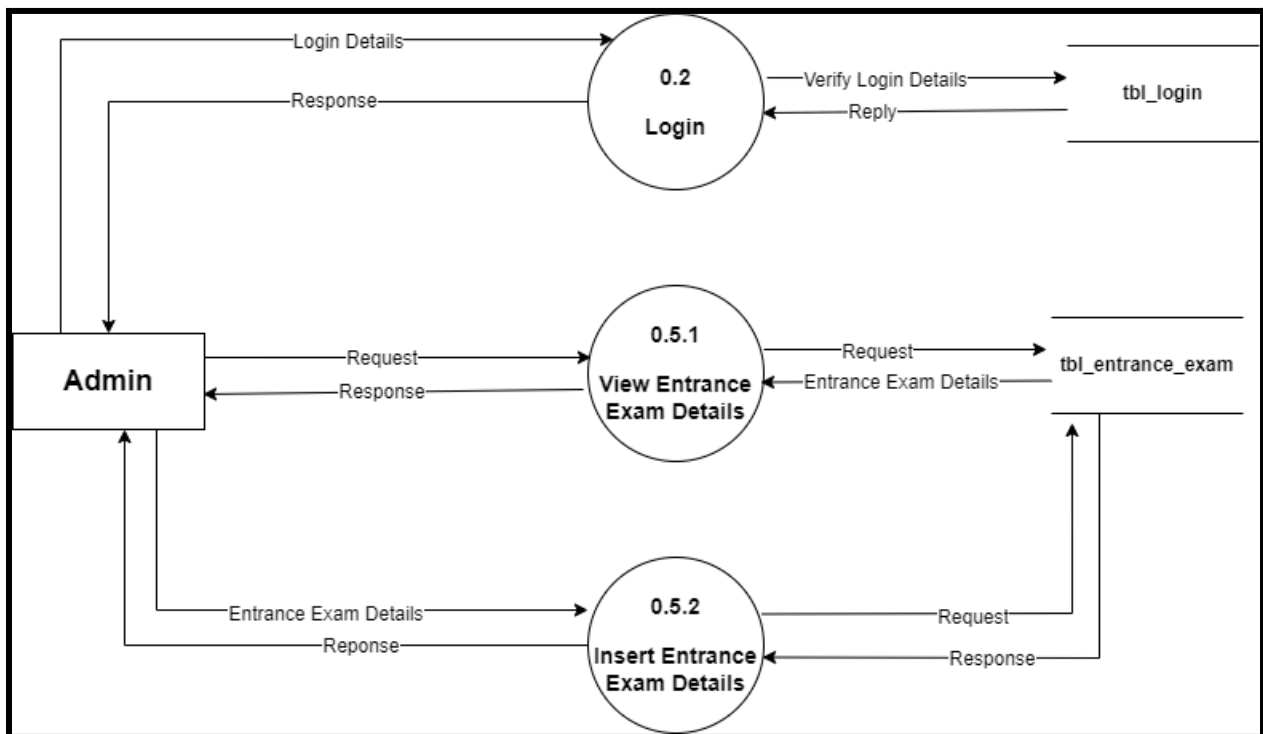
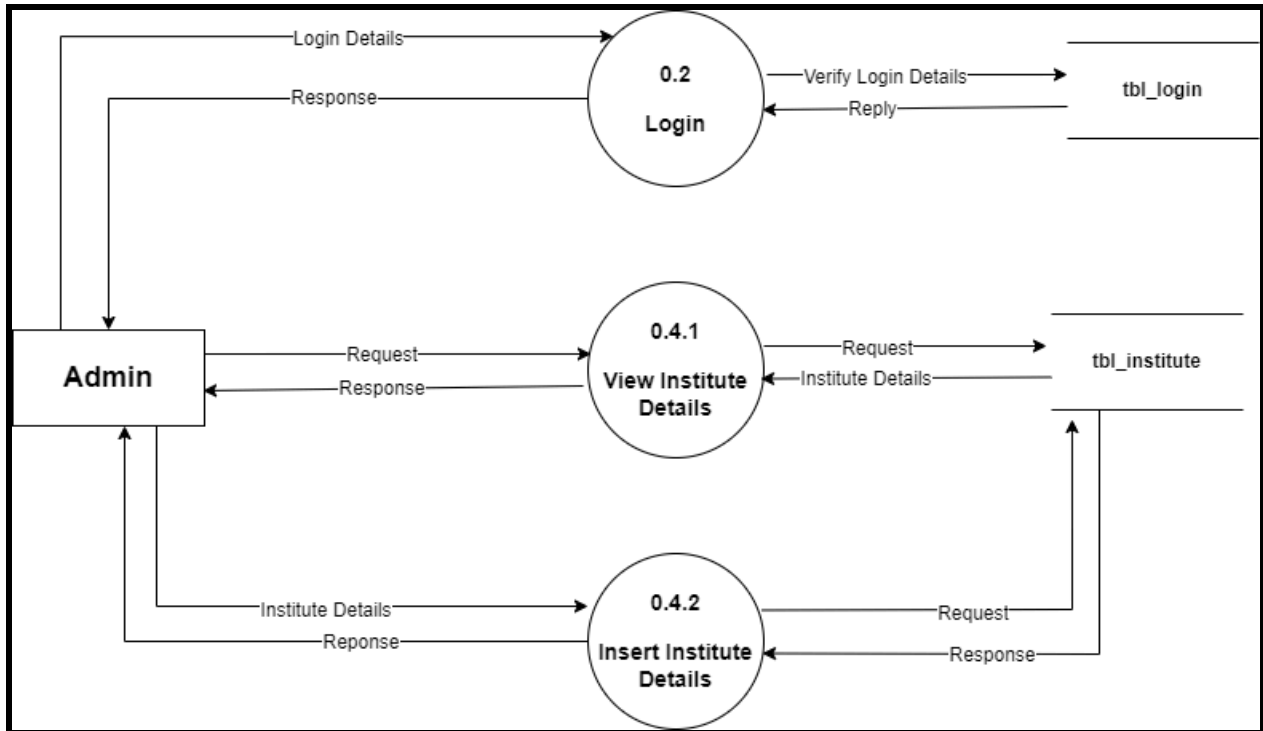


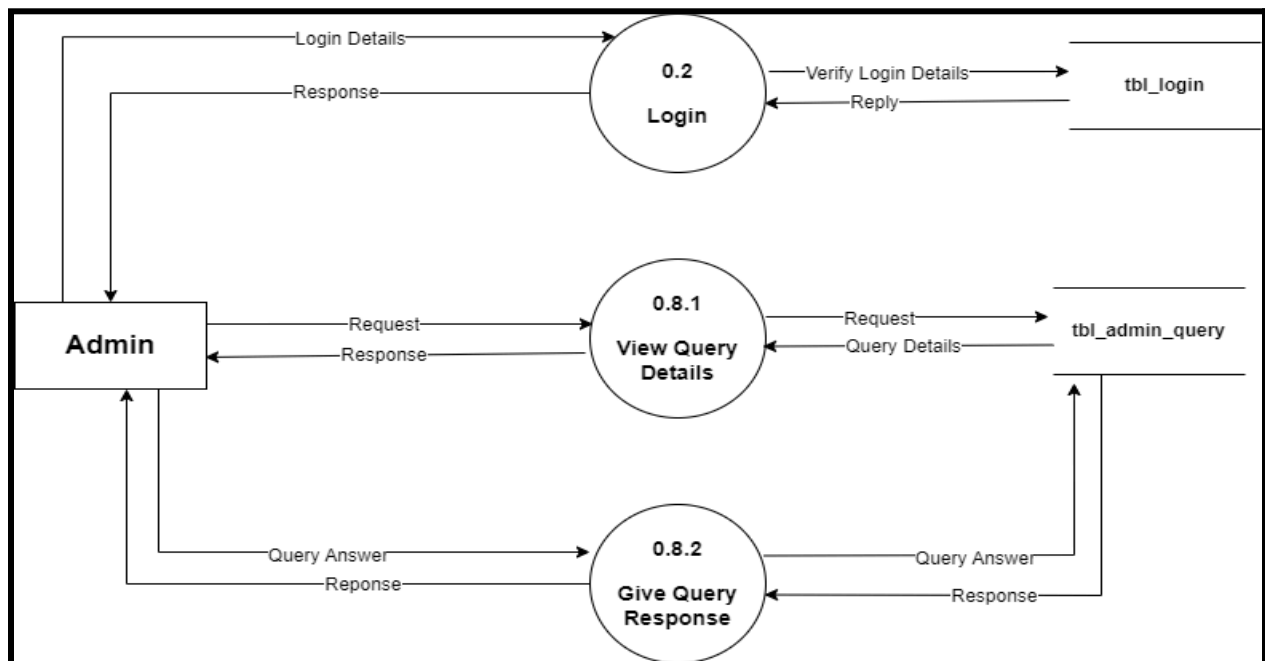
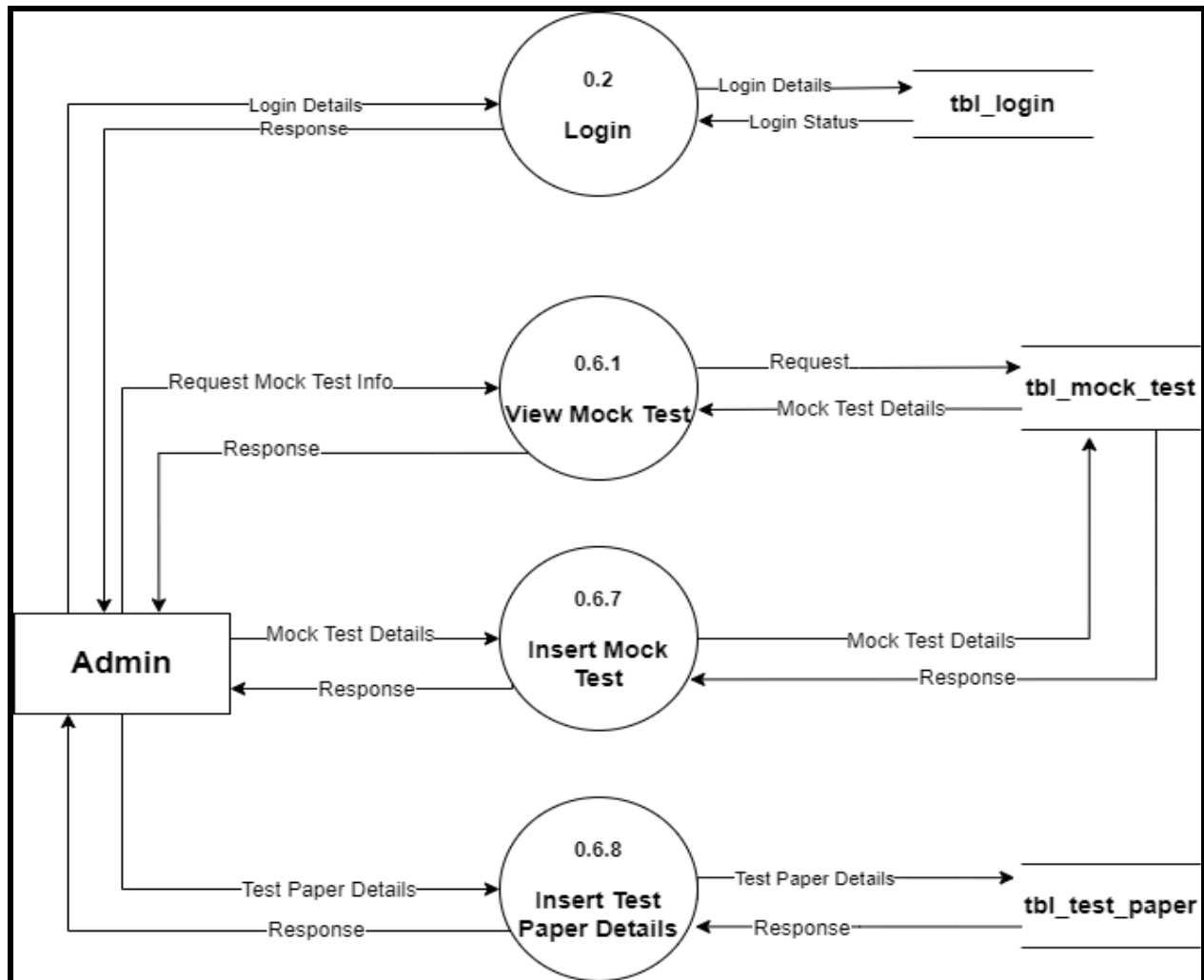
## Alumni:



## Admin:



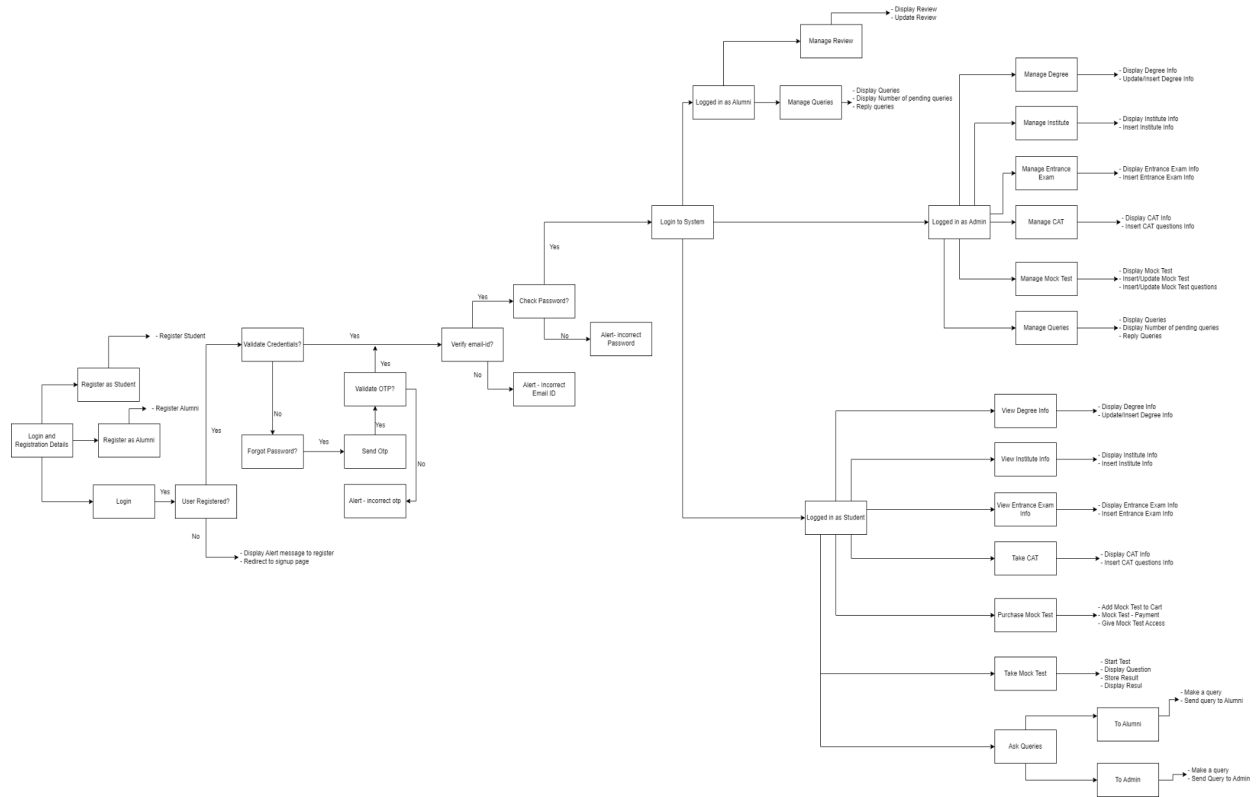






## **Decision Tree and Decision Table**

# Decision Tree:



## Decision Table:

Login				
Condition	Rule1	Rule2	Rule3	Rule4
Username	NO	NO	YES	YES
Password	NO	YES	NO	YES
Action	Error	Error	Error	Login

Forgot Password				
Conditions	Rule 1	Rule 2	Rule 3	Rule 4
Input Username or Email	YES	YES	YES	YES
Username or Email Exists	YES	NO	YES	YES
OTP Correct	-	-	YES	NO
Action	Allow Password Reset	Error	Reset Password	Error
	Send OTP			

Check User Type			
Condition			
Admin	YES	NO	NO
Alumni	NO	YES	NO
Student	NO	NO	YES

Action	Display Admin Panel	Display Alumni Panel	Display Student Home Page
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Admin Panel						
Condition	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5	Rule 6
Manage Degree	YES	NO	NO	NO	NO	NO
Manage Institute	NO	YES	NO	NO	NO	NO
Manage Entrance Exam	NO	NO	YES	NO	NO	NO
Manage CAT	NO	NO	NO	YES	NO	NO
Manage Mock Test	NO	NO	NO	NO	YES	NO
Manage Queries	NO	NO	NO	NO	NO	YES
Action	- Display Degree Info	- Display Institute Info	- Display Entrance Exam Info	- Display CAT Info	- Display Mock Test	- Display Queries
	- Update/Insert Degree Info	- Insert Institute Info	- Insert Entrance Exam Info	- Insert CAT questions Info	- Insert/Update Mock Test	- Display Number of pending queries
					- Insert/Update Mock Test questions	- Reply Queries

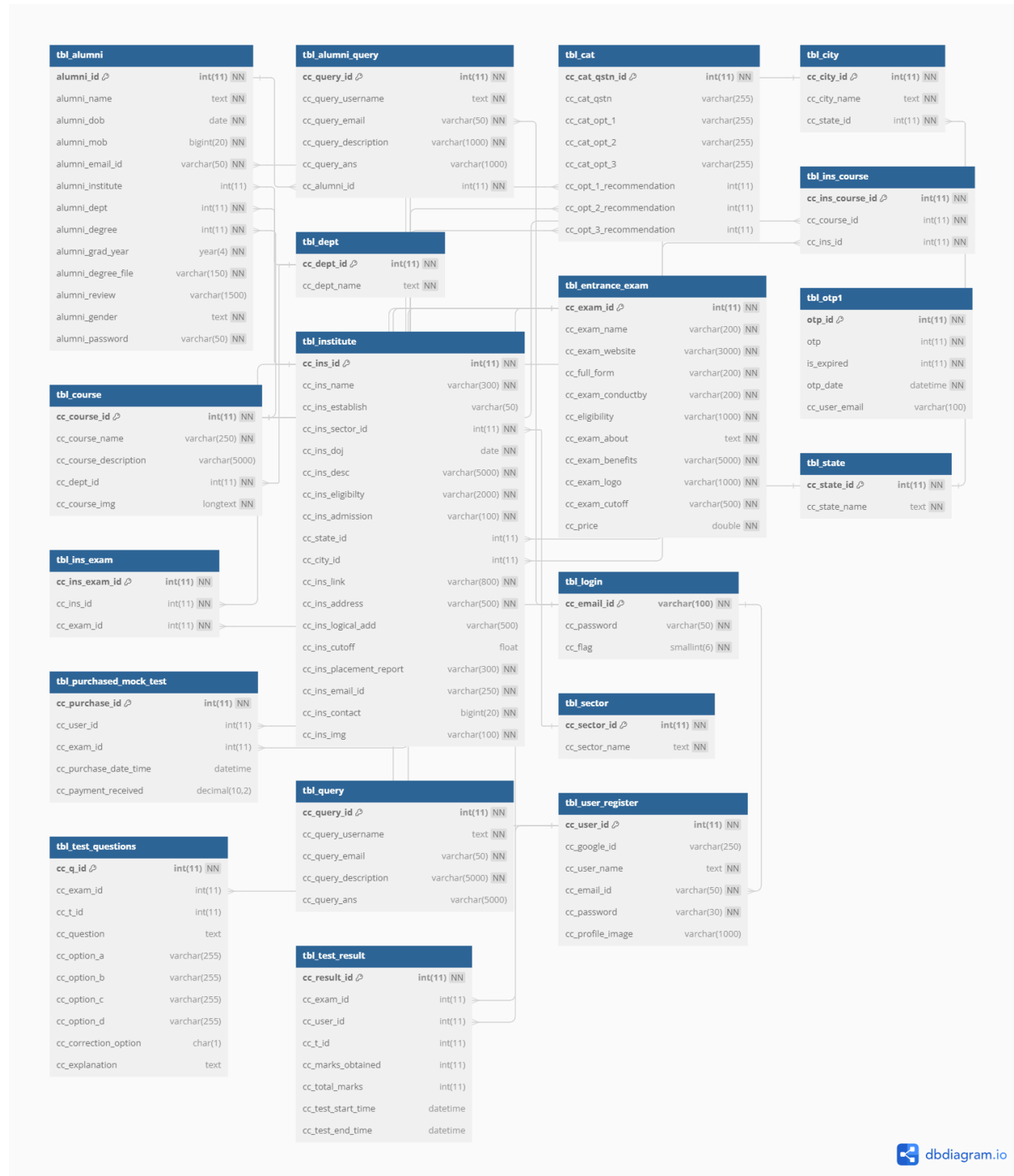
Student Panel								
Condition	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5	Rule 6	Rule 7	

View Degree Info	YES	NO	NO	NO	NO	NO	NO	NO
View Institute Info	NO	YES	NO	NO	NO	NO	NO	NO
View Entrance Exam Info	NO	NO	YES	NO	NO	NO	NO	NO
Take CAT	NO	NO	NO	YES	NO	NO	NO	NO
Purchase Mock Test	NO	NO	NO	NO	YES	NO	NO	NO
Take Mock Test	NO	NO	NO	NO	NO	YES	NO	NO
Ask Queries	NO	NO	NO	NO	NO	NO	YES	YES
Query To Alumni	NO	NO	NO	NO	NO	NO	YES	NO
Query To Admin	NO	NO	NO	NO	NO	NO	NO	YES
Action	- Display Degree Info	- Display Institute Info	- Display Entrance Exam Info	- Display CAT Info	- Add Mock Test to Cart	- Start Test	- Make a query	- Make a query
	- Insert Degree Info	- Insert Institute Info	- Insert Entrance Exam Info	- Insert CAT questions Info	- Mock Test - Payment	- Display Question	- Send query to Alumni	- Send Query to Admin
					- Give Mock Test Access	- Store Result		
						- Display Result		

Alumni Panel		
Condition	Rule 1	Rule 2
Manage Review	YES	NO
Manage Queries	NO	YES
Action	- Display Review	- Display Queries
	- Update Review	- Display Number of pending queries
		- Reply queries

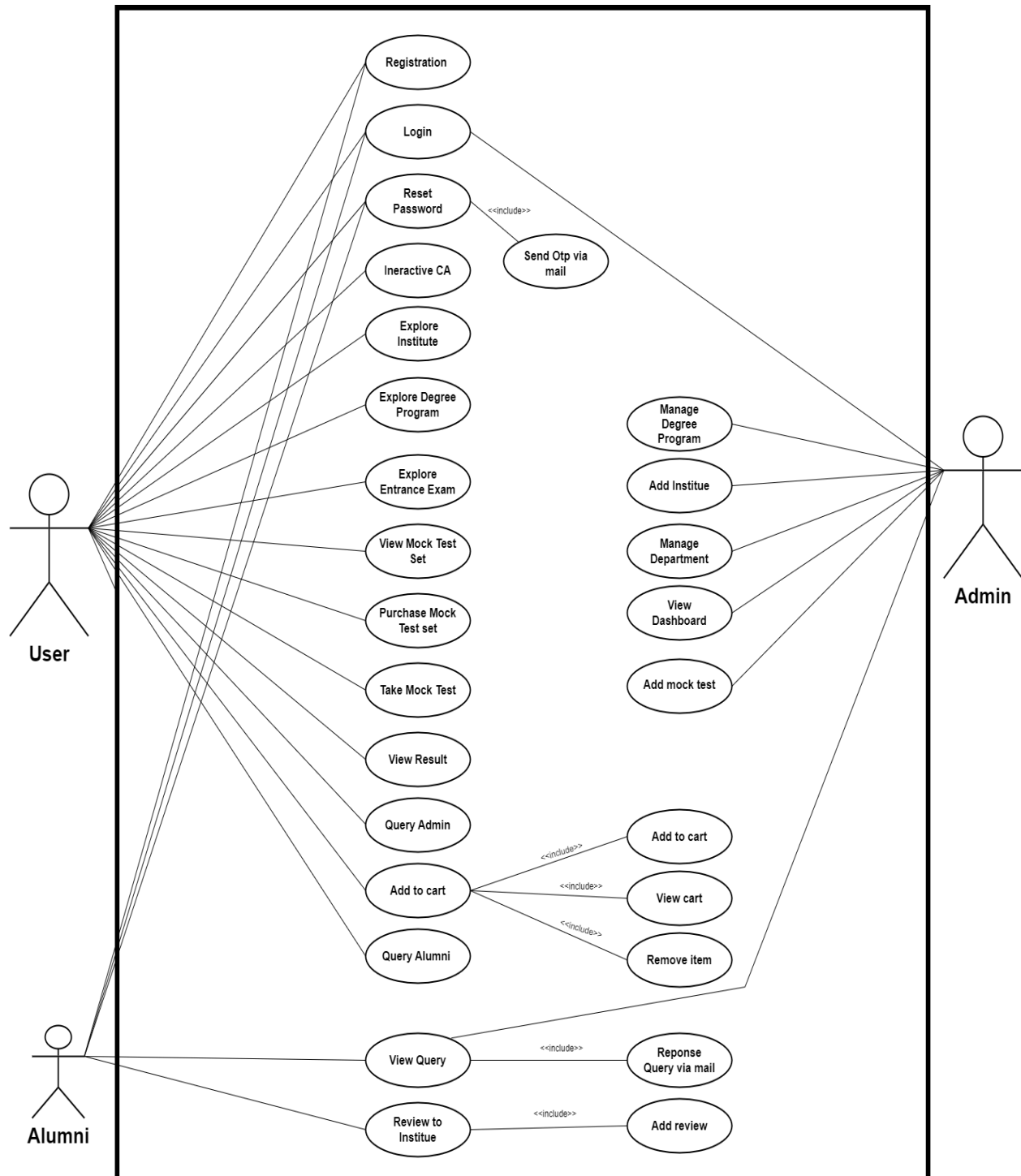
# UML Diagrams

### Class Diagram:



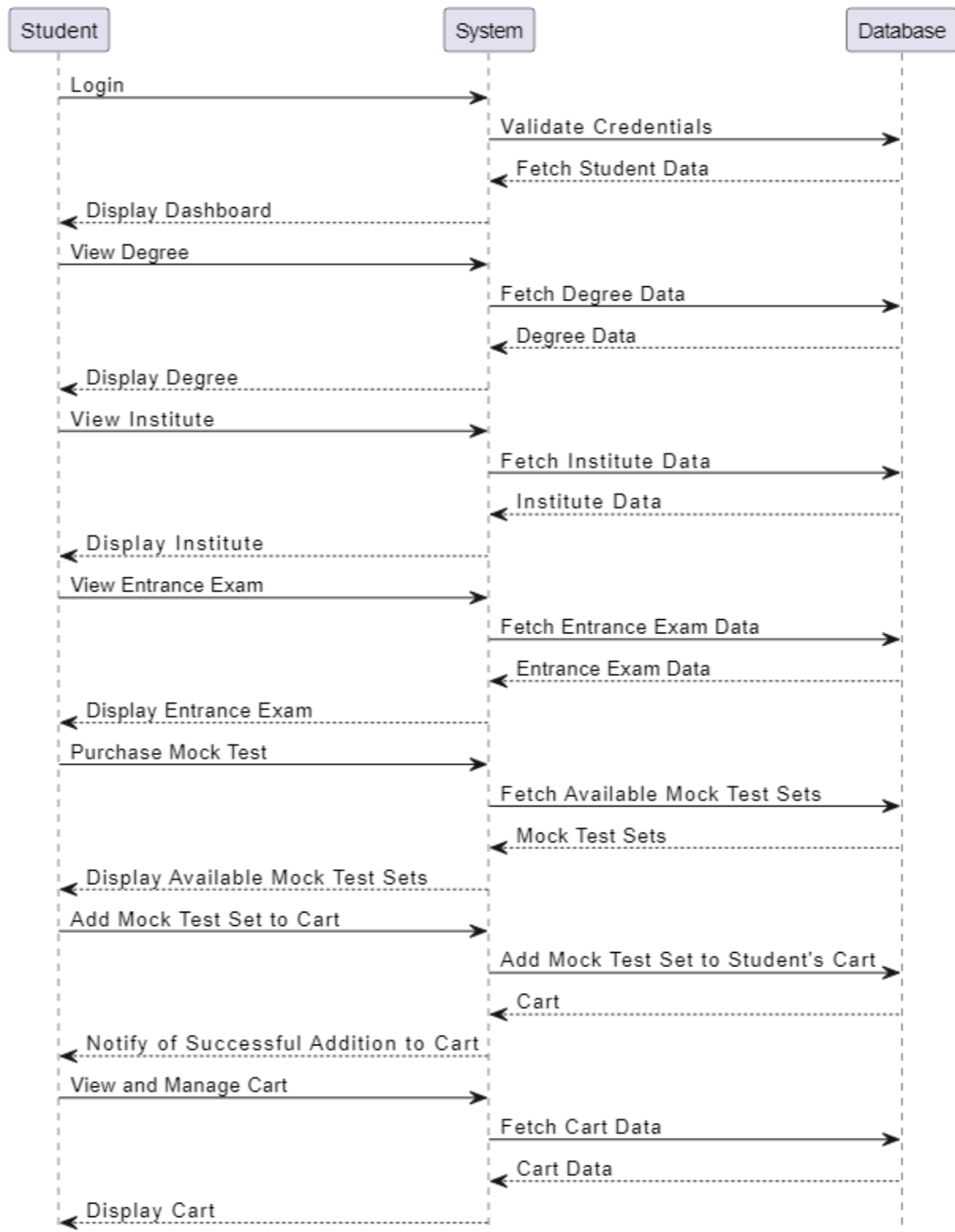


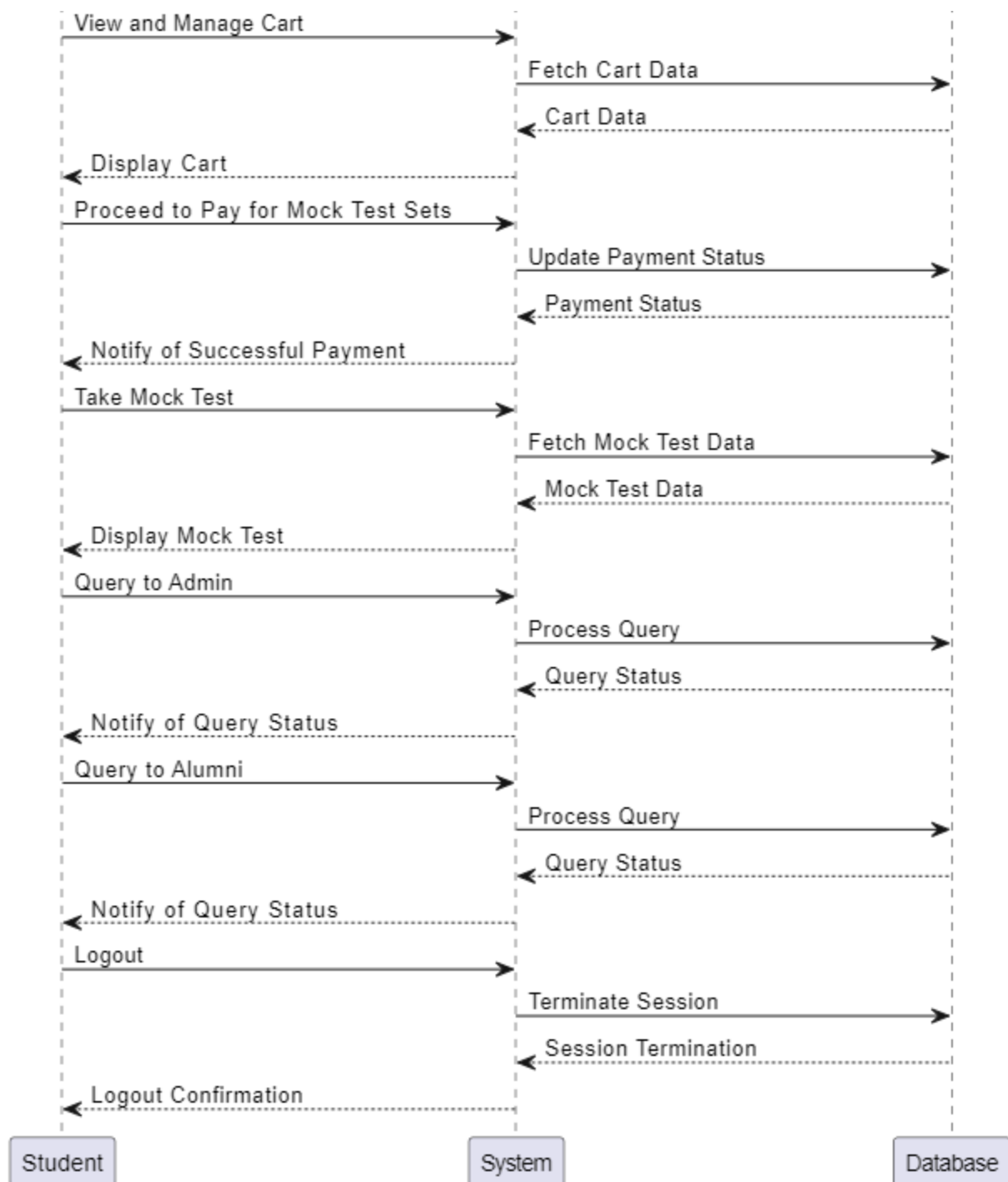
## Use Case Diagram:



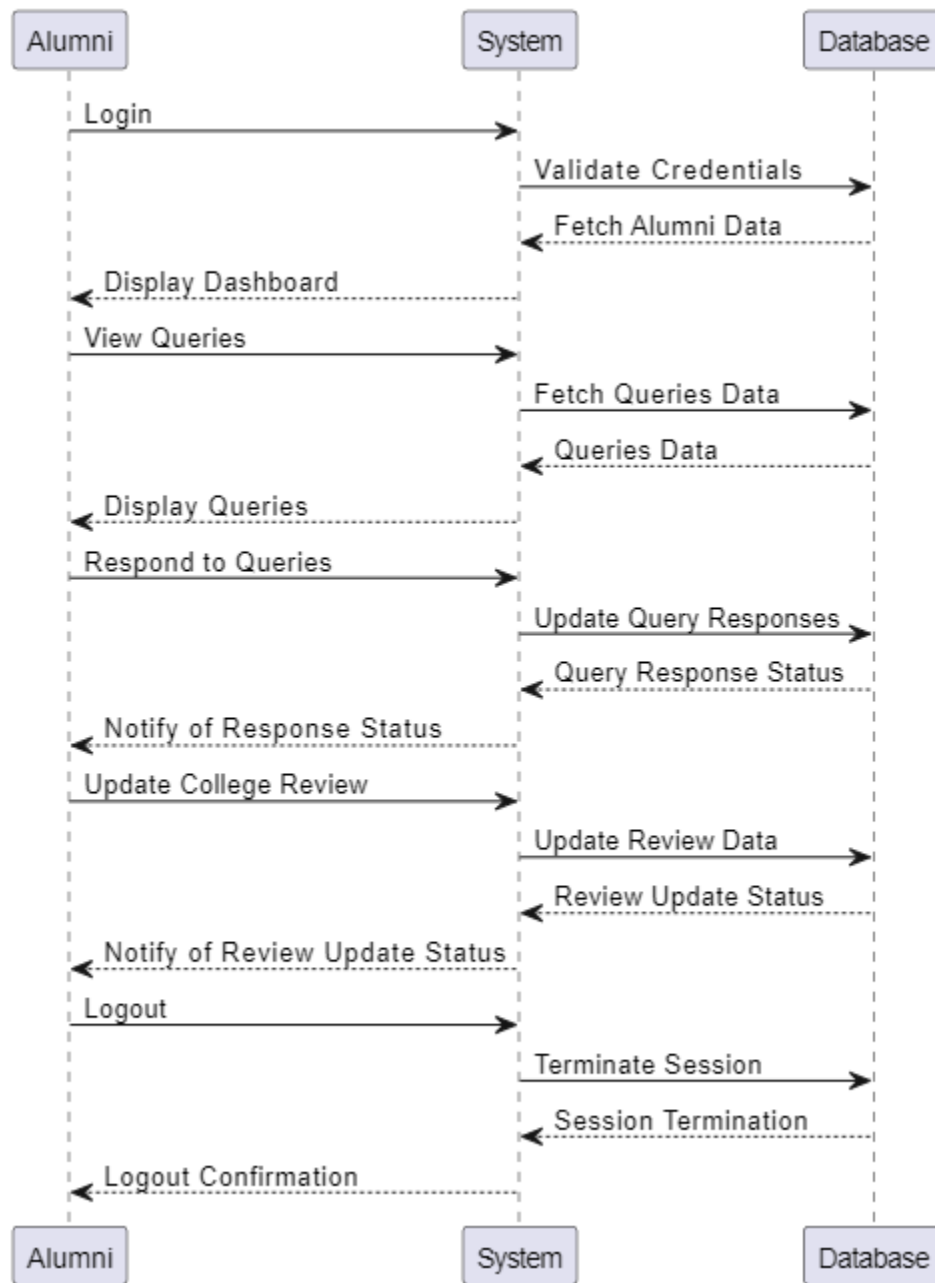
## Sequence Diagram:

User:

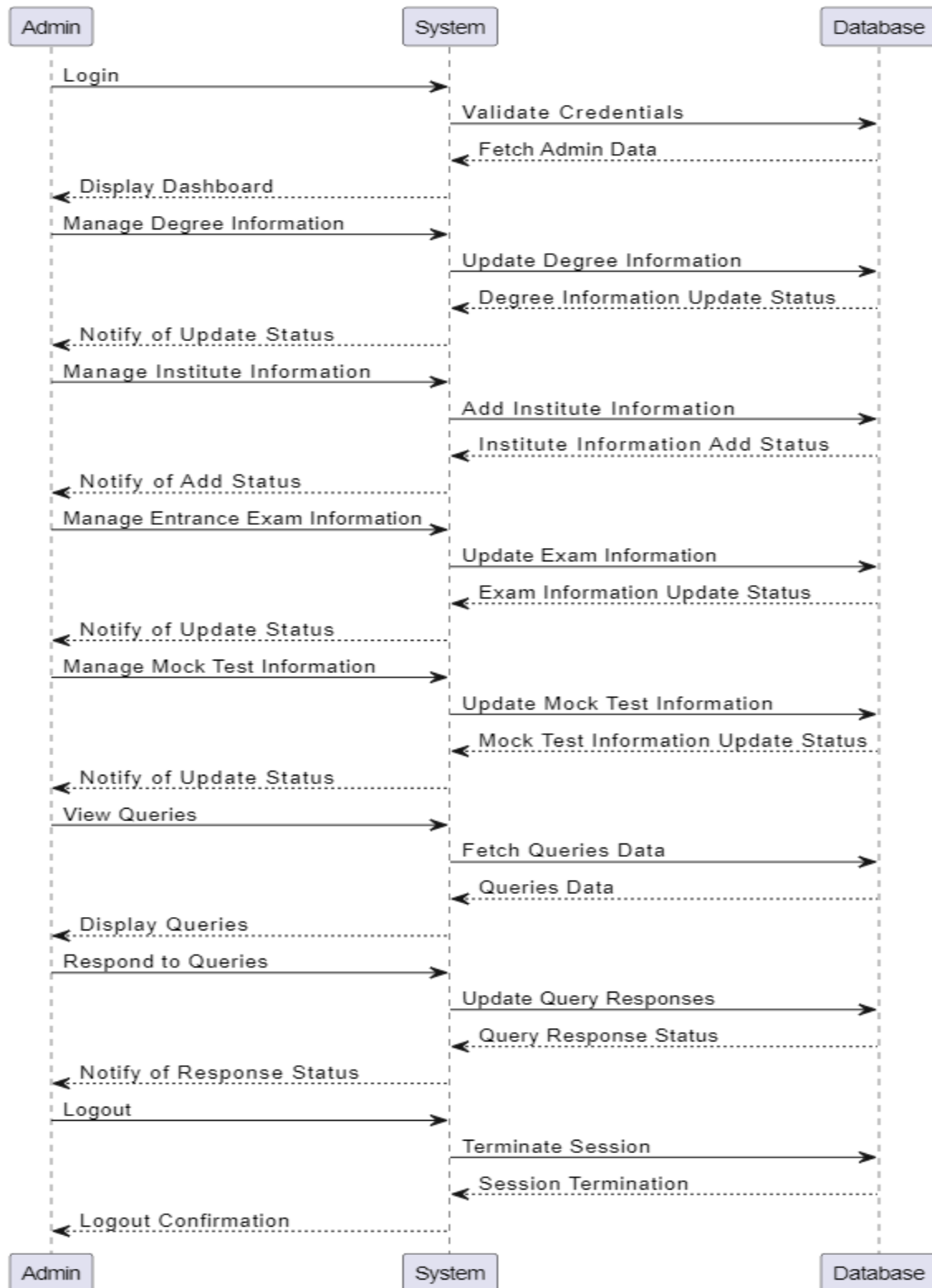




## Alumni:

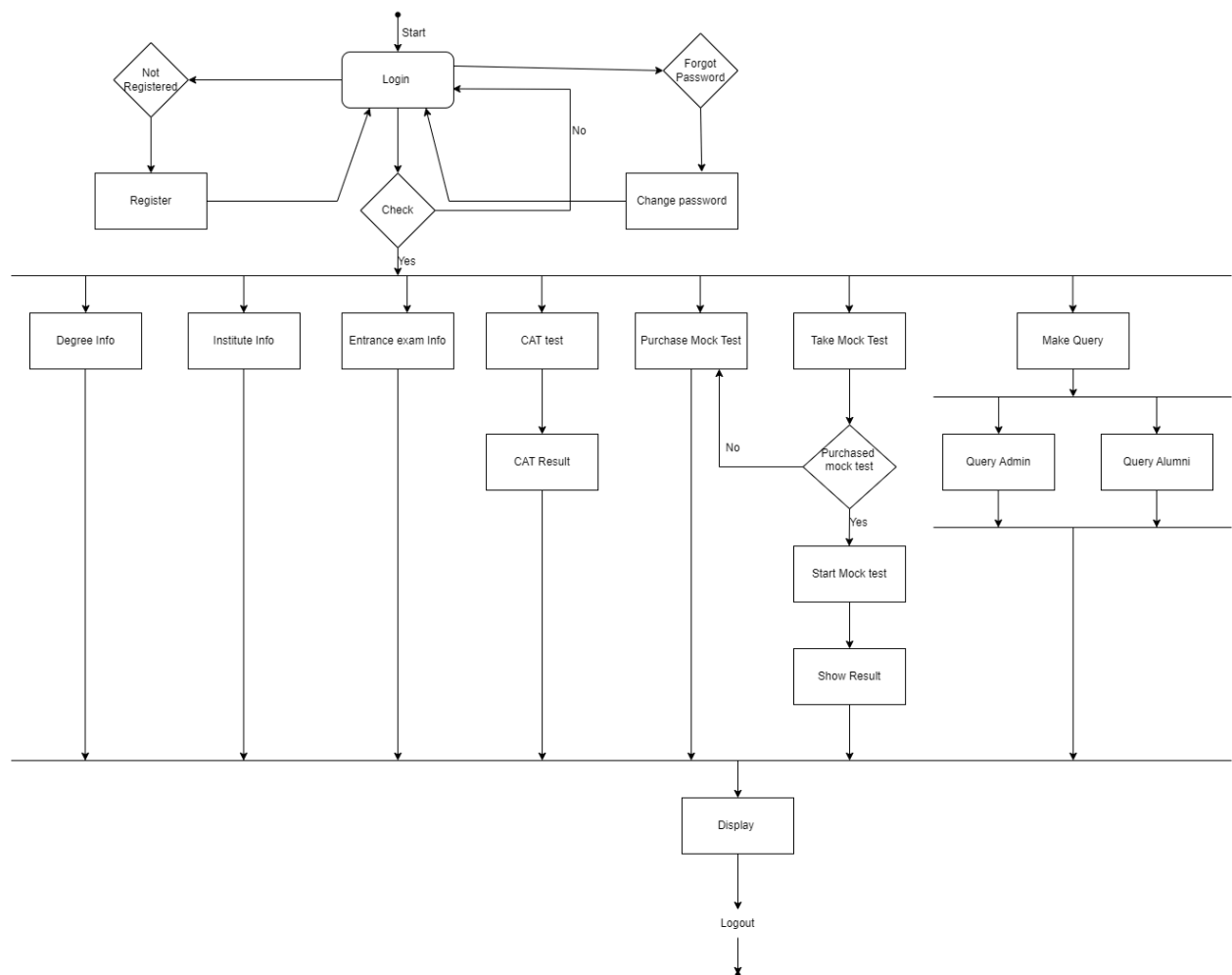


## Admin:

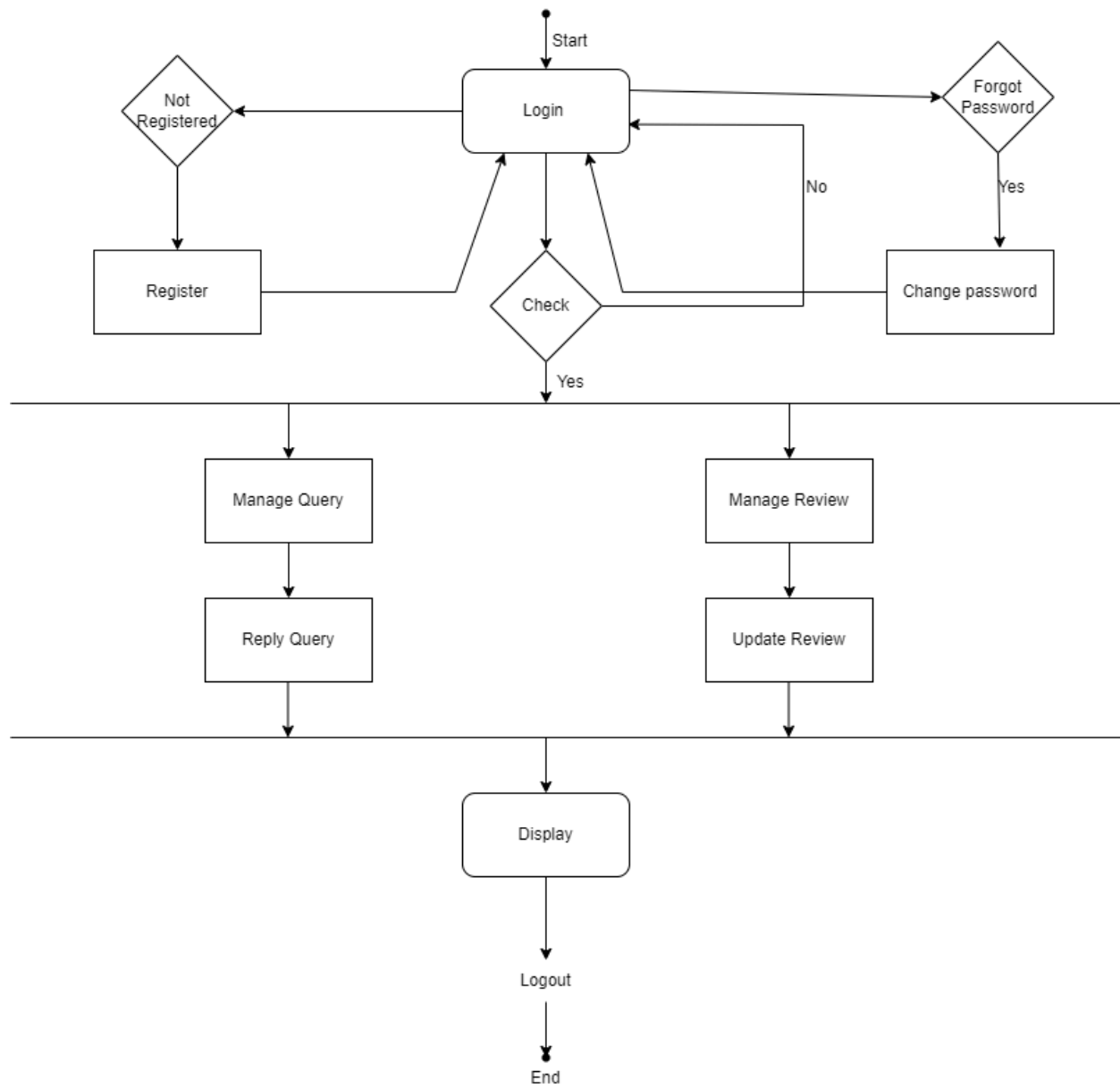


# Activity Diagram:

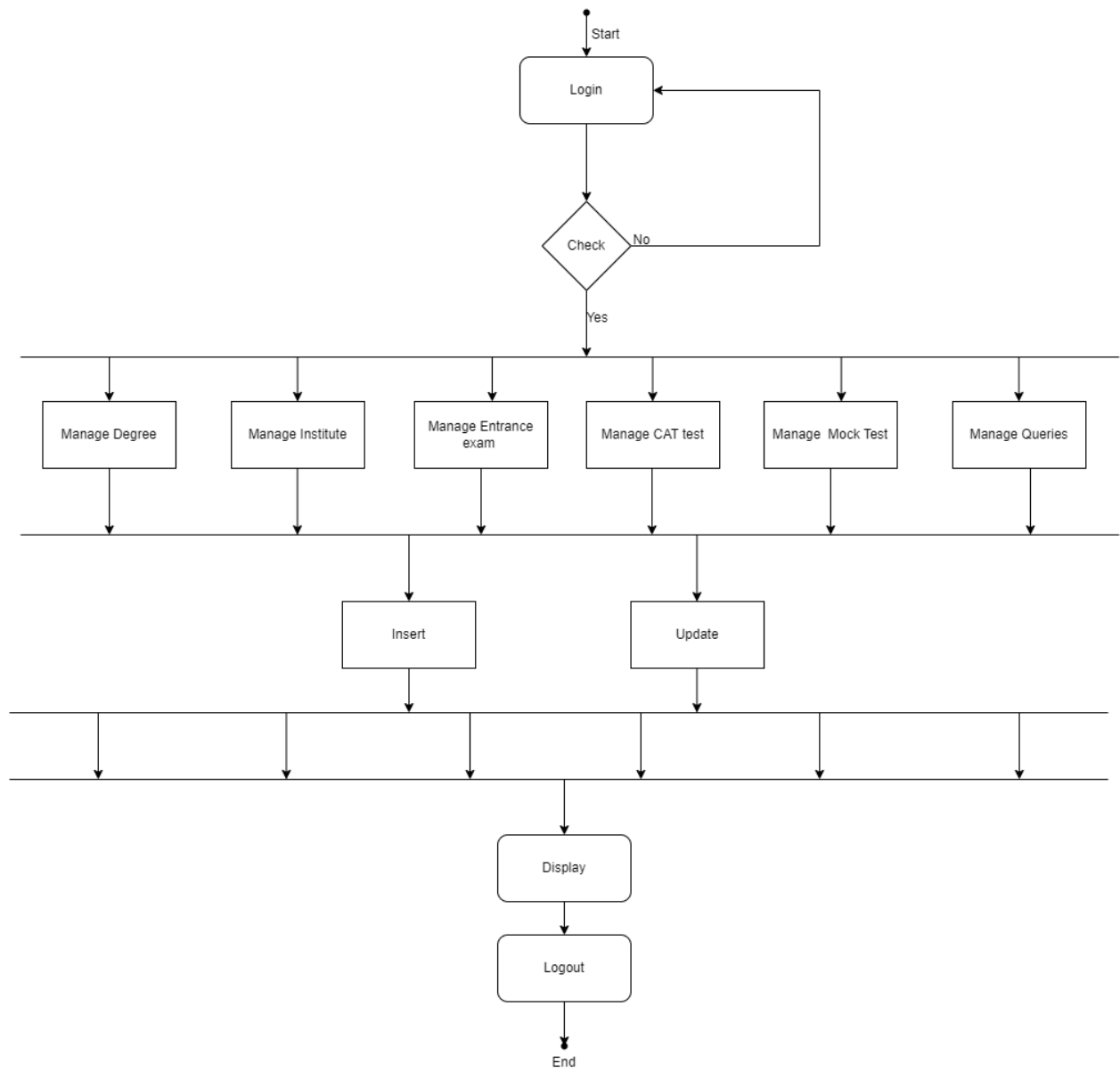
User:



## Alumni:



## Admin:





**ER Diagram:**

