



# EduConnect

An Online Tuition Management Platform

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## Information System Design

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# 1. System Service Request

**REQUESTED BY:** . Ridwan Al Jawad . **DATE:** Aug 26, 2023 .  
**DEPARTMENT:** . Physics Discipline .  
**LOCATION:** . 2<sup>nd</sup> Academic Building, Khulna University .  
**CONTACT:** . 01234567890 .

**TYPES OF REQUEST**

- ☒ New System  
☐ System Enhancement  
☐ System Error Correction

**URGENCY**

- ☒ Immediate  
☐ Problem exists but tolerable

**PROBLEM STATEMENT**

We need to grapple with specific shortcomings that impede its potential to serve as an indispensable bridge between local educators and parents, hindering the delivery of high-quality education to children. These identified issues, if left unattended, pose significant challenges to teachers, students, and parents.

Therefore, a integrated information platform to overcome these challenges.

**SERVICE REQUEST**

Through an analysis of our current operations, I request that a completely new online platform be built to fulfil people's demand.

**IN LIASON:** . Taohiduzzaman Firoz, Phone: 01568379235 .

**SPONSOR:** . NONE .

## 2. Interview

### A. Teacher

Interviewee:	Interviewer:
: <i>Ridwan Al Jawad (Student, Physics Discipline, Khulna University, Khulna)</i>	: <i>Jannatul Ferdous Shova</i> : <i>Abrar Jahin</i> : <i>Hasibul Hasan</i>
Location/Medium:	Date:
Tapan Da Tea Stall, Khulna University	28/07/2023
Objectives:	Reminder:
: This interview is to collect the opinion about the new online platform 'Edu Connect' from the teacher  : To be able to get a good overview on the project requirements	
Questions:	
<p><i>Question: 1</i></p> <p>: How do you currently market your teaching services and connect with students or parents? What challenges do you face in this process?</p>	<p><i>Answer</i></p> <p>: Currently, I rely on word-of-mouth referrals and occasionally post advertisements online to market my teaching services. Finding students can be competitive, especially for specific subjects.</p> <p><i>Observations</i></p> <p>: Educators rely on traditional and online methods to promote their services. The competitive nature of finding students underlines the potential benefits of a dedicated platform like EduConnect for expanding their reach.</p>
<p><i>Question: 2</i></p> <p>: Can you see the benefits of having a dedicated platform like EduConnect to showcase your expertise and connect with potential students? What features would be most valuable to you?</p>	<p><i>Answer</i></p> <p>: An app like EduConnect could be a game-changer for educators like me. It would provide a dedicated platform to showcase my qualifications, teaching style, and availability. This exposure to potential students and parents would definitely help me reach a wider audience.</p> <p><i>Observations</i></p> <p>: Educators recognize the transformative potential of EduConnect, envisioning it as a platform to effectively showcase their strengths and connect with students. Their interest highlights the value of visibility and accessibility.</p>

<p><i>Question: 3</i></p> <p>: What will you like to see as some features?</p>	<p><i>Answer</i></p> <p>: The ability to manage my own schedule and adjust class timings would be extremely helpful. Sometimes, unforeseen circumstances arise, and being able to modify class schedules within reason would allow me to accommodate changes effectively.</p> <p><i>Observations</i></p> <p>: Educators emphasize the importance of schedule flexibility due to the dynamic nature of their work. This resonates with the need for tools that enable efficient adjustment to changing circumstances.</p>
<p><i>Question: 4</i></p> <p>: Would you like to take online classes?</p>	<p><i>Answer</i></p> <p>: The choice between remote and in-person classes is intriguing. It would depend on the subject and the student's needs. I can see remote classes being suitable for certain subjects while in-person sessions might offer a better hands-on experience for others</p> <p><i>Observations</i></p> <p>: Educators recognize the significance of offering both remote and in-person classes based on subject requirements and student preferences. This flexibility aligns with catering to diverse learning needs.</p>
<p><b>General Observations:</b></p>	
<p>Teachers on the EduConnect platform exhibit a strong commitment to professionalism and education. They create comprehensive profiles, highlighting their qualifications and teaching expertise, fostering trust among parents and students. Their diverse range of subject expertise and flexible scheduling options cater to a variety of learning needs, while their effective use of the messaging system and resource sharing enhances the overall educational experience. Teachers also show a proactive approach to feedback, responding constructively to reviews and ratings, emphasizing continuous improvement in their teaching methods and interactions with students.</p>	

## B. Student

Interviewee:	Interviewer:
: <i>Tajim Ahamed (Student, Khulna Public College, Khulna)</i>	: <i>Jannatul Ferdous Shova</i> : <i>Abrar Jahin</i> : <i>Hasibul Hasan</i>
Location/Medium:	Date:
PTI More, Khulna	29/07/2023
Objectives:	Reminder:
: This interview is to collect the opinion about the new online platform 'Edu Connect' from the students  : To be able to get a good overview on the project requirements	
Questions:	
<p><i>Question: 1</i></p> <p>: As a student, how do you usually find tutors or additional help for your studies? What methods have you used in the past?</p>	<p><i>Answer</i></p> <p>: As a student, I typically rely on recommendations from teachers or classmates when looking for tutors or extra help. Sometimes, I search online platforms for tutors specializing in the subjects I need assistance with.</p> <p><i>Observations</i></p> <p>: Students often seek recommendations from trusted sources and explore online platforms to find suitable tutors. This highlights the importance of trustworthy referrals and easily accessible resources.</p>
<p><i>Question: 2</i></p> <p>: Can you imagine using an app like EduConnect to connect with teachers or tutors? What features would you find most useful from a student's perspective?</p>	<p><i>Answer</i></p> <p>: Yes, I can see the value in an app like EduConnect. It would be great to have a platform where I can search for tutors based on subjects and see their qualifications and teaching style. The ability to directly message tutors and access study resources would be really useful.</p> <p><i>Observations</i></p> <p>: Students recognize the potential benefits of using an app like EduConnect, particularly the ability to access comprehensive tutor information and resources. The desire for direct communication with tutors aligns with efficient learning support.</p>

<p><i>Question: 3</i></p> <p>: How important is it for you to have a clear understanding of a tutor's expertise and qualifications before deciding to get assistance from them?</p>	<p><i>Answer</i></p> <p>: Having a clear understanding of a tutor's expertise is crucial. I want to make sure that the tutor is knowledgeable in the subject and can effectively help me with my studies.</p> <p><i>Observations</i></p> <p>: Students emphasize the importance of tutor qualifications, reflecting their desire for effective learning support. A tutor's expertise directly impacts their decision-making process.</p>
<p><i>Question: 4</i></p> <p>: If you had the choice, would you prefer in-person tutoring sessions or online lessons through an app? What factors would influence your preference?</p>	<p><i>Answer</i></p> <p>: My preference would depend on the subject and my learning style. For some subjects, like math, I might prefer in-person sessions for more interactive learning. But for other subjects, online lessons could be convenient, allowing me to learn from the comfort of my home.</p> <p><i>Observations</i></p> <p>: How would having the ability to access study resources and communicate directly with tutors through an app impact your learning experience?</p>
<p><i>Question: 5</i></p> <p>: How would having the ability to access study resources and communicate directly with tutors through an app impact your learning experience?</p>	<p><i>Answer</i></p> <p>: It would be really helpful. Access to study resources like notes, practice problems, and additional materials would complement my learning. Being able to message tutors would allow me to clarify doubts and get guidance outside of tutoring sessions.</p> <p><i>Observations</i></p> <p>: Students view direct communication with tutors and access to study resources as valuable tools for enhancing their learning journey. These features align with their need for personalized and accessible learning support.</p>

**General Observations:**

Students engaging with the EduConnect platform demonstrate a proactive attitude towards their education. They actively search for teachers or tutors, emphasizing the importance of finding the right match for their learning needs. The effective utilization of teaching materials and resources shared by teachers and tutors enriches their learning journey. Students actively participate in the review and rating system, sharing valuable insights about their educational experiences, and they rely on notifications and reminders for organized and prepared lessons. Overall, students on EduConnect are engaged and committed learners, making the most of the platform's resources to enhance their education.



### 3. Statement Of Works (SOW)

#### A. Project Scope Statement

<b>EduConnect</b> <b>Project Scope Statement</b>		Prepared by: Hasibul Hasan Date: August 12, 2023
<b>General Project Information</b> <b>Project Name:</b> EduConnect <b>Sponsor:</b> None <b>Project Manager:</b> Abrar Jahin		
<b>Problem/Opportunity Statement:</b> EduConnect, will be serving as a valuable platform connecting local teachers and tutors with parents, which will solve challenges that hinder its optimal functionality. Addressing these challenges presents an opportunity to significantly improve the overall user experience for teachers, students, and parents, fostering a more dynamic and collaborative learning environment.		
<b>Project Objectives:</b> The primary objective of this project is to enhance the EduConnect app, addressing identified issues to provide teachers with improved flexibility and schedule management tools. By doing so, the project aims to create a more intuitive, user-friendly, and adaptable platform that meets the diverse needs of educators, students, and parents.		
<b>Project Description:</b> The EduConnect App Enhancement project is centered on elevating the functionality of the platform to overcome identified challenges. The primary goal is to enhance flexibility and schedule management for teachers, fostering a more responsive and user-friendly learning ecosystem. This initiative encompasses the integration of features such as host location selection, a revamped schedule management interface, streamlined class cancellation and rescheduling processes, an improved communication system, and an intuitive user interface with administrative refinements. By undertaking this project, EduConnect aspires to deliver an upgraded app that not only meets the diverse needs of teachers, students, and parents but also strengthens the collaborative learning experience, ensuring a seamless and adaptive educational journey for all users.		
<b>Project Deliverables:</b> EduConnect System Programs User Documentation		
<b>Estimated Project Duration:</b> 2 months		

## **B. Project Features:**

### **1.User Registration and Profiles:**

Parents, teachers, and tutors can register and create detailed profiles, including qualifications, subjects taught, availability, and teaching experience.

### **2.Search and Filters:**

Parents can search for local teachers and tutors based on subjects, grade levels, location, and availability. The app provides filtering options to refine search results.

### **3.Teacher/Tutor Profiles:**

Comprehensive profiles showcasing expertise, teaching approach, resources, and certifications.

### **4.Booking and Scheduling:**

Parents can view teachers' or tutors' availability and book sessions based on preferred time slots. A scheduling system manages appointments and sends reminders.

### **5.Communication and Messaging:**

In-app messaging system for parents and teachers/tutors to discuss lesson plans, progress updates, and specific requirements.

### **6.In-App Lessons and Resources:**

Teachers/tutors can share teaching materials, resources, and lesson plans with parents and students, supporting multimedia content.

### **7.Reviews and Ratings:**

Parents can rate and review teachers/tutors, ensuring transparency and quality control.

### **8.Payment Integration:**

Secure payment gateway for parents to pay for lessons or tutoring services, supporting various payment methods.

### **9.Notifications and Reminders:**

Automated notifications and reminders for upcoming lessons, schedule changes, and important updates.

### **10.Data Privacy and Security:**

Prioritizes data privacy, implementing security measures to protect users' personal information and complying with data protection regulations.

### **Additional Requirement: Teacher Flexibility and Schedule Management**

### **11.Host Location Selection:**

Teachers can choose to conduct classes remotely through the app's virtual classroom or travel to the student's house for in-person sessions.

### **12.Schedule Modification:**

Teachers can modify the date, time, or duration of classes to accommodate changes in

availability or the student's schedule.

### 13.Class Cancellation:

Teachers can cancel a class if necessary, notifying the student and rescheduling the session efficiently.

### 14.Class Rescheduling:

Teachers can propose new time slots for rescheduled classes, facilitating easy agreement with the student.

### 15.Class Time Adjustment:

Teachers have flexibility to adjust the start and end times of classes within reasonable limits.

By incorporating these features, EduConnect aims to provide a comprehensive and flexible platform for connecting educators and parents while ensuring a secure and enriching learning experience for students.

## User Stories:

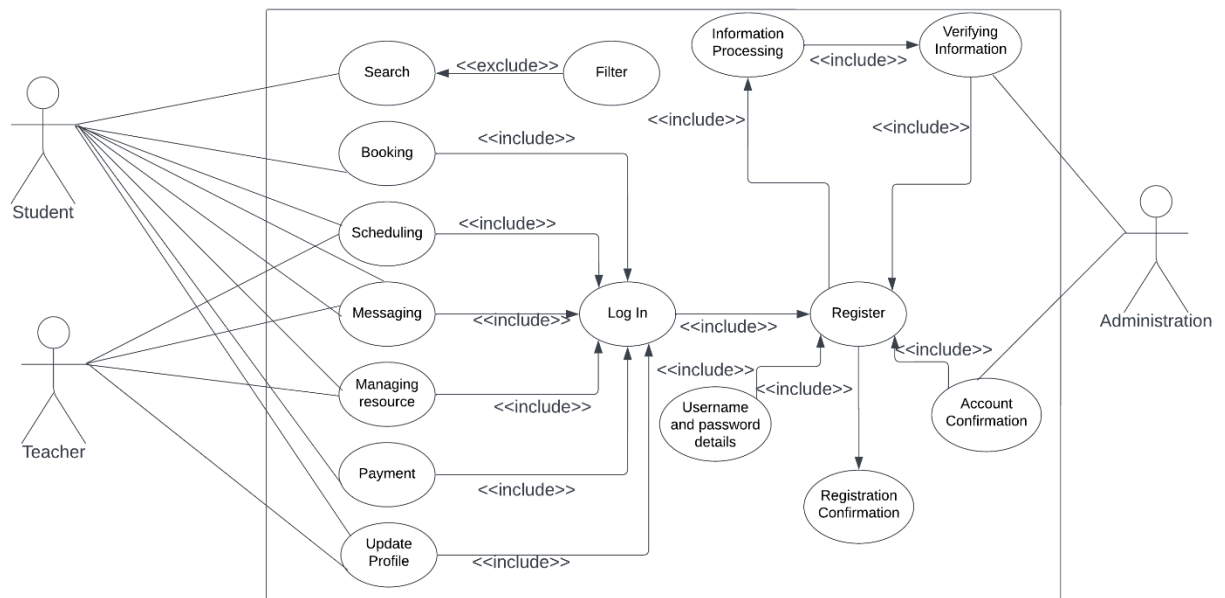
Front Page	Back Page
<p><b>Story Identifier:</b> EDUC001</p> <p><b>Story Name:</b> Student to Teacher Communication</p> <p><b>Title:</b> Elevating Personalized Learning Through EduConnect</p> <p><b>As a:</b> Motivated and curious student</p> <p><b>I want:</b> A platform that seamlessly connects me with qualified tutors and resources</p> <p><b>So that:</b> I can enhance my understanding and excel in my academic pursuits.</p>	<p><b>Acceptance Criteria:</b></p> <ul style="list-style-type: none"> <li>○ How does the application showcase tutors' profiles, and what specific details are highlighted regarding their expertise, teaching styles, and credentials?</li> <li>○ Could you elaborate on the user-friendly search feature? How does it work, and what criteria can be used to find tutors based on specific subjects?</li> <li>○ In what ways does the platform offer convenience in booking and managing tutoring sessions according to your schedule? Are there any specific features that enhance this process?</li> <li>○ How do the timely notifications and reminders contribute to staying organized and well-prepared for lessons? Can you provide examples of the types of notifications you receive?</li> <li>○ How does the in-app messaging system facilitate direct communication with tutors? Are there any additional features that enhance the communication experience?</li> <li>○ Can you describe the variety and accessibility of study resources available on the platform? How do these resources</li> </ul>

	<p>contribute to enriching your learning experience?</p> <ul style="list-style-type: none"> <li>○ How does the feedback system, including ratings and reviews, contribute to creating a constructive learning community on the platform? In what ways does it impact your decision-making process when selecting tutors?</li> <li>○</li> </ul> <p><b>Business Value:</b> Enabling students to harness their full potential by connecting them with proficient tutors and empowering</p>
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Front Page	Bake page
<p><b>Story Identifier:</b> EDUC002</p> <p><b>Story Name:</b> Teacher to student Communication</p> <p><b>Title:</b> Enhancing Tutoring Opportunities and Engagement</p> <p><b>As a:</b> Dedicated and qualified educator</p> <p><b>I want:</b> An efficient platform to connect with potential students and provide effective tutoring services</p> <p><b>So that:</b> I can utilize my expertise to facilitate meaningful learning experiences and contribute positively to students' academic growth.</p>	<p><b>Acceptance Criteria:</b></p> <ul style="list-style-type: none"> <li>• How does the application allow you to create a comprehensive profile, and what specific information can you showcase regarding your qualifications, teaching philosophy, and areas of expertise?</li> <li>• Can you elaborate on the intuitive search function? How does it enable prospective students and parents to find and evaluate your profile based on subjects and specialties?</li> <li>• What schedule management tools does the platform offer for tutors, and how do they assist you in setting availability and modifying class timings as needed?</li> <li>• How does the streamlined notification system work to keep you informed about upcoming lessons and real-time changes? Can you provide examples of the types of notifications you receive?</li> <li>• In what ways does the messaging system on the platform facilitate seamless communication with students or parents? Are there any specific features that enhance the coordination of lesson plans and addressing queries?</li> <li>• How does the platform present authentic reviews and ratings? In what manner does this feedback contribute to your continuous improvement as a tutor?</li> </ul>

**Business Value:** Empowering educators with an efficient and user-centric platform to connect with students, making the tutoring experience more accessible and impactful.

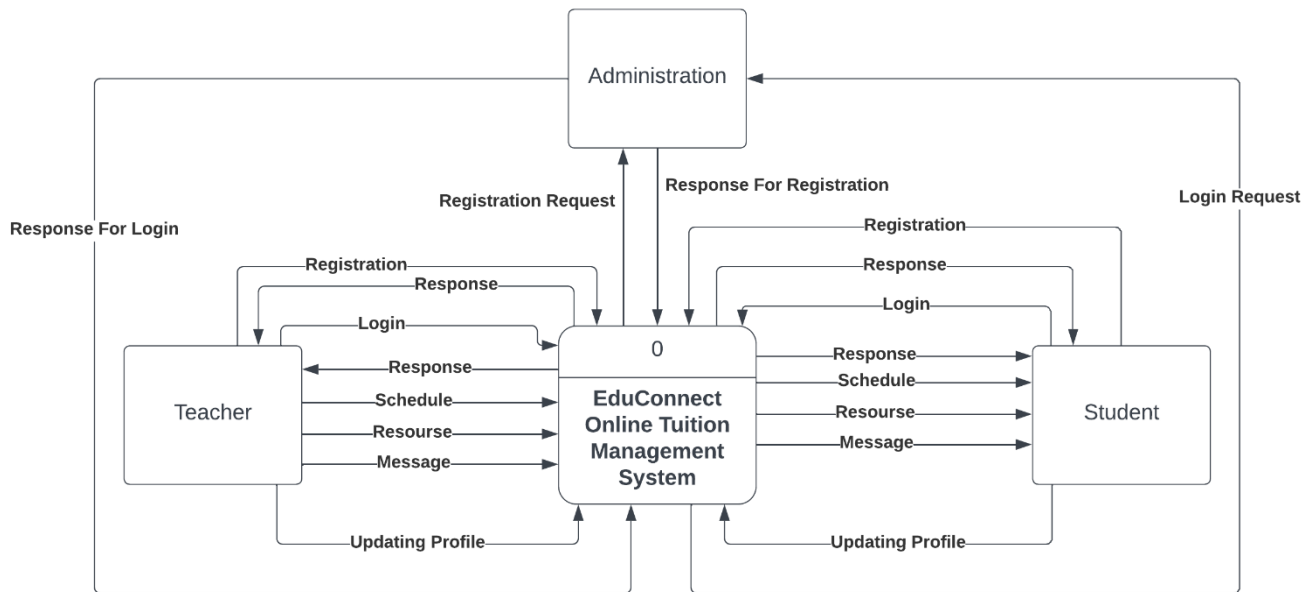
### C. Use Case Diagram:



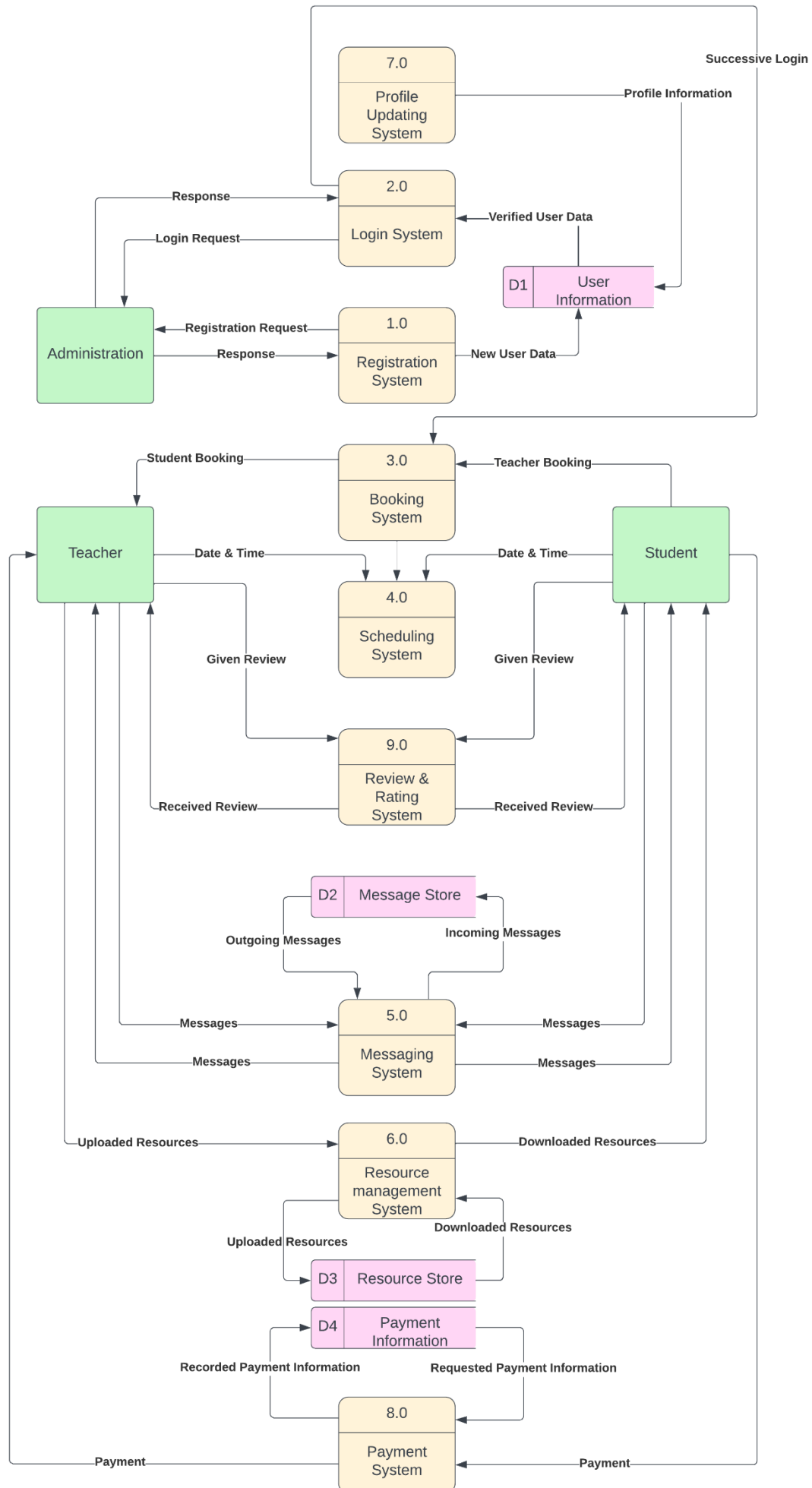
Use-case diagram

## D. Data Flow Diagram

Context DFD:



Context DFD

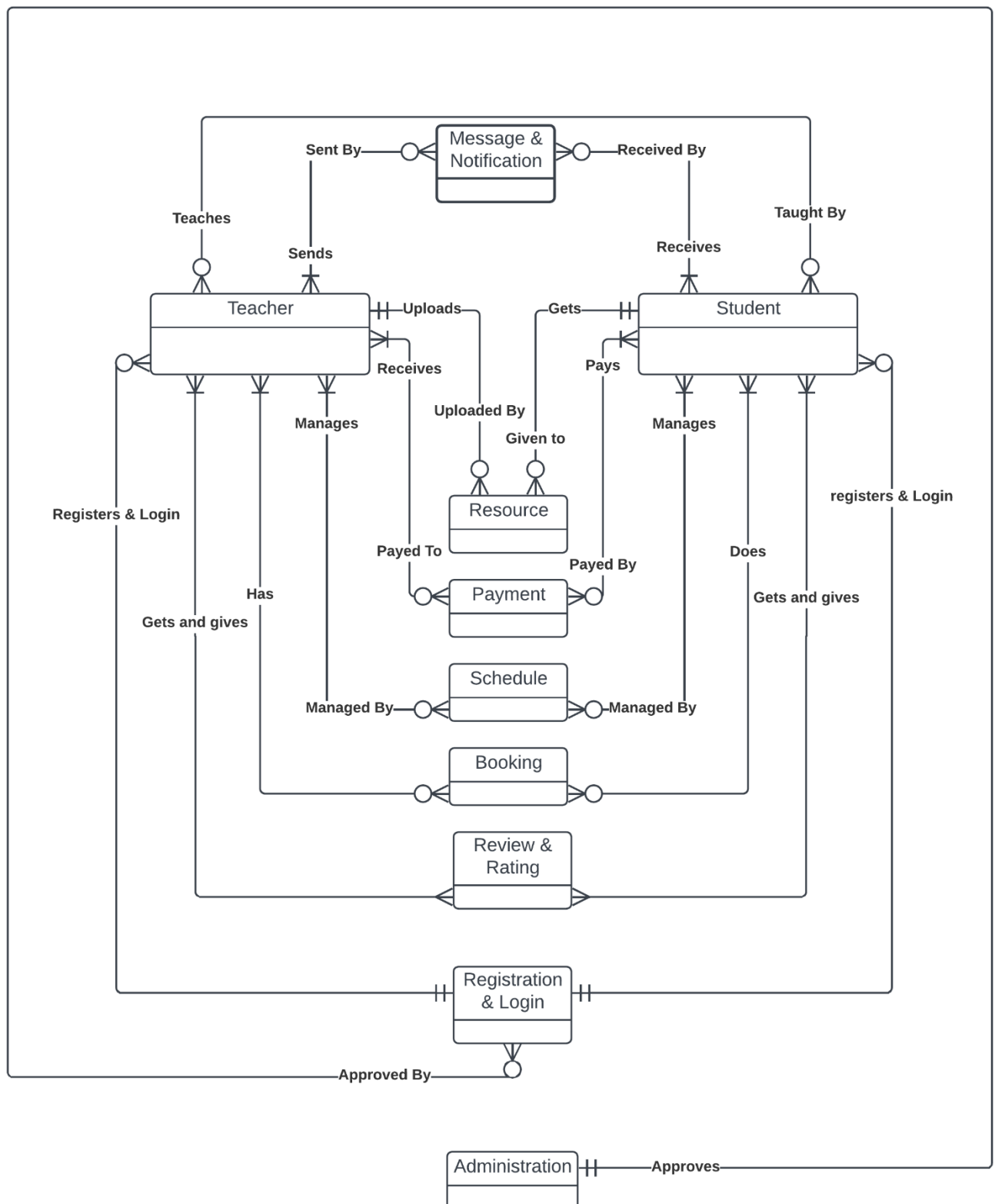


**\*\*Process Description Of DFD:**

<b>Registration System</b>	Both teacher and student register by giving necessary information.
<b>Login System</b>	Both teacher and student login by giving user credentials.
<b>Booking System</b>	Students book their teacher according to their preferences.
<b>Scheduling System</b>	Both teacher and student fix their schedule according to their preferences.
<b>Messaging System</b>	Teacher and Student can send messages to each other.
<b>Resource Management System</b>	Teacher uploads their resources which will be stored and student will get the resources from there.
<b>Profile Updating System</b>	Both teacher and student can update their profile through this system.
<b>Payment System</b>	Student will pay and teacher will receive payment through this system.
<b>Review and Rating System</b>	Teacher and student can give ratings and review to each other.



## E. Entity Relationship Diagram:



Entity Relationship Diagram

## \*\*Data Description Of ER-Diagram:

- Teacher can be connected to no student or multiple students and student also can be connected with no teacher or multiple teachers.
- Teacher can upload no resource or multiple resources and student can download no resource or multiple resources.
- A student can pay to multiple teachers or no teacher and a teacher can receive payment from one student or multiple students.
- Teacher can schedule multiple classes or no class and a student also can schedule multiple classes or no class.
- A teacher can have no booking or multiple booking again a student can also book no teacher or multiple teachers.
- A student can send message to multiple teachers or no teacher, also a teacher can message no student or multiple students.
- Both teacher and student can give/get rating to/from none or multiple.
- Every teacher and student will have only one registration and login

## F. User Interfaces:

### Narrative Overview

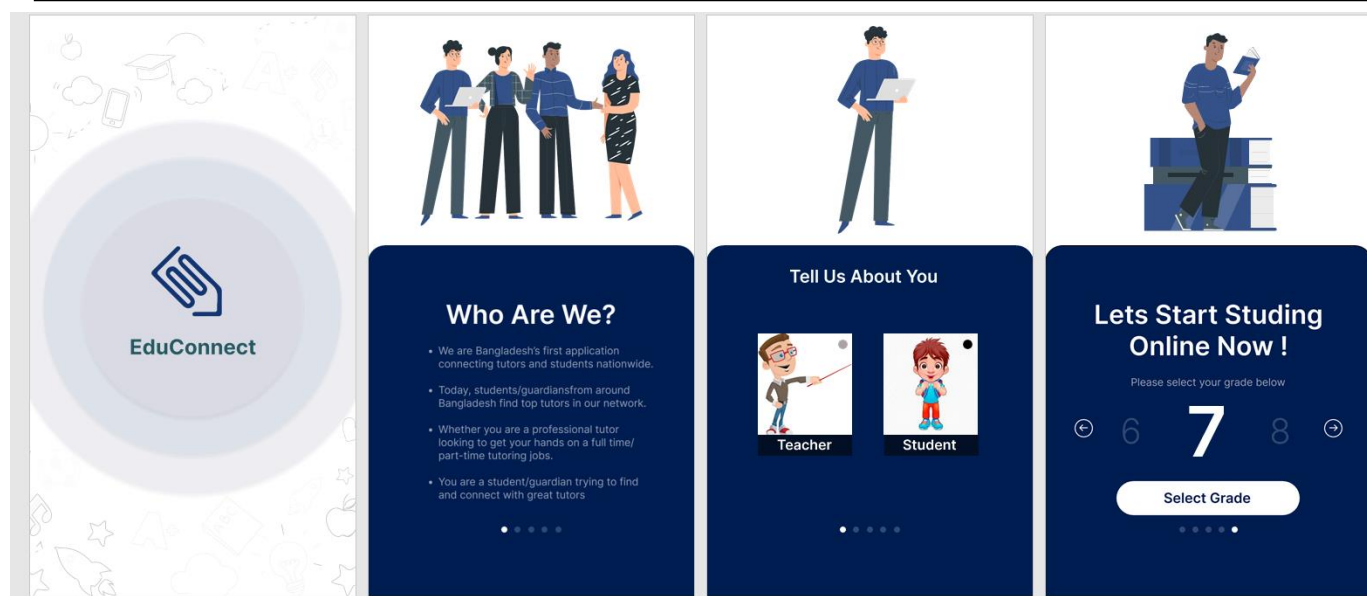
**Report:** Introduction to the app.

**Users:** Students & Teachers

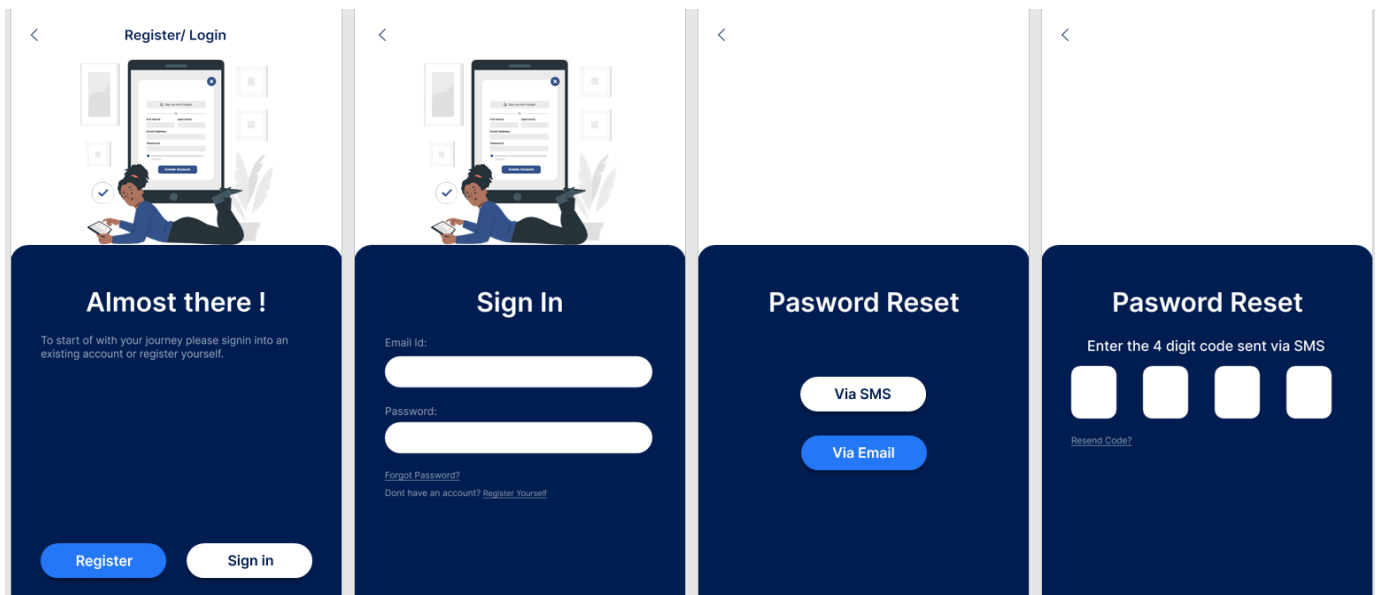
**Tasks:** Give an overview to the app.

**System:** Any browser with internet access

**Environment:** Standard report format



<p>Narrative Overview</p> <p><b>Report:</b> Introduction to the app.</p> <p><b>Users:</b> Students &amp; Teachers</p> <p><b>Tasks:</b> Give an overview to the app.</p> <p><b>System:</b> Any browser with internet access</p> <p><b>Environment:</b> Standard report format</p>	<p>Narrative Overview</p> <p><b>Form:</b> Sign In.</p> <p><b>Users:</b> Students &amp; Teachers</p> <p><b>Tasks:</b> Login to the app.</p> <p><b>System:</b> Any browser with internet access</p> <p><b>Environment:</b> Standard form format</p>	<p>Narrative Overview</p> <p><b>Report:</b> Password Reset</p> <p><b>Users:</b> Students &amp; Teachers</p> <p><b>Tasks:</b> Resets the password</p> <p><b>System:</b> Any browser with internet access</p> <p><b>Environment:</b> Standard report format</p>	<p>Narrative Overview</p> <p><b>Form:</b> Password Reset</p> <p><b>Users:</b> Students &amp; Teachers</p> <p><b>Tasks:</b> OTP Verification</p> <p><b>System:</b> Any browser with internet access</p> <p><b>Environment:</b> Standard form format</p>
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## Narrative Overview

**Form:** Password reset.**Users:** Students & Teachers**Tasks:** Sets new password**System:** Any browser with internet access**Environment:** Standard form format.

## Narrative Overview

**Form:** Registration for students**Users:** Students**Tasks:** Takes necessary information for registration.**System:** Any browser with internet access**Environment:** Standard form format

## Narrative Overview

**Form:** Registration for students**Users:** Students**Tasks:** Takes necessary information for registration.**System:** Any browser with internet access**Environment:** Standard form format

## Narrative Overview

**Form:** Details Adding**Users:** Students**Tasks:** Takes information for registration.**System:** Any browser with internet access**Environment:** Standard form format

The image displays four mobile application screens for a student registration system. The first screen, titled 'Password Reset', features a dark blue header with a back arrow, followed by a white box containing the title 'Password Reset'. Below this, there are two input fields for 'New Password:' and 'Confirm Password:', and a 'Proceed' button at the bottom. The second screen, titled 'Register', has a dark blue header with a back arrow and the title 'Register'. It contains several input fields: 'Name:\*', 'Date of Birth:\*' (with a date picker), 'School:\*', 'Parent/ Guardian Contact No:\*' (with a '+92' prefix), 'Choose Class \*' (a dropdown menu), and 'Choose Subject/s\*' (a dropdown menu). A 'Next' button is at the bottom right. The third screen, also titled 'Register', has a dark blue header with a back arrow and the title 'Register'. It includes input fields for 'Email Id:\*', 'Set Password:\*', and 'Confirm Password:\*'. Below these, there is a note: 'Adding a sibling profile allows you to create a linked profile with the same ID', followed by an 'Add a sibling profile' button. A 'Next' button is at the bottom right. The fourth screen, titled 'Sibling Profile', has a dark blue header with a back arrow, a 'skip' link, and the title 'Sibling Profile'. It contains input fields for 'Name:\*', 'Date of Birth:\*' (with a date picker), 'School:\*', 'Parent/ Guardian Contact No:\*' (with a '+92' prefix), 'Choose Class \*' (a dropdown menu), and 'Choose Subject/s\*' (a dropdown menu). A 'Next' button is at the bottom right.

## Narrative Overview

**Report:** Payment option selection  
**Users:** Students  
**Tasks:** Selects payment method  
**System:** Any browser with internet access  
**Environment:** Standard report format

## Narrative Overview

**Form:** Payment details  
**Users:** Students  
**Tasks:** Takes payment details  
**System:** Any browser with internet access  
**Environment:** Standard form format.

## Narrative Overview

**Form:** Registration for teachers  
**Users:** Teachers  
**Tasks:** Takes necessary information for registration.  
**System:** Any browser with internet access  
**Environment:** Standard form format

## Narrative Overview

**Form:** Registration for teachers  
**Users:** Teachers  
**Tasks:** Takes necessary information for registration.  
**System:** Any browser with internet access  
**Environment:** Standard form format

The image displays four mobile app screens with a dark blue background and white text. Each screen has a back arrow in the top left corner and a 'Next' button in the bottom right corner.

- Screen 1: Register**
  - Fields: Email Id:\*, Set Password, Confirm Password, Adding profile picture.
  - Payment Options overlay: Bkash, Credit/ Debit, Cash.
  - Bottom button: Add a signing profile.
- Screen 2: Credit/Debit Card**
  - Total Amount: Rs 3000/=
  - Subjects: English, Mathematics, Urdu.
  - Fields: Name on Card:\*, Card Number:\*, Expiry Date:\*, Security Code:\*
  - Bottom button: Pay
- Screen 3: Register**
  - Fields: Name:\*, Date of Birth: (Date, Month, Year), Gender, Username.
  - Teaching Preferences: Subject You Teach, Choose Class, Location.
- Screen 4: Register**
  - Qualifications and Credentials: Highest Degree, Institute, Teaching Certification, Years Of Teaching Experience, Available Time, Payment Information, About Yourself.

## Narrative Overview

**Form:** Registration for teachers

**Users:** Students & Teachers

**Tasks:** Sets password

**System:** Any browser with internet access

**Environment:** Standard form format

## Narrative Overview

**Form & Report:**

Search box and teacher details

**Users:** Students

**Tasks:** Find teachers

**System:** Any browser with internet access

**Environment:** Standard form & report format

## Narrative Overview

**Form & Report:**

Search box and teacher details

**Users:** Students

**Tasks:** Find teachers

**System:** Any browser with internet access

**Environment:** Standard form & report format

## Narrative Overview

**Form:** Search with filter

**Users:** Students

**Tasks:** Find teachers using filter

**System:** Any browser with internet access

**Environment:** Standard form & report format

The image displays four mobile application screens with a dark blue background and white text.

- Screen 1 (Register):** Features a registration form with fields for "Email Id: \*", "Set Password: \*", and "Confirm Password: \*". A "Log in" button is at the bottom.
- Screen 2 (Search Results):** Shows a search bar with "Search By Name Or Institution". Below is a teacher profile for "Hasibul Hasan" with a 5-star rating. Details include: Institute: Khulna University, Discipline: CSE, Degree: B.Sc, 2nd year, Experience: 5 years, Subject | Teach: Physics, Chemistry, Availability: 5pm-11pm, Class: SSC, Salary: 4000.
- Screen 3 (Search Results):** Similar to Screen 2, but for "Abrar Jahin" with a 5-star rating. Details include: Institute: Khulna University, Discipline: CSE, Degree: B.Sc, 2nd year, Experience: 5 years, Subject | Teach: Higher Math, Availability: 5pm-11pm, Class: SSC&HSC, Salary: 5000.
- Screen 4 (Search Filters):** Displays a "Search Filters" modal with dropdowns for "Tutor Gender: Female", "Salary Range: 3000", and "Location". "Cancel" and "Apply" buttons are at the bottom.

## Narrative Overview

**Form & Report:**

Search box and teacher details

**Users:** Students

**Tasks:** Find teachers

**System:** Any browser with internet access

**Environment:**

Standard form & report format

## Narrative Overview

**Report:** In app options for teachers

**Users:** Teachers

**Tasks:** Selecting options

**System:** Any browser with internet access

**Environment:**

Standard report format

## Narrative Overview

**Report:** In app options for teachers

**Users:** Teachers

**Tasks:** Selecting options

**System:** Any browser with internet access

**Environment:**

Standard report format

## Narrative Overview

**Report:** Sharing option

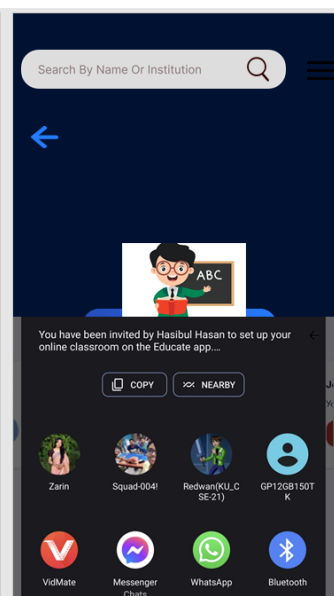
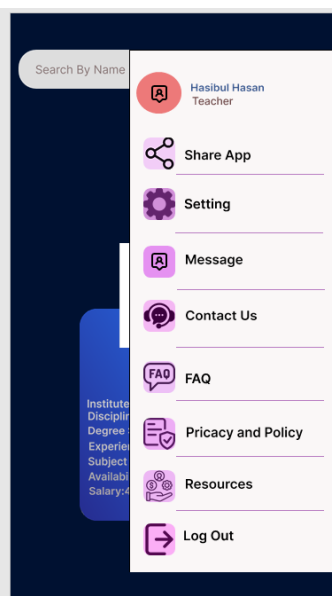
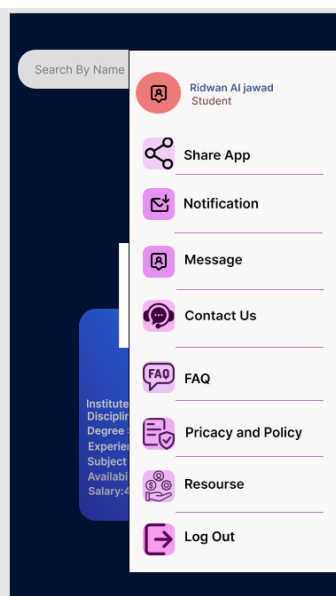
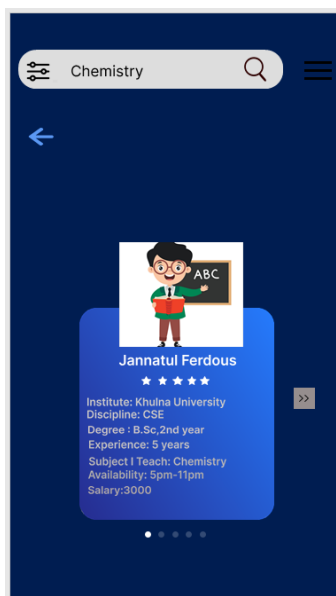
**Users:** Teachers

**Tasks:** Shares the app

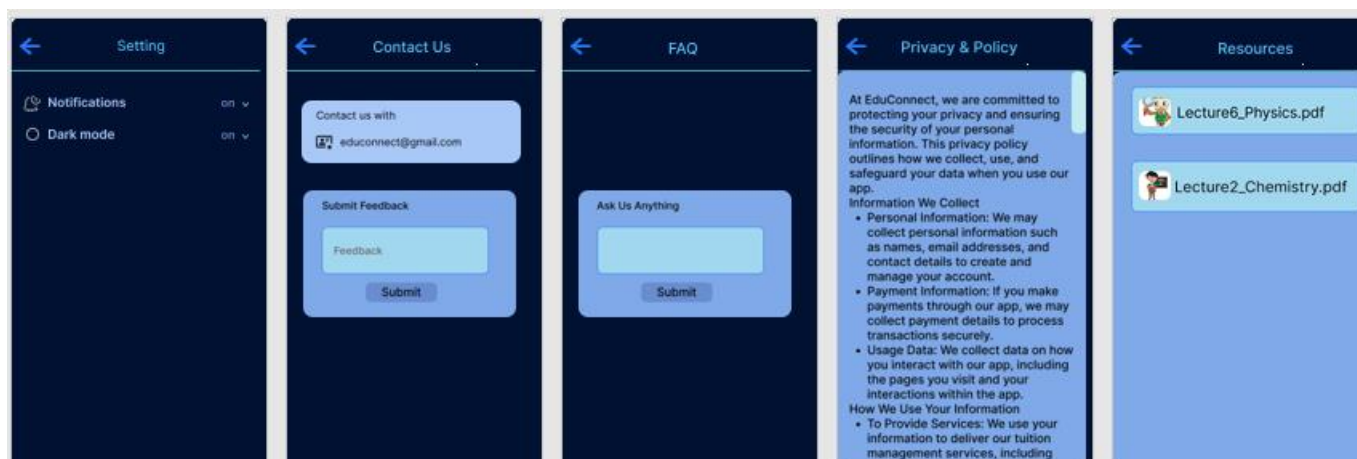
**System:** Any browser with internet access

**Environment:**

Standard report format



<p>Narrative Overview</p> <p><b>Report:</b> Settings  <b>Users:</b> Students &amp; Teachers  <b>Tasks:</b> Changes app setting  <b>System:</b> Any browser with internet access  <b>Environment:</b> Standard report format</p>	<p>Narrative Overview</p> <p><b>Form &amp; Report:</b> contact us and feedback  <b>Users:</b> Students  <b>Tasks:</b> Contact information and feedback box  <b>System:</b> Any browser with internet access  <b>Environment:</b> Standard form &amp; report format</p>	<p>Narrative Overview</p> <p><b>Report:</b> Privacy and policy  <b>Users:</b> Students &amp; Teachers  <b>Tasks:</b> Informs about privacy and policy  <b>System:</b> Any browser with internet access  <b>Environment:</b> Standard report format</p>	<p>Narrative Overview</p> <p><b>Report:</b> Resources  <b>Users:</b> Students &amp; Teachers  <b>Tasks:</b> Managing resources  <b>System:</b> Any browser with internet access  <b>Environment:</b> Standard report format</p>
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## 4. Feasibility Studies

### a. Economic Feasibility Analysis:

#### Tangible Benefits:

Tangible Benefits Worksheet EduConnect	
1. Cost Reduction	3000
2. Error reduction	1500
3. Increased flexibility	1000
4. Improvement in management	1200
<b>Total Benefits</b>	<b>6700</b>

*Tangible Benefits*

ONE-TIME Costs Worksheet EduConnect	
1. Development Cost	5000
2. New hardware	10000
3. User training	3000
4. Other	2000
<b>Total Cost</b>	<b>20000</b>

*One Time Cost*

**Recurring Cost:**

<b>Recurring Cost Worksheet</b> EduConnect	
1. Application software maintenance	2000
2. Additional memory storage	2800
3. New Software or hardware leases	4200
4. Server expenses	1000
5. Others	2000
<b>Total Recurring cost</b>	<b>12,000</b>

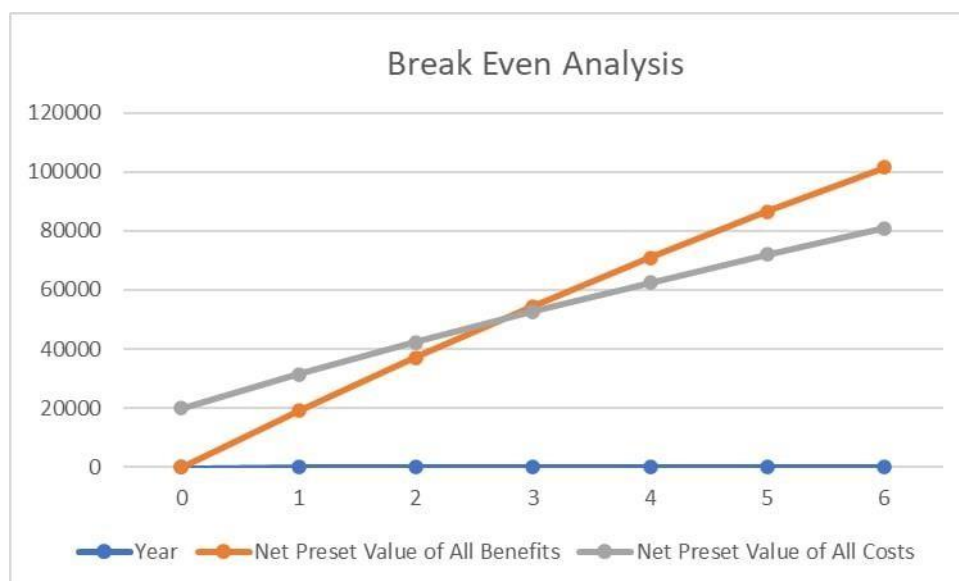
Rate (5%)	0.05							<b>Total</b>
<b>Year</b>	2023	2024	2025	2026	2027	2028	2029	
	0	1	2	3	4	5	6	
<b>Benefits</b>	0	20000	20000	20000	20000	20000	20000	
Present Value Factor	1	0.952381	0.907029	0.863838	0.822702	0.783526	0.746215	
Present Value of all Benefits	0	19047.62	18140.59	17276.75	16454.05	15670.52	14924.31	
<b>Net Preset Value of All Benefits</b>	0	19047.62	37188.21	54464.96	70919.01	86589.53	101513.8	101513.8
<b>Cost</b>								
One time cost	20000							
Recurring Cost	0	12000	12000	12000	12000	12000	12000	
Present Value Factor	1	0.952381	0.907029	0.863838	0.822702	0.783526	0.746215	
Present Value of all Recurring cost	20000	11428.57	10884.35	10366.05	9872.43	9402.314	8954.585	
<b>Net Preset Value of All Cost</b>	20000	31428.57	42312.93	52678.98	62551.41	71953.72	80908.3	80908.3
<b>Overall Net Present Value</b>								20605.54
<b>Cash Flow Analysis</b>								
Yearly NPV cash Flow	-20000	7619.048	7256.236	6910.701	6581.62	6268.209	5969.723	
Overall NPV cash Flow	-20000	-12381	-5124.72	1785.984	8367.604	14635.81	20605.54	
<b>Break Even Point</b>	2.74 Year							
<b>Break Even ratio</b>	0.741563							

## b. Break Even Analysis:

$$\text{Break-Even Ratio} = \frac{\text{Yearly NPV Cash Flow} - \text{Overall NPV Cash Flow}}{\text{Yearly NPV Cash Flow}} = 0.74$$

Therefore, project breakeven occurs at approximately 2.74 years. A graphical representation of this analysis is shown in the Figure.

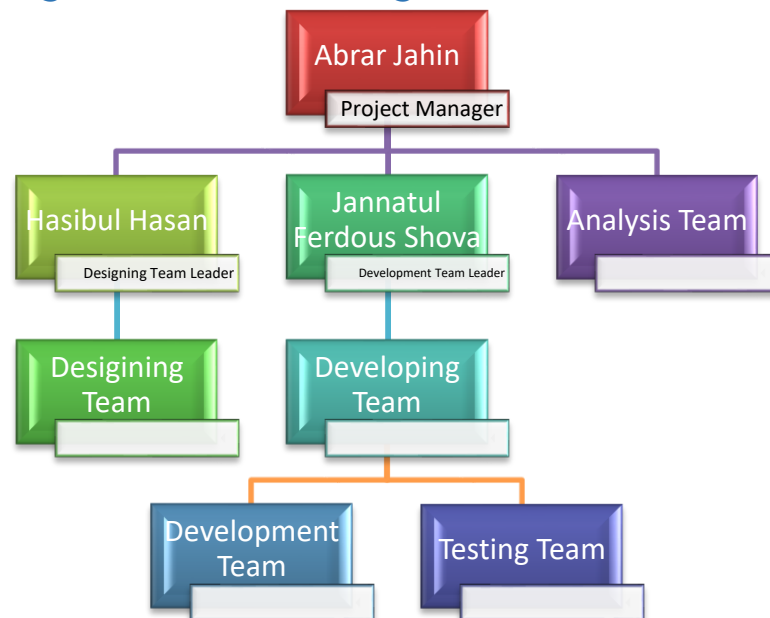
### Break-Even Analysis 2D graph:



Break-Even Analysis 2D graph

## 5. Management Procedures

### a. Team Configuration and Management:



*Management Team*

### b. Task Responsibility Matrix:

The goal of the Task Responsibility Matrix is to create a clear understanding and agreement on who performs what on a project, and its primary function is to accomplish this purpose. It is possible to show either the people or the groups

that are responsible for carrying out particular duties or tasks. After the matrix has been finished, it should be sent out for approval before being disseminated.

SDLC Tasks									
	Abrar	Abrar	Shova	Abrar	Hasib	Abrar	Hasib	Shova	
	PM	Analysis		Design		Build		Client	
1 Project Kickoff	R								I
2 Requirments Gathering	I	R	R						
3 Requirments Documentation		R	R						
4 Document Design				R	R				
5 Start Build	A					R	R		I
6 Build Landing Page	I					R	R		
7 Build Login feature	I					R	R		
8 Create test case	I					C	R		
9 Execute test case	I				C	R	R		
10 Close Project	R	C	C	C	C	C	C		C

A = Accountable  
 C = Consulted  
 I = Informed  
 R = Responsible

Figure 4.2: Task Responsibility Matrix

### c. Communication Matrix:

The communication matrix is only a convenient approach to keep all of the relevant participants informed. It provides information on a variety of topics, including project owners, deadlines, the current status of the project, objectives, and so on.

Couple of the advantages are as follows:

- Improved communication across departments.
- More efficient use of resources.
- Faster decision-making.

Communication Matrix					
S.N	Project	Client	Project M	Technical M	Sponsor
1	Project Scope	A	R	R	A
2	Changes	A	C	A	C
3	Notes Gathering	I	A	A	C
4	RFIs	R	R	A	R
5	RFQs	R	R	A	R
6	Schedule updates	R	A	A	R
7	Technical Reviews	I	R	A	C

A = Approval required

R = Review and Comment

C = Consulted

I = Informed

Figure 4.3: Communication Matrix

A project communication matrix might summarize the communication plan (see Figure 4.3). This matrix may be readily shared among team members and reviewed by project stakeholders, so the appropriate people get the correct information at the right time and in the right format.

## 6. Project Charter

Project Overview:			
<b>Project Name:</b>	EduConnect – An Online Tuition Management System		
<b>Author:</b>	Abrar Jahin, Hasibul Hasan, Jannatul Ferdous Shova		
<b>Creation Date:</b>	03/08/2023	<b>Last Revision Date</b>	05/08/2023
<b>Project Requestor</b>	Hasibul Hasan		
<b>Project Manager</b>	Abrar Jahin		
<b>Charter Status</b>	Pending		
<b>Sponsor Signature</b>	N/A	<b>Date of Approved</b>	03/08/2023
<b>Start &amp; End Date</b>	--		

Project Details:	
<b>Project Description</b>	The EduConnect App Enhancement project seeks to improve the functionality and user experience of the existing EduConnect platform, a comprehensive application connecting local teachers and tutors with students. The project focuses on incorporating additional features to provide teachers with enhanced flexibility and schedule management, fostering a more dynamic and user-friendly learning environment.
<b>Project Objectives and Key Assumptions</b>	<p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Enable teachers to choose hosting preferences (virtual or in-person).</li> <li>2. Redesign the schedule management interface for seamless modifications.</li> <li>3. Enhance in-app messaging and notifications for effective communication.</li> <li>4. Design the user interface for intuitiveness and visual appeal.</li> </ol> <p><b>Key Assumptions:</b></p> <ol style="list-style-type: none"> <li>1. Users will readily adopt new features, contributing to</li> </ol>

	<p>increased engagement.</p> <p>2. Existing technology infrastructure supports new feature integration.</p> <p>3. Users can quickly adapt to the redesigned interface with minimal training.</p> <p>4. Stakeholders actively collaborate during testing and feedback phases.</p> <p>5. Development proceeds according to the project timeline, minimizing delays.</p> <p>6. Enhanced communication features lead to improved collaboration.</p> <p>7. Redesigned user interface results in a positive user experience.</p> <p>8. Enhancement position EduConnect competitively in the market.</p> <p>9. The project positively impacts the local educational community.</p>
<b>Project Goals &amp; Outcome</b>	The project goals and expected outcomes for the EduConnect App Enhancement are designed to deliver tangible improvements to the platform, ensuring increased user satisfaction, enhanced learning experiences, and a competitive edge in the educational technology landscape. The measurement and evaluation strategies will provide insights into the success and impact of the project.
<b>Stakeholders</b>	<p><b>Project Manager:</b> Abrar Jahin</p> <p><b>Development Team:</b> Hasibul Hasan, Jannatul Ferdous Shova</p> <p><b>End Users:</b> Teachers and Students</p>
<b>Timeline</b>	The project is scheduled to commence on 03-08-2023 and conclude on 27-09-2023, with key milestones and deliverables outlined in the project plan.
<b>Budget</b>	The project budget is allocated for resource allocation, development efforts, and testing. Detailed budgetary breakdown and monitoring will be managed by the Project Manager
<b>Risks Mitigations</b>	Identified risks include potential delays due to unforeseen technical challenges and user acceptance concerns. Continuous monitoring and proactive risk mitigation strategies will be employed to ensure timely project delivery.



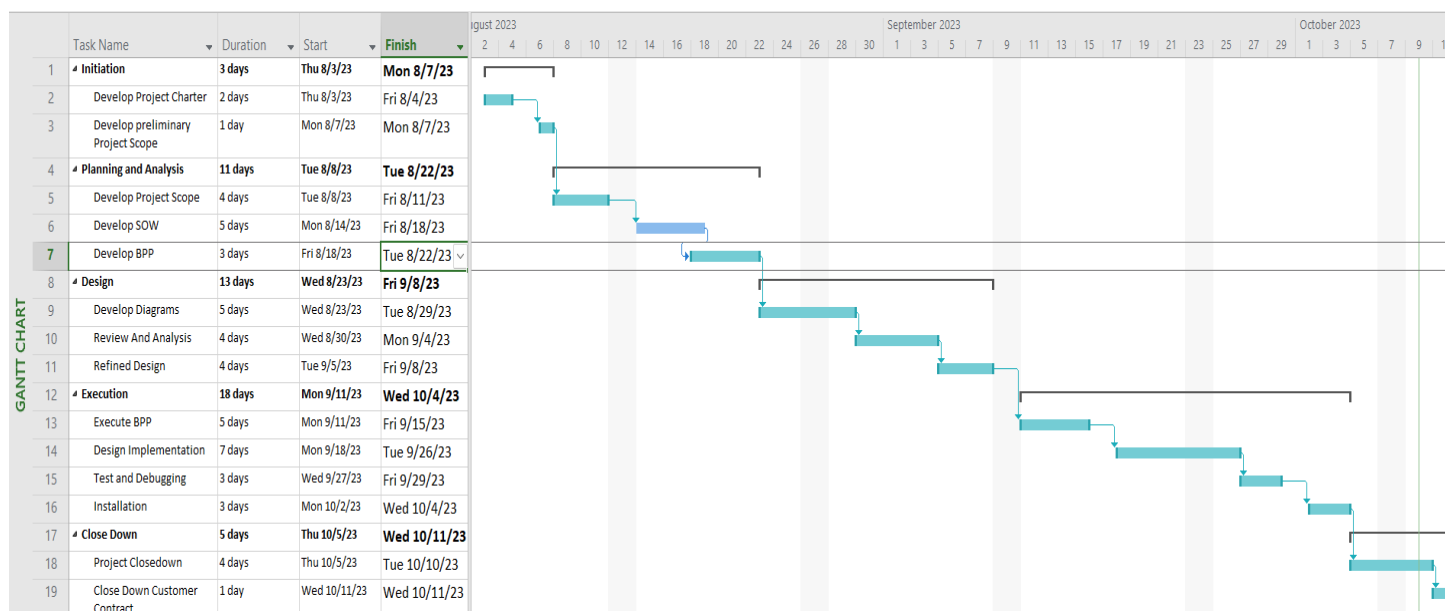
<b>Project Success Criteria</b>	The success of the project will be measured by the successful implementation of the proposed features, positive user feedback, and the achievement of project objectives within the stipulated timeline and budget.
<b>Conclusion</b>	The EduConnect App Enhancement project aims to elevate the platform's capabilities, offering a more flexible and user-centric experience. Through collaborative efforts and effective project management, we anticipate achieving a successful outcome that enhances the educational journey for teachers, students, and parents within the local community.

## 7. Project Schedule

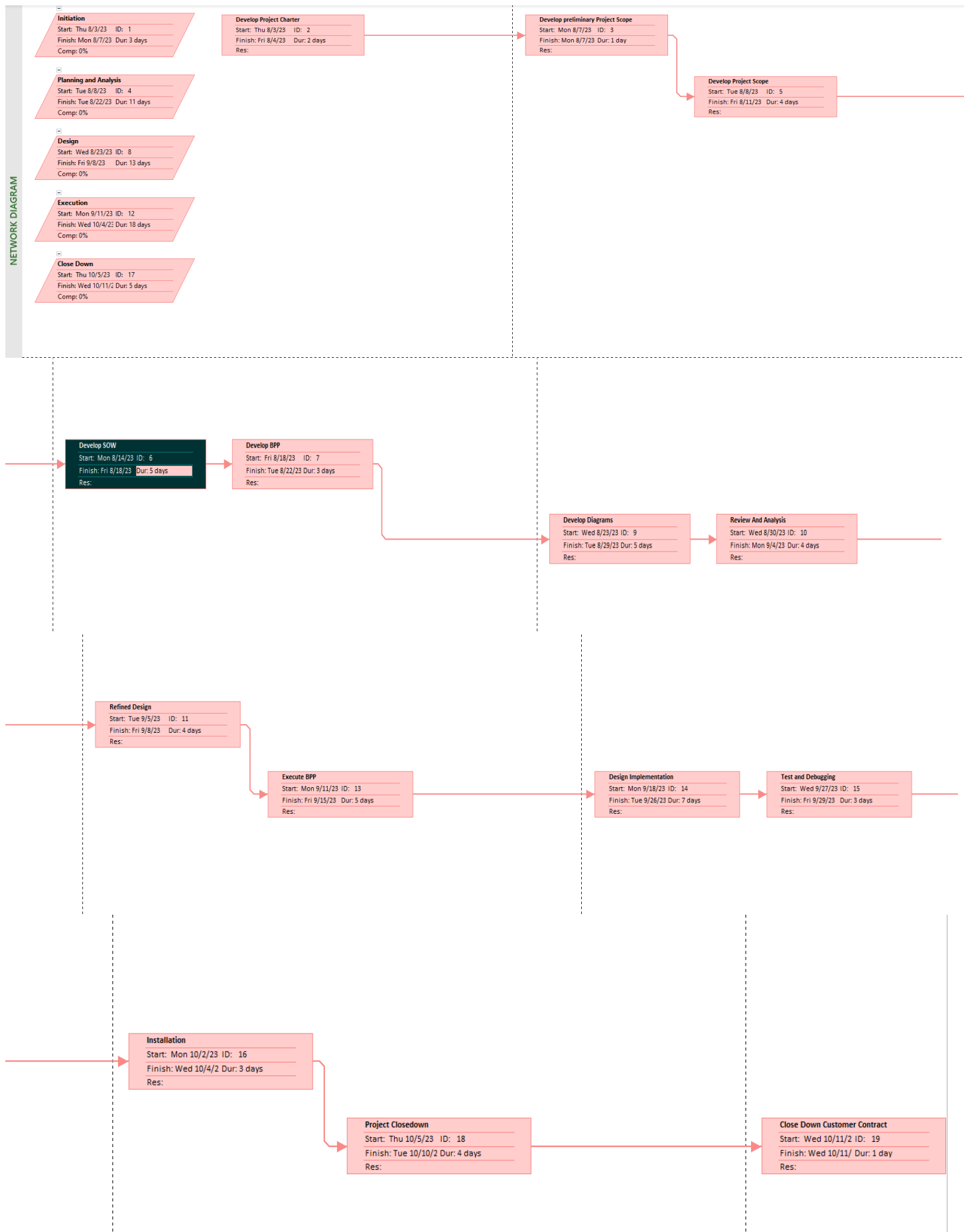
### a. Activity List

GANTT CHART	Task Name	Duration	Start	Finish
	1 <b>Initiation</b>	3 days	Thu 8/3/23	<b>Mon 8/7/23</b>
	2 Develop Project Charter	2 days	Thu 8/3/23	Fri 8/4/23
	3 Develop preliminary Project Scope	1 day	Mon 8/7/23	Mon 8/7/23
	4 <b>Planning and Analysis</b>	11 days	Tue 8/8/23	<b>Tue 8/22/23</b>
	5 Develop Project Scope	4 days	Tue 8/8/23	Fri 8/11/23
	6 Develop SOW	5 days	Mon 8/14/23	Fri 8/18/23
	7 Develop BPP	3 days	Fri 8/18/23	Tue 8/22/23
	8 <b>Design</b>	13 days	Wed 8/23/23	<b>Fri 9/8/23</b>
	9 Develop Diagrams	5 days	Wed 8/23/23	Tue 8/29/23
	10 Review And Analysis	4 days	Wed 8/30/23	Mon 9/4/23
	11 Refined Design	4 days	Tue 9/5/23	Fri 9/8/23
	12 <b>Execution</b>	18 days	Mon 9/11/23	<b>Wed 10/4/23</b>
	13 Execute BPP	5 days	Mon 9/11/23	Fri 9/15/23
	14 Design Implementation	7 days	Mon 9/18/23	Tue 9/26/23
	15 Test and Debugging	3 days	Wed 9/27/23	Fri 9/29/23
	16 Installation	3 days	Mon 10/2/23	Wed 10/4/23
	17 <b>Close Down</b>	5 days	Thu 10/5/23	<b>Wed 10/11/23</b>
	18 Project Closedown	4 days	Thu 10/5/23	Tue 10/10/23
	19 Close Down Customer Contract	1 day	Wed 10/11/23	Wed 10/11/23

### b. Grantt Chart



## c. Network Diagram



## 8. Business Document

