



**Department of Software Engineering**  
**Faculty of Science and Information Technology**  
**Supervisor Approval Form**

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| Type of work                          | Project                                                                |

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## Ghapfy – The Next Generation Content Creation and Interaction Platform

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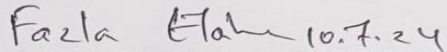
Daffodil International University

This project report has been submitted in fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering.

### APPROVAL

This thesis titled on “Ghapfy - The Next Generation Content Creation and Interaction Platform”, submitted by **Utsa Chandra Sutradhar (ID: 201-35-523)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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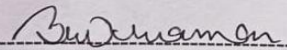
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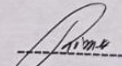
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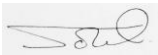
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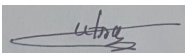
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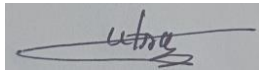


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## DECLARATION

I hereby declare that I've accepted this design under the supervision of Mohammad Khaled Sohel, Assistant Professor, Department of Software Engineering, Daffodil International University. I also declare that I've submitted neither this design nor any part of it for the award of any degree.

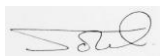


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## ACKNOWLEDGMENT

First of all, I'm thankful to the Almighty God for making me eligible to complete this design. also I would like to thank my administrator, Mohammad Khaled Sohel, Assistant Professor, Department of Software Engineering. I'm extremely thankful and obliged to her, as she has given me her expert, sincere, and precious guidance and stimulant. I would like to thank everyone who helped me with my design with their important suggestions. Without their passionate participation and input, the design could n't have been successfully conducted. I take this occasion to convey my sincere thanks to all faculty members of the Department of Software Engineering for their help and stimulant. Eventually, I would like to thank my parents for keeping me in their prayers and supporting me to be better every step of the way. Without their love and support, I would not be successful. To add up, with the help of the abovementioned support, the design is possible.

## **ABSTRACT**

In the rapidly evolving digital landscape, the demand for versatile and integrated content creation tools is ever-growing. "Ghapfy" emerges as an innovative application designed to revolutionize the way users create, share, and engage with multimedia content.

This platform empowers users by providing an all-in-one solution for producing and disseminating videos, images, and text. Beyond its robust content creation capabilities, Ghapfy distinguishes itself with unique features such as online courses and live celebrity guidance, fostering a comprehensive learning and interactive experience. Additionally, Ghapfy offers users the opportunity to collaborate with talented individuals, enhancing creative projects through dynamic partnerships.

This project aims to explore Ghapfy's potential impact on digital content creation, its role in educational and entertainment sectors, and its capacity to facilitate meaningful interactions among users. By leveraging advanced technologies and user-centric design, Ghapfy sets a new standard in the digital content ecosystem, offering unparalleled opportunities for creativity, learning, and engagement.

## **DEDICATION**

To my beloved parents, my mentor, and my esteemed teachers your unwavering support, understanding, and guidance have been my constant companions on this journey. Your patience, care, and love have been the foundation that allowed me to reach this point, and for that, I am eternally grateful

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## **Chapter 1: Introduction**

### **1.1 Project-Overview**

In the rapidly evolving digital landscape, the demand for versatile and integrated content creation tools is ever-growing. "Ghapfy" emerges as an innovative application designed to revolutionize the way users create, share, and engage with multimedia content. This platform empowers users by providing an all-in-one solution for producing and disseminating videos, images, and text.

### **1.2 Project Background**

Ghapfy was developed in response to the increasing need for a comprehensive platform that integrates multiple forms of content creation. Traditional tools often lack the seamless integration required for modern digital content creation, prompting the development of a solution that not only combines these tools but also offers unique features to enhance user experience.

### **1.3 Project-Purpose**

Ghapfy is designed to be a versatile platform that empowers users to create and share multimedia content. With a variety of tools and features, including online courses and live celebrity guidance, Ghapfy seeks to inspire creativity and elevate the learning and interactive experience for its users.

### **1.4 Project Motivation**

The motivation behind Ghapfy stems from the recognition that current digital content creation tools are fragmented and often insufficient for the diverse needs of users. The platform seeks to address this gap by providing an integrated solution that caters to both amateur and professional content creators, encouraging collaboration and innovation.

## 1.5 Objective

Primary objective: Ghapfy is set a new standard in the digital content ecosystem.

This involves:

1. Providing a seamless, user-friendly interface for content creation and sharing.
2. Offering unique features such as live celebrity guidance and collaboration opportunities with talented individuals.
3. Enhancing the educational experience through integrated online courses
4. Facilitating meaningful interactions among users, thereby building a vibrant creative community.

**1.6** The project schedule is illustrated below using a Gantt chart, which outlines the timeline for each phase of the project, including start and end dates, task durations, and key milestones

| Week                            | 1 -3 <sup>rd</sup><br>Week | 3 <sup>rd</sup> - 5 <sup>th</sup> | 5 <sup>th</sup> - 10 <sup>th</sup> | 10 <sup>th</sup> - 13 <sup>th</sup> | 13 <sup>th</sup> - 15 <sup>th</sup> | 15 <sup>th</sup> -<br>17 <sup>th</sup> |
|---------------------------------|----------------------------|-----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|
| Project Proposal & Requirements |                            |                                   |                                    |                                     |                                     |                                        |
| SRS                             |                            |                                   |                                    |                                     |                                     |                                        |
| Designing                       |                            |                                   |                                    |                                     |                                     |                                        |
| Development                     |                            |                                   |                                    |                                     |                                     |                                        |
| Testing                         |                            |                                   |                                    |                                     |                                     |                                        |
| Finalization                    |                            |                                   |                                    |                                     |                                     |                                        |

## 1.7 Project Schedule: Milestones during project development

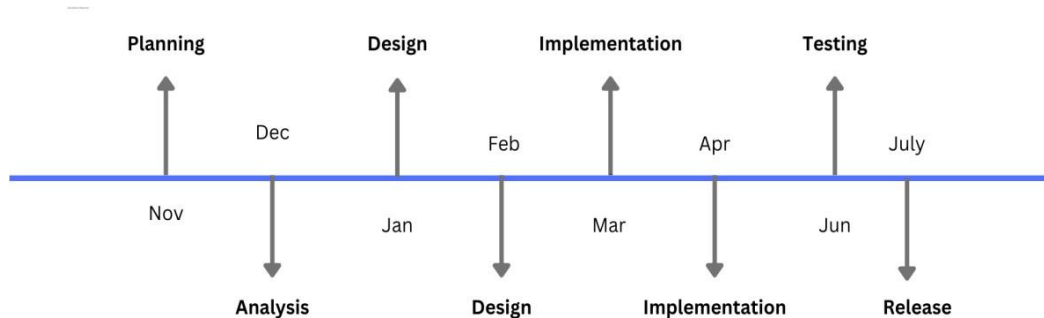


Figure: Milestone for Transport Management System

### **1.8 Stakeholders:**

1. User
2. Expert User
3. Admin

### **1.3 Literature Review:**

Existing software for Mobile and Web:

1. TikTok
2. Likey
3. Facebook

## **Chapter 2: Requirement-Engineering**

### **2.1 Functional-Requirements:**

1. Authenticate
2. Get All Post
3. Add Reaction
4. Write Comment
5. Search Post
6. Get Profile Information
7. Add Follow
8. Un Follow
9. Create Live
10. Enroll Online Course

### **2.2 NonFunctional Requirements**

1. Performance: Quick system responses and optimal use of resources.
2. Security: Strong data protection and threat defense.
3. Scalability: Easily scalable to handle user growth.
4. Reliability: High availability with minimal downtime.
5. Usability: User-friendly and intuitive interface.

## 2.3 Software Requirements Specification (SRS):

### 2.3.1 Authenticate

|             |                                                                    |
|-------------|--------------------------------------------------------------------|
| FR-001      | Registration                                                       |
| Description | Fill up all the required fill to authenticate and click the button |
| Stakeholder | User, Expert User                                                  |

### 2.3.2 Get All Post

|             |                                                       |
|-------------|-------------------------------------------------------|
| FR-002      | Get All Post                                          |
| Description | Login into the system and connect internet connection |
| Stakeholder | User, Expert User                                     |

### 2.3.3 Create New Post

|             |                                                                              |
|-------------|------------------------------------------------------------------------------|
| FR-003      | Create New Post                                                              |
| Description | Choose image or video or write the text then click on the create post button |
| Stakeholder | User                                                                         |

### 2.3.4 Add Reaction

|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| FR-004      | Add Reaction                                                                   |
| Description | Get the user post then click on the react button item and choose your reaction |
| Stakeholder | User, Expert User                                                              |

### 2.3.5 Write Comment

|             |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
| FR-005      | Write Comment                                                                         |
| Description | Get the user post and write something on comment section and click the comment button |
| Stakeholder | User, Expert User                                                                     |

### 2.3.6 Search Post

|             |                                                                       |
|-------------|-----------------------------------------------------------------------|
| FR-006      | Search Post                                                           |
| Description | Click on the search-bar and write search text and click search button |
| Stakeholder | User, Expert User                                                     |

### 2.3.7 Get Profile Information

|             |                                            |
|-------------|--------------------------------------------|
| FR-007      | Get Profile Information                    |
| Description | Log into the system and go to profile page |
| Stakeholder | User, Expert User                          |

### 2.3.8 Add Follow

|             |                                                                                   |
|-------------|-----------------------------------------------------------------------------------|
| FR-008      | Add Follow                                                                        |
| Description | Log into the system and go to profile page and finally click on the follow button |
| Stakeholder | User, Expert User                                                                 |

### 2.3.9 Un-Follow User

|             |                                                                                     |
|-------------|-------------------------------------------------------------------------------------|
| FR-009      | Un-Follow User                                                                      |
| Description | Log into the system and go to profile page and finally click on the unfollow button |
| Stakeholder | User, Expert User                                                                   |

### 2.3.10 Create Live

|             |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------|
| FR-010      | Create Live                                                                                      |
| Description | Go to profile page and click on the create live button and write live caption finally publish it |
| Stakeholder | Expert User                                                                                      |

### 2.3.11 Enroll online Course

|             |                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------|
| FR-011      | Enroll online course                                                                                                   |
| Description | View the course details and by click on the pay button give payment information and finally click on the enroll button |
| Stakeholder | User                                                                                                                   |

## 2.4 Feasibility Analysis

This section evaluates the overall feasibility of the "Ghapfy" project by analyzing its technical, operational, economic, and legal aspects. The feasibility analysis ensures that the project is viable and worth pursuing, considering all potential challenges and benefits.

## 2.5 Technical Feasibility

Technical feasibility assesses whether the current technology and infrastructure can support the development and implementation of "Ghapfy." This involves evaluating:

1. **Hardware Requirements:** The necessary hardware components, such as servers, storage, and user devices.
2. **Software Requirements:** The software platforms, development tools, and frameworks needed.
3. **Technical Expertise:** The availability of skilled personnel to develop and maintain the app.
4. **Integration:** Compatibility with existing systems and potential integration challenges.

## 2.6 Operational Feasibility

Operational feasibility examines how well the proposed solution fits within the existing organizational structure and workflows. This includes:

1. **User Adoption:** Potential user acceptance and ease of use.
2. **Support and Maintenance:** The ability to provide ongoing support and updates.
3. **Training:** Necessary training programs for users and administrators.
4. **Scalability:** The system's capacity to scale with increasing user numbers and content volume.

## 2.7 Economic Feasibility

Economic feasibility analyzes the cost-effectiveness of the project by considering:

1. **Initial Costs:** Development, hardware, software, and launch expenses.
2. **Operational Costs:** Ongoing maintenance, support, and operational expenses.
3. **Revenue Projections:** Potential revenue from subscriptions, advertisements, and premium features.
4. **Return on Investment (ROI):** The projected financial benefits compared to the costs.

## 2.8 Legal and Ethical Feasibility

This section evaluates the legal and ethical implications of the "Ghapfy" project, ensuring compliance with relevant laws and ethical standards:

1. **Regulatory Compliance:** Adherence to data protection, copyright, and other relevant regulations.
2. **Privacy:** Ensuring user data is handled responsibly and securely.
3. **Intellectual Property:** Addressing issues related to content ownership and licensing
4. **Ethical Considerations:** Ensuring ethical standards in content moderation and user interaction.

## 2.9 Performance

Performance analysis focuses on the technical and operational performance metrics of "Ghapfy," including:

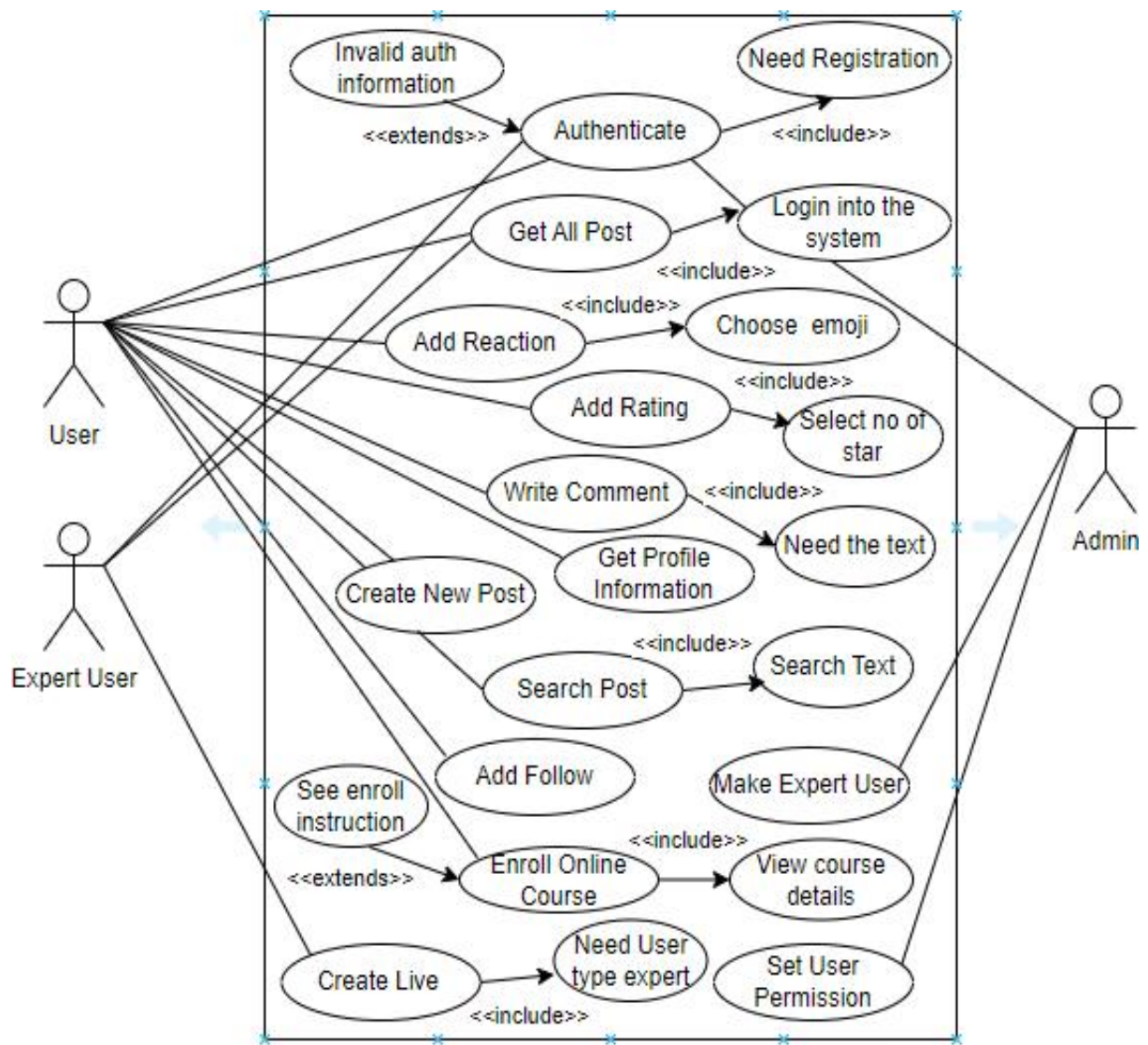
1. **System Reliability:** The system's ability to perform consistently without failures.
2. **Load Handling:** The system's capacity to manage high user traffic and large volumes of content.
3. **Speed and Efficiency:** Response times and the efficiency of content creation, sharing, and interaction.
4. **User Experience:** Overall user satisfaction with the system's performance, usability, and responsiveness.

## Chapter 3: Then System Design:

### 3.1 Model:

1. Use-Case Diagram
2. Case Description
3. Block
4. Activity
5. ER
6. Sequence Diagram
7. Class Diagram

### 3.2



### 3.3 Use Case Description:

#### 3.3.1 Authenticate

|                            |                                           |
|----------------------------|-------------------------------------------|
| <b>Use-case</b>            | Authenticate                              |
| <b>Goal</b>                | Authenticate to enter                     |
| <b>Precondition</b>        | None                                      |
| <b>Pass End Conditions</b> | User authenticate is done.                |
| <b>Fail End Conditions</b> | User authenticate is unsuccessful.        |
| <b>Primary Actor</b>       | User, Expert User                         |
| <b>Secondary Actor</b>     | N/A                                       |
| <b>Tigger</b>              | A new user entered the system.            |
| <b>Description</b>         | Authenticate as a new user in the system. |
| <b>Alternative Flows</b>   | Mandatory to a                            |

|                             |                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quality Requirements</b> | <ul style="list-style-type: none"> <li>• Enter the first name</li> <li>• Enter the last name</li> <li>• Enter email</li> <li>• Set the password</li> <li>• Click the Authenticate button</li> </ul> |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.3.2 Get All Post

|                              |                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Get All Post                                                                                                |
| <b>Goal</b>                  | Get user post list                                                                                          |
| <b>Precondition</b>          | The user must be authenticated and authorized.                                                              |
| <b>Success End Condition</b> | Get Post List HTTP status code 200                                                                          |
| <b>Fail End Condition</b>    | Post loaded unsuccessful.                                                                                   |
| <b>Primary Actor</b>         | User, Expert User                                                                                           |
| <b>Secondary Actor</b>       | N/A                                                                                                         |
| <b>Tigger</b>                | A user initiates the process                                                                                |
| <b>Description</b>           | Go to home page and wait for the post loaded                                                                |
| <b>Alternative Flows</b>     | No internet connection<br>JWT token error                                                                   |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"> <li>• Connection Internet</li> <li>• Refresh to load new post</li> </ul> |

### 3.3.3 Create New Post

|                              |                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Create New Post                                                                                                                                 |
| <b>Goal</b>                  | To add new post                                                                                                                                 |
| <b>Precondition</b>          | The user must be authenticated and authorized.                                                                                                  |
| <b>Success End Condition</b> | Successfully created new post                                                                                                                   |
| <b>Fail End Condition</b>    | Something error occurred                                                                                                                        |
| <b>Primary Actor</b>         | User, Expert User                                                                                                                               |
| <b>Secondary Actor</b>       | N/A                                                                                                                                             |
| <b>Tigger</b>                | A user requests to create new post                                                                                                              |
| <b>Description</b>           | Create a new post and show on the post list                                                                                                     |
| <b>Alternative Flows</b>     | N/A                                                                                                                                             |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"><li>• Select Image or video or text</li><li>• Select category</li><li>• Click on create post button</li></ul> |

### 3.3.4 Add Reaction

|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Add Reaction                                                                             |
| <b>Goal</b>                  | React on a post                                                                          |
| <b>Precondition</b>          | The user must be authenticated and authorized.                                           |
| <b>Success End Condition</b> | N/A                                                                                      |
| <b>Fail End Condition</b>    | Fails to react.                                                                          |
| <b>Primary Actor</b>         | User, Expert User                                                                        |
| <b>Secondary Actor</b>       | N/A                                                                                      |
| <b>Tigger</b>                | A user requests to react on post                                                         |
| <b>Description</b>           | A user add react on a specific post                                                      |
| <b>Alternative Flows</b>     | N/A                                                                                      |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"><li>• Select Post</li><li>• Choos your react</li></ul> |

### 3.3.5 Add Rating

|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| <b>Use-case</b>              | Do Rating                                                                                |
| <b>Target</b>                | Add rating on a post                                                                     |
| <b>Precondition</b>          | The user must be authenticated and authorized.                                           |
| <b>Success End Condition</b> | Successfully rated                                                                       |
| <b>Fail End Condition</b>    | Something error occurred                                                                 |
| <b>Primary Actor</b>         | User, Expert User                                                                        |
| <b>Secondary Actor</b>       | N/A                                                                                      |
| <b>Tigger</b>                | A user requests to rating the post                                                       |
| <b>Description</b>           | Add rating on a post                                                                     |
| <b>Alternative Flows</b>     | N/A                                                                                      |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"><li>• Select Post</li><li>• Choose your rate</li></ul> |

### 3.3.6 Write Comment

|                              |                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Write Comment                                                                                                             |
| <b>Goal</b>                  | Comment on a post                                                                                                         |
| <b>Precondition</b>          | User must be authenticated and authorized.                                                                                |
| <b>Success End Condition</b> | Successfully added comment                                                                                                |
| <b>Fail End Condition</b>    | Doctor's information fails to load.                                                                                       |
| <b>Primary Actor</b>         | User, Expert User                                                                                                         |
| <b>Secondary Actor</b>       | N/A                                                                                                                       |
| <b>Tigger</b>                | A user requests to add comment                                                                                            |
| <b>Description</b>           | Add comment on a specific post                                                                                            |
| <b>Alternative Flows</b>     | N/A                                                                                                                       |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"><li>• Select Post</li><li>• Write comment text</li><li>• Click on done button</li></ul> |

### 3.3.7 Search Post

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Search Post                                                                                      |
| <b>Goal</b>                  | Get the post based on my search text                                                             |
| <b>Precondition</b>          | Enter search text, User must be authenticated and authorized.                                    |
| <b>Success End Condition</b> | Successfully Get the post                                                                        |
| <b>Fail End Condition</b>    | Post not found                                                                                   |
| <b>Primary Actor</b>         | User, Expert User, Admin                                                                         |
| <b>Secondary Actor</b>       | N/A                                                                                              |
| <b>Tigger</b>                | Request to get post based on query                                                               |
| <b>Description</b>           | Get post by query                                                                                |
| <b>Alternative Flows</b>     | N/A                                                                                              |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"><li>• Enter Query Text</li><li>• Click search button</li></ul> |

### 3.3.8 Add Follow

|                              |                                            |
|------------------------------|--------------------------------------------|
| <b>Use case</b>              | Add Follow                                 |
| <b>Goal</b>                  | Add user as a new following                |
| <b>Precondition</b>          | User must be authenticated and authorized. |
| <b>Success End Condition</b> | Add follow successfully.                   |
| <b>Fail End Condition</b>    | Something error occurred                   |
| <b>Primary Actor</b>         | User, Expert User                          |
| <b>Secondary Actor</b>       | N/A                                        |
| <b>Tigger</b>                | A user requests to add follow user         |
| <b>Description</b>           | Make a user as follwing                    |

|                             |                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|
| <b>Alternative Flows</b>    | N/A                                                                                                  |
| <b>Quality Requirements</b> | <ul style="list-style-type: none"> <li>• View user profile</li> <li>• Click follow button</li> </ul> |

### 3.3.9 Unfollow User

|                              |                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Un Follow User                                                                                            |
| <b>Goal</b>                  | Remove from following list                                                                                |
| <b>Precondition</b>          | User must be authenticated and followed                                                                   |
| <b>Success End Condition</b> | Successfully unfollow                                                                                     |
| <b>Fail End Condition</b>    | Something error occurred                                                                                  |
| <b>Primary Actor</b>         | User, Expert User                                                                                         |
| <b>Secondary Actor</b>       | N/A                                                                                                       |
| <b>Tigger</b>                | A user requests unfollow user                                                                             |
| <b>Description</b>           | Unfollow a user and remove from following list                                                            |
| <b>Alternative Flows</b>     | N/A                                                                                                       |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"> <li>• View user profile</li> <li>• Click on unfollow button</li> </ul> |

### 3.4.1 Create Live

|                     |                                            |
|---------------------|--------------------------------------------|
| <b>Use case</b>     | Create Live                                |
| <b>Goal</b>         | Create a public live                       |
| <b>Precondition</b> | User must be authenticate as a expert user |

|                              |                                                                                                            |
|------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Success End Condition</b> | Successfully created a live                                                                                |
| <b>Fail End Condition</b>    | Something error occurred.                                                                                  |
| <b>Primary Actor</b>         | Expert User                                                                                                |
| <b>Secondary Actor</b>       | N/A                                                                                                        |
| <b>Tigger</b>                | A user initiates the process to Create live                                                                |
| <b>Description</b>           | Create a public live                                                                                       |
| <b>Alternative Flows</b>     | N/A                                                                                                        |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"> <li>• Write Live caption</li> <li>• Click create live button</li> </ul> |

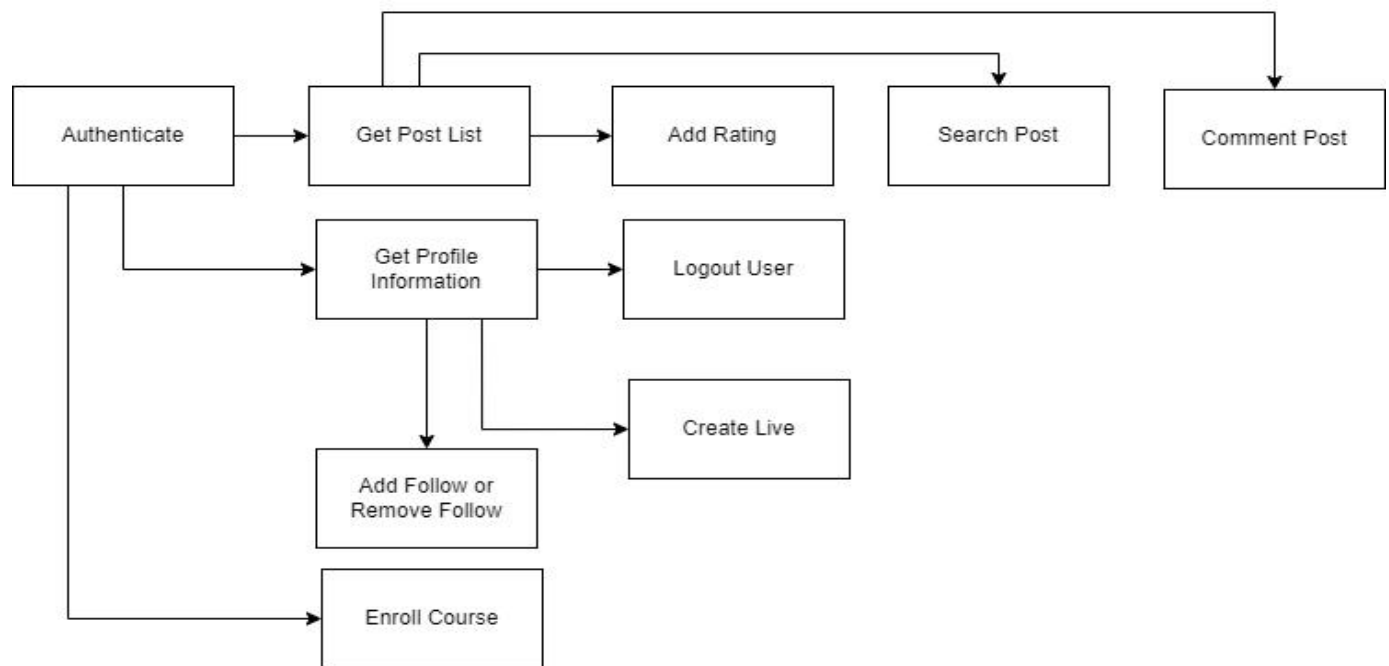
#### 3.4.2 Enroll online course

|                              |                                                                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Use case</b>              | Enroll online course                                                                                                                        |
| <b>Goal</b>                  | Enroll a Course                                                                                                                             |
| <b>Precondition</b>          | User must be authenticated and authorized.                                                                                                  |
| <b>Success End Condition</b> | Successfully Enrolled the course                                                                                                            |
| <b>Fail End Condition</b>    | Something error occurred                                                                                                                    |
| <b>Primary Actor</b>         | User                                                                                                                                        |
| <b>Secondary Actor</b>       | N/A                                                                                                                                         |
| <b>Tigger</b>                | A user requests enroll a course.                                                                                                            |
| <b>Description</b>           | Enroll a course to play the videos from expert                                                                                              |
| <b>Alternative Flows</b>     | N/A                                                                                                                                         |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"> <li>• View Course Details</li> <li>• Give payment information</li> <li>• Click on done button</li> </ul> |

### 3.4.3 Get Profile Information

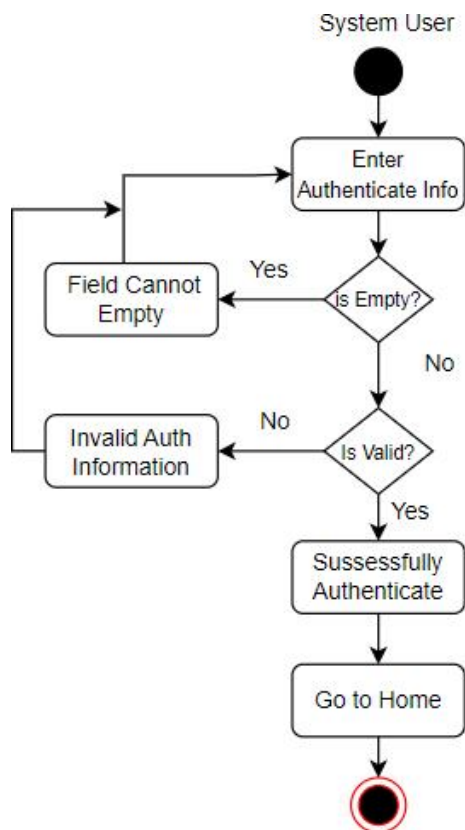
|                              |                                                                    |
|------------------------------|--------------------------------------------------------------------|
| <b>Use case</b>              | Get Profile Information                                            |
| <b>Goal</b>                  | Get User Profile Information                                       |
| <b>Precondition</b>          | User must be authenticated.                                        |
| <b>Success End Condition</b> | Status code 200.                                                   |
| <b>Fail End Condition</b>    | Profile info loaded fails.                                         |
| <b>Primary Actor</b>         | User, Expert User                                                  |
| <b>Secondary Actor</b>       | N/A                                                                |
| <b>Tigger</b>                | A user initiates the process to get profile information            |
| <b>Description</b>           | Get user profile information                                       |
| <b>Alternative Flows</b>     | N/A.                                                               |
| <b>Quality Requirements</b>  | <ul style="list-style-type: none"><li>• Get Profile page</li></ul> |

### 3.4 Block :

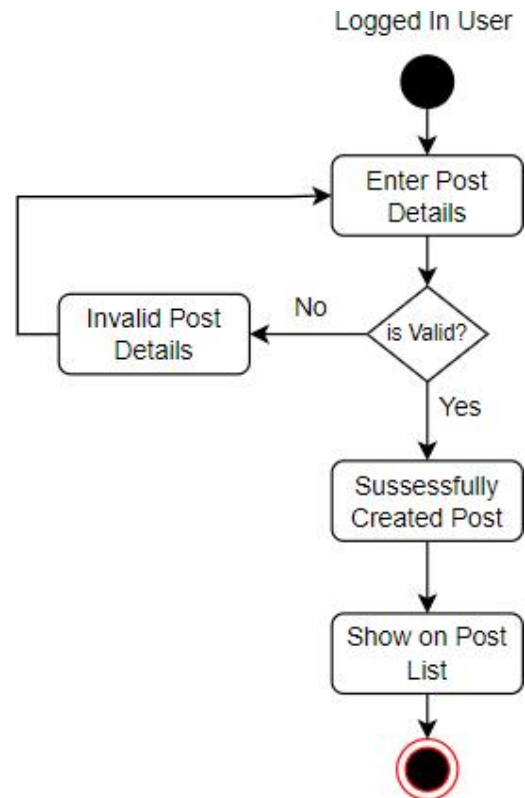


### 3.5 Activity :

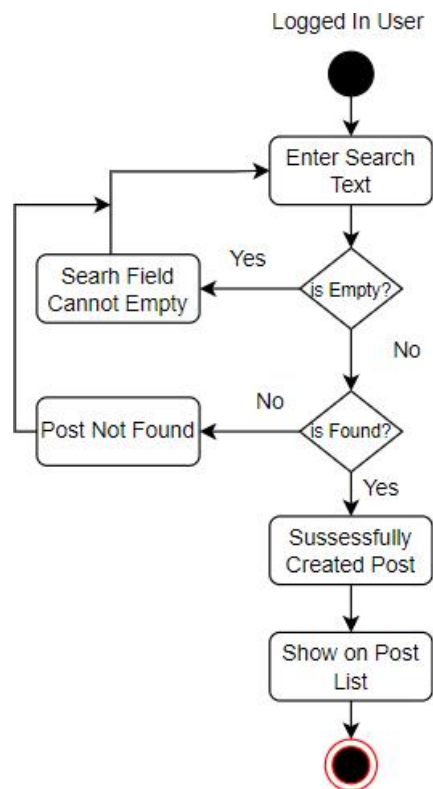
#### 3.5.1 Authenticate



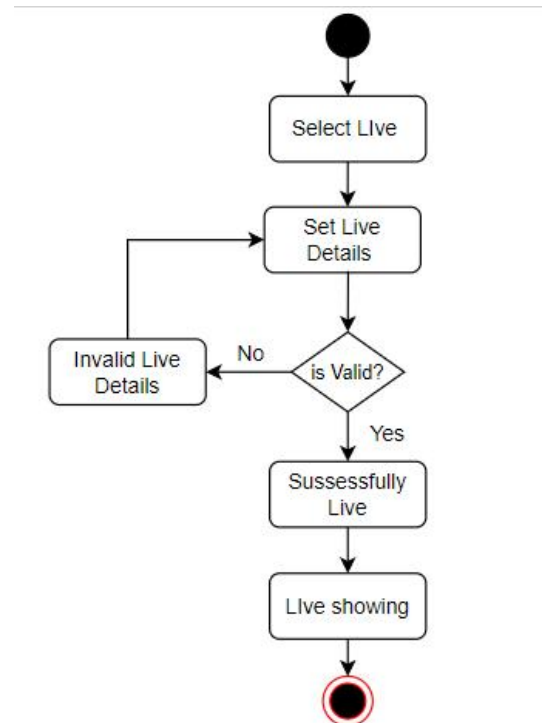
#### 3.5.2 Create Post



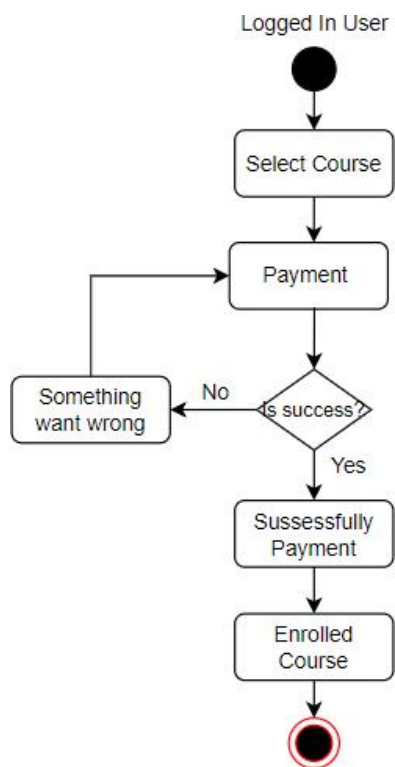
### 3.5.3 Search Post



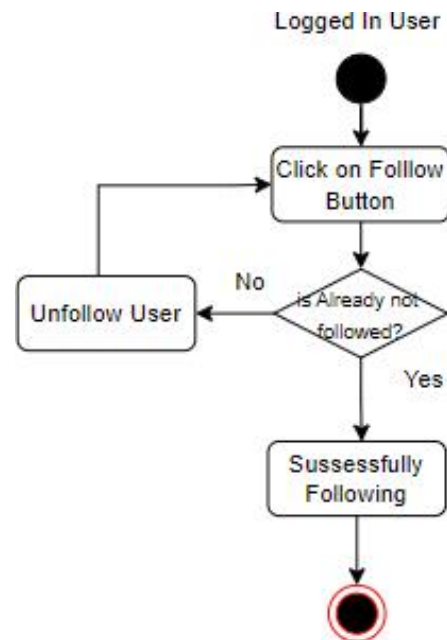
### 3.5.4 Create Live



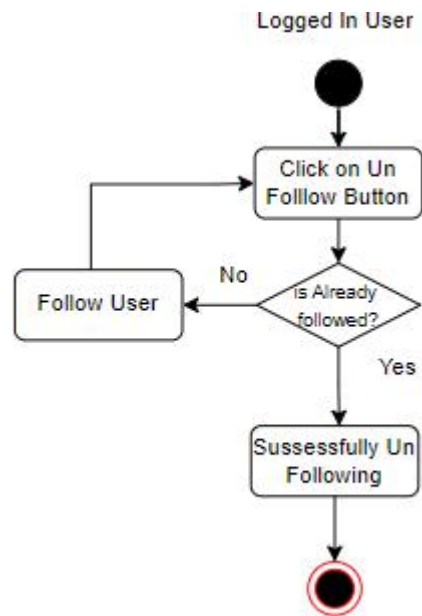
### 3.5.5 Enroll Course



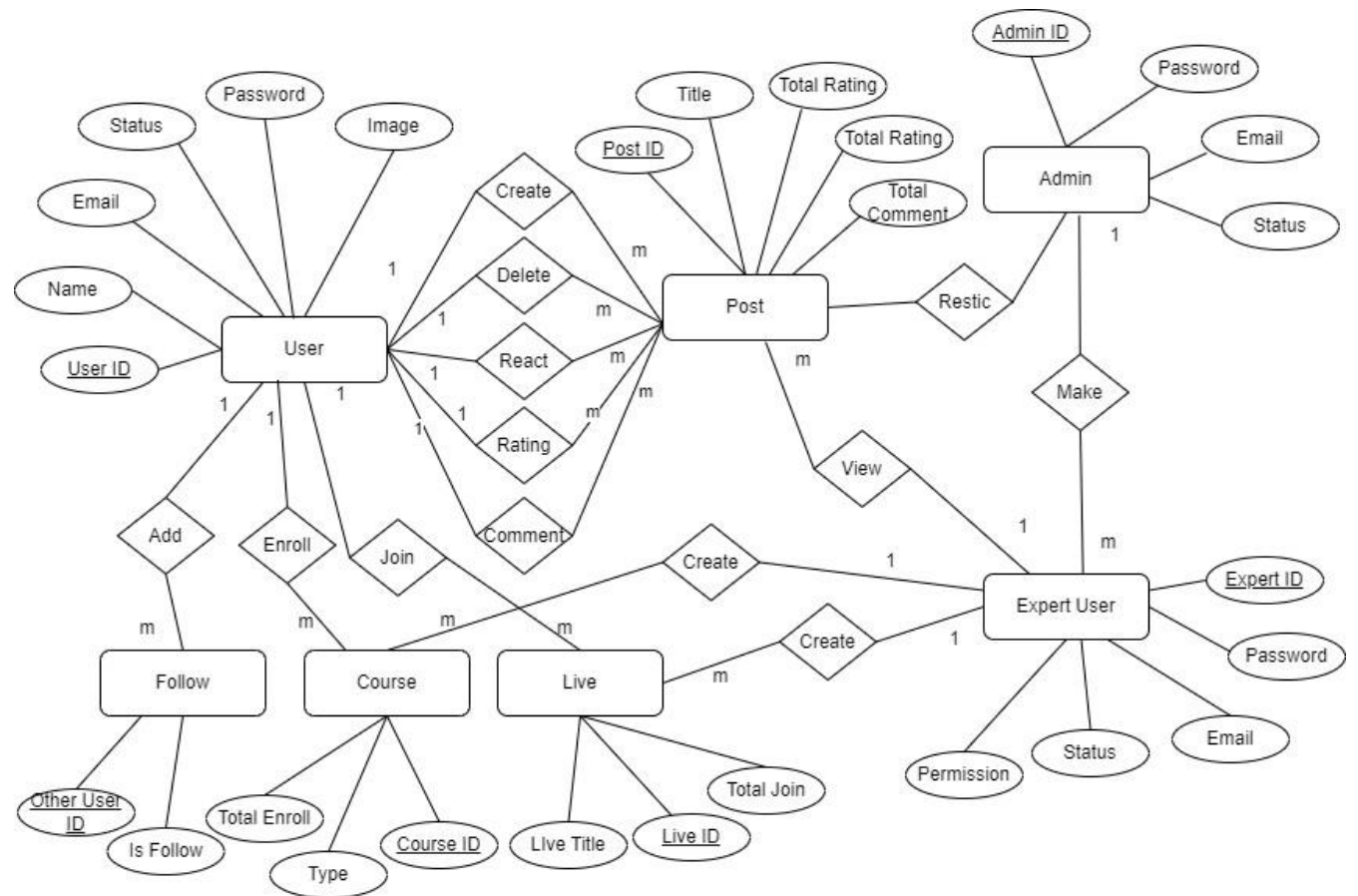
### 3.5.6 AddFollow User



### 3.5.5 UnFollow User

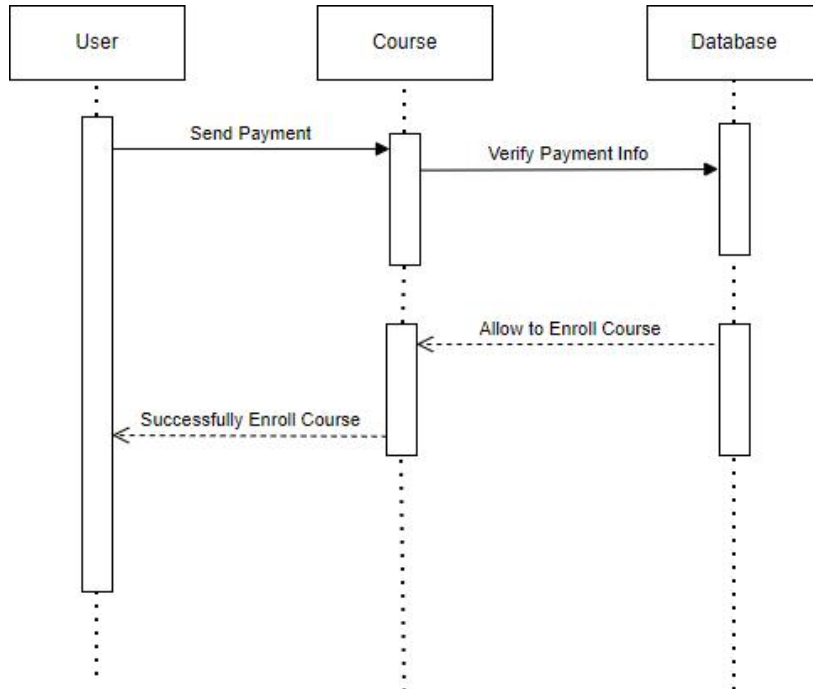


### 3.6 Entity Relationship Diagram (ERD):

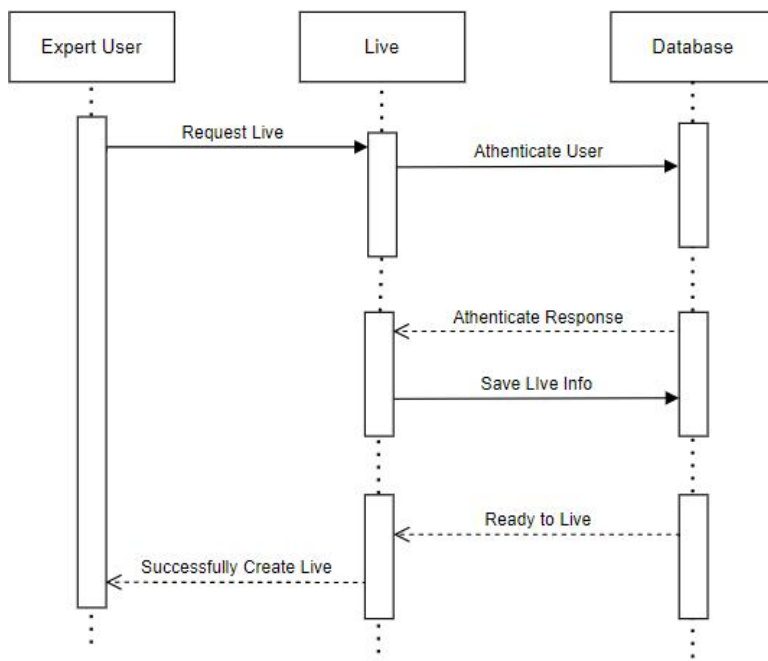


### 3.4 Sequence Diagram:

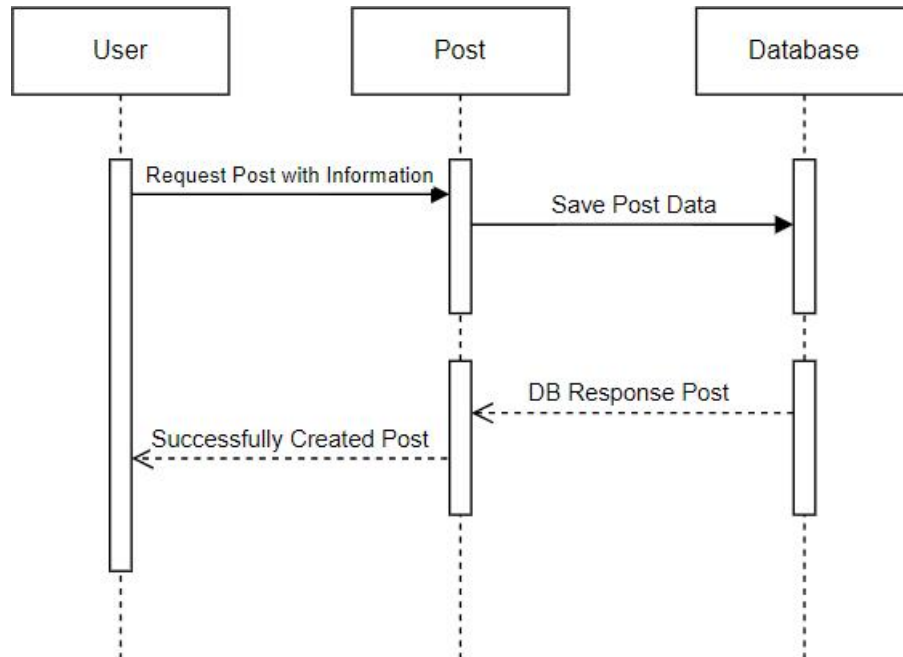
#### 3.6.1 Course Enroll



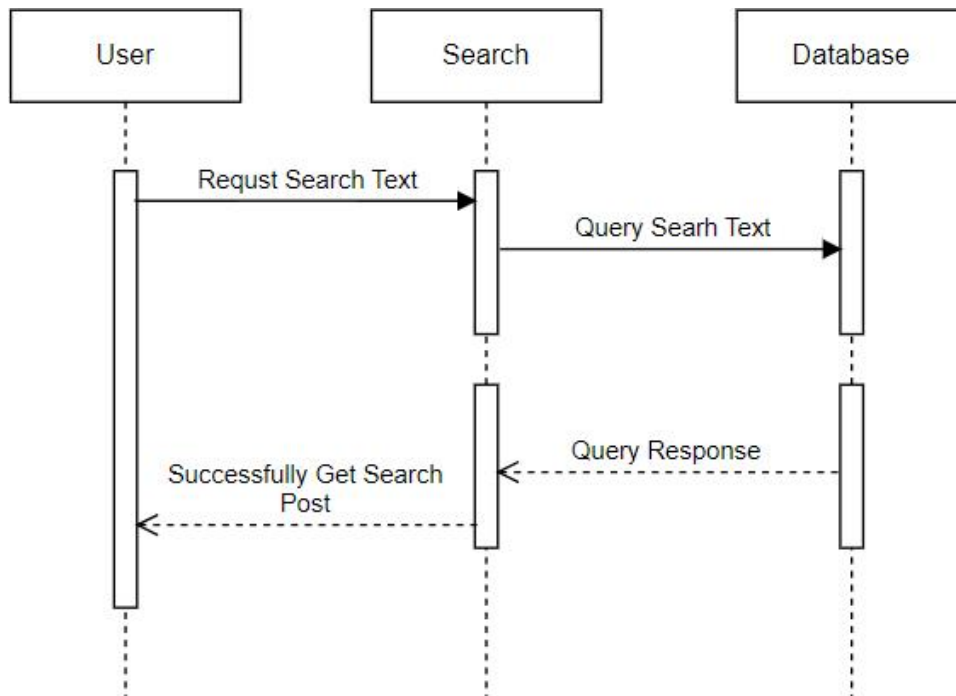
#### 3.6.2 Create Live



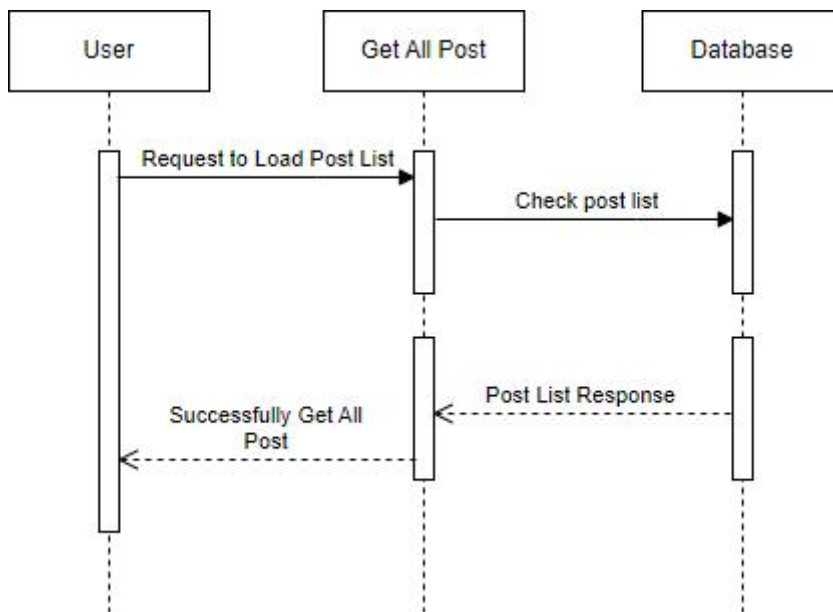
### 3.6.3 Create Post



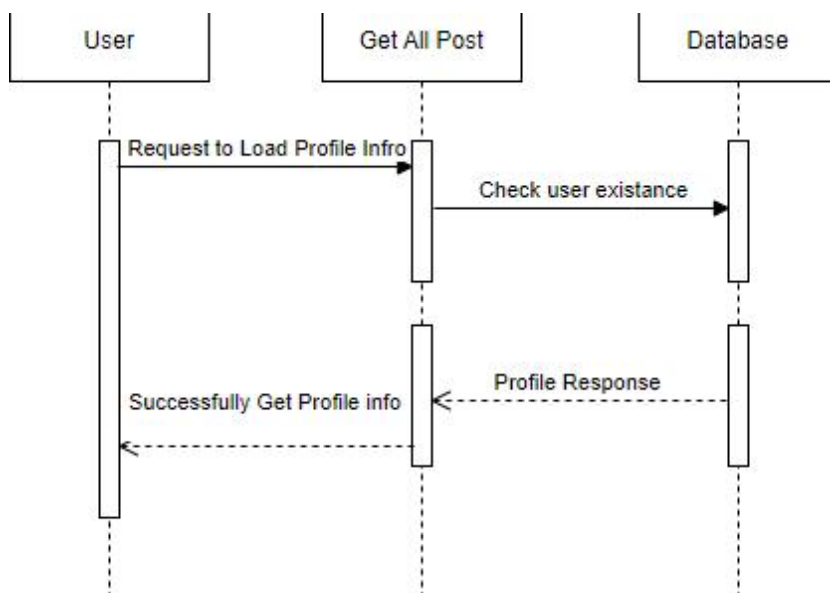
### 3.6.4 Search Post:



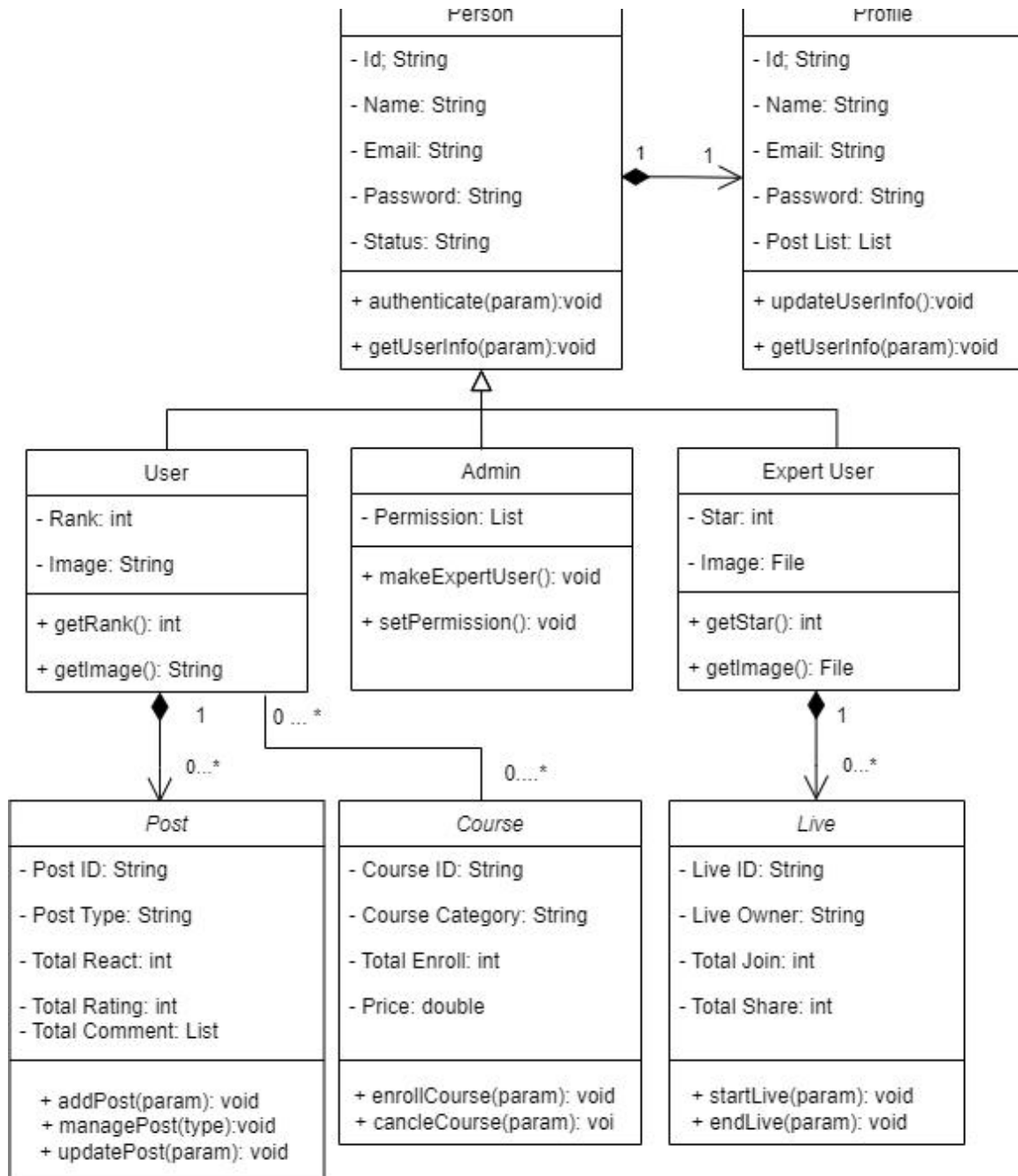
### 3.6.5 Get All Post



### 3.6.6 Get Profile Information



### 3.5 Class Diagram:



## **Chapter 4: Tools and Technologies**

### **4.1 (IDE)**

- Vs Code

### **4.2 Programming Language**

- Dart

### **4.3 User Interface Design**

This project interface is designed with Adobe

### **4.4 Database**

Amazon Cloud & MongoDB

## **Chapter 5: System Testing**

Unit Testing is a software development technique wherein individual units of code are tested in isolation to ensure their correctness and functionality. It involves testing each separate unit of code, such as functions or classes, to verify that they perform as expected. Typically, unit testing is conducted after the completion of the project. Upon conducting unit tests, any errors or bugs discovered are addressed and resolved .

On the other hand, Acceptance Testing is performed before the release of the system to ensure that it meets the specified requirements and is acceptable for use by stakeholders. This testing method involves validating the system's functionality, user interface, and overall performance against predefined criteria. During acceptance testing, any minor errors or discrepancies identified are addressed promptly to ensure a smooth and error-free user experience. Once all identified issues are resolved, the system is deemed ready for release and deployment for use by end-users.

### **5.1 Testing Features:**

- 5.1.1 Authenticate
- 5.1.2 Get All Post
- 5.1.3 Create New Post
- 5.1.4 Add Rating
- 5.1.5 Write Comment
- 5.1.6 Get Profile Information
- 5.1.7 Add Follow
- 5.1.8 Remove Follow
- 5.1.9 Search Post

5.1.10 Create Live

5.1.11 Enroll Course

**Case for book Response: 5.1.2:**

Feed-back

## **5.2 Testing Strategies**

### **5.2.1 Test Approach:**

To ensure the highest quality in our project, we adopt a comprehensive test approach that includes multiple testing levels, various testing types, and a well-configured testing environment.

#### **5.2.1.1 Test Levels:**

The testing process involves multiple stages, such as unit testing, integration testing, system testing, and user acceptance testing. Each stage is carefully executed to validate different aspects of the system's functionality and performance.

#### **5.2.1.2 Test Types:**

Various testing stages are part of the strategy, including unit testing, integration testing, system testing, and user acceptance testing. Time allocation for these testing activities is balanced, with 50 percent dedicated to unit testing and the remaining 50 percent distributed among integration testing, system testing, and user acceptance testing.

#### **5.2.1.3 Testing Environment:**

To facilitate thorough testing, a suitable testing environment has been established, encompassing both hardware and software requirements. This environment is meticulously configured to replicate real-world scenarios and ensure accurate assessment of the system's capabilities and performance.

### **5.2.1:**

All Passes

## 5.2 Testing-Schedule

### 5.2.1 Get All Post

| Test Case ID | Test Title         | Steps | Action                                    | Action Result                        | Expected System Response                          | Pass/Fail |
|--------------|--------------------|-------|-------------------------------------------|--------------------------------------|---------------------------------------------------|-----------|
| TC002        | Retrieve All Posts | 1     | Navigate to the homepage or posts page.   | Homepage or posts page is displayed. | System should display the homepage or posts page. | Pass      |
|              |                    | 2     | Click on the "Get All Posts" button/link. | All posts are displayed to the user. | System should retrieve and display all posts.     | Pass      |

### 5.2.2 Create New Post

| Test Case ID | Test Title      | Steps | Action                                         | Action Result                      | Expected System Response                       | Pass/Fail |
|--------------|-----------------|-------|------------------------------------------------|------------------------------------|------------------------------------------------|-----------|
| TC006        | Create New Post | 1     | Navigate to the create post page.              | Create post page is displayed.     | System should display the create post page.    | Pass      |
|              |                 | 2     | Enter the post details (title, content, etc.). | Post details are entered.          | System should accept the post details.         | Pass      |
|              |                 | 3     | Click the "Post" button.                       | New post is created and displayed. | System should create and display the new post. | Pass      |

### 5.2.3 Search Post

| Test Case ID | Test Title  | Steps | Action                                 | Action Result                 | Expected System Response                                       | Pass/Fail |
|--------------|-------------|-------|----------------------------------------|-------------------------------|----------------------------------------------------------------|-----------|
| TC008        | Search Post | 1     | Enter a search term in the search bar. | Search term is entered.       | System should accept the search term input.                    | Pass      |
|              |             | 2     | Click the "Search" button.             | Relevant posts are displayed. | System should display relevant posts based on the search term. | Pass      |

#### 5.2.4 Enroll Online Course

| Test Case ID | Test Title              | Steps | Action                                  | Action Result                        | Expected System Response                          | Pass/Fail |
|--------------|-------------------------|-------|-----------------------------------------|--------------------------------------|---------------------------------------------------|-----------|
| TC010        | Enroll in Online Course | 1     | Navigate to the online courses section. | Online courses section is displayed. | System should display the online courses section. | Pass      |
|              |                         | 2     | Select a course.                        | Course is selected.                  | System should accept the course selection.        | Pass      |
|              |                         | 3     | Click on the "Enroll" button.           | User is enrolled in the course.      | System should enroll the user in the course.      | Pass      |

#### 5.2.5 Create Live

| Test Case ID | Test Title          | Steps | Action                                 | Action Result                                    | Expected System Response                                      | Pass/Fail |
|--------------|---------------------|-------|----------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-----------|
| TC011        | Create Live Session | 1     | Navigate to the live sessions section. | Live sessions section is displayed.              | System should display the live sessions section.              | Pass      |
|              |                     | 2     | Click on "Create Live Session".        | Live session creation form is displayed.         | System should display the live session creation form.         | Pass      |
|              |                     | 3     | Enter session details.                 | Session details are entered.                     | System should accept the session details.                     | Pass      |
|              |                     | 4     | Click the "Start Live" button.         | Live session is created and starts broadcasting. | System should create and start broadcasting the live session. | Pass      |

### 5.2.5 Get Profile Information

| Test Case ID | Test Title              | Steps | Action                              | Action Result                     | Expected System Response                                           | Pass/Fail |
|--------------|-------------------------|-------|-------------------------------------|-----------------------------------|--------------------------------------------------------------------|-----------|
| TC007        | Get Profile Information | 1     | Navigate to the profile page.       | Profile page is displayed.        | System should display the profile page.                            | Pass      |
|              |                         | 2     | Click on "Get Profile Information". | Profile information is displayed. | System should retrieve and display the user's profile information. | Pass      |

### 5.2.6 Add Follow

| Test Case ID | Test Title | Steps | Action                              | Action Result                        | Expected System Response                        | Pass/Fail |
|--------------|------------|-------|-------------------------------------|--------------------------------------|-------------------------------------------------|-----------|
| TC009        | Add Follow | 1     | Navigate to another user's profile. | Another user's profile is displayed. | System should display the other user's profile. | Pass      |
|              |            | 2     | Click on the "Follow" button.       | User is marked as followed.          | System should mark the user as followed.        | Pass      |

## Chapter 6: User Manual

### 6.1 Splash / Intro



### 6.2 Registration

A mobile app registration form on a dark blue background. The form includes the following fields and options:

- FULL NAME**: Text input field containing "Tanim".
- GENDER**: Dropdown menu with "Male" selected.
- EMAIL**: Text input field containing "Tanim@gmail.com".
- DATE OF BIRTH**: Three dropdown menus for day (10), month (02), and year (1950).
- PHONE NUMBER**: Text input field with a country code dropdown (+880) and a number field (000-000-00-000).
- PASSWORD**: Text input field with masked characters (\*\*\*\*\*). Below it is a small note: "Use 6 characters with a mix of letters, numbers & symbols."
- AGAIN PLEASE**: Text input field with masked characters (\*\*\*\*\*).
- next**: A yellow button at the bottom right.

A yellow arrow points to the "AGAIN PLEASE" field.

### 6.3 Login

A mobile app login screen on a dark blue background. The form includes the following elements:

- ghapfy**: The app logo in yellow at the top.
- Email**: A text input field containing "Tanim@gmail.com".
- Password**: A text input field with masked characters (\*\*\*\*\*). To the right is a yellow eye icon to toggle visibility.
- Forgot password?**: A link below the password field.
- Log in**: A blue button.
- or**: Text centered below the login button.
- Sign up with**: A yellow button.
- Social Media**: A row of three circular icons for Facebook, Twitter, and Google+.

A yellow arrow points to the social media icons.

## 6.4 Get All Post



## 6.5 Get Profile Information

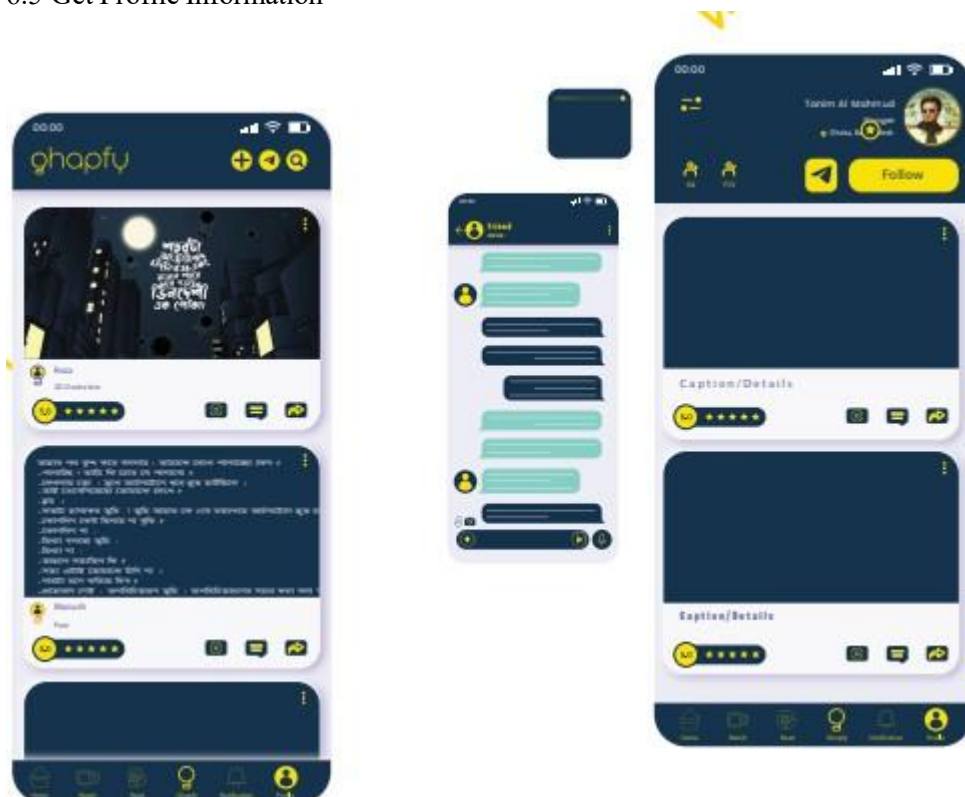


Figure 1 illustrates the Reza app interface through three mockups. The first mockup shows the home screen with a post by 'Reza' featuring a night cityscape image and a list of text in Hindi. The second mockup shows the settings screen with options like 'Settings & Privacy', 'Account Settings', and 'About Support'. The third mockup shows the post creation screen with a 'Create Post' button and a 'Post' button.

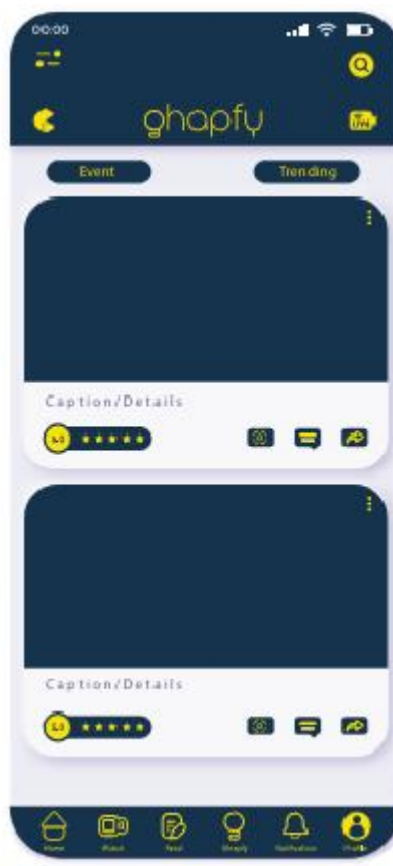
## 6.8 Write Comment



## 6.9 Search Post



## 6.10 Create Live



## 6.11 Enroll Course



## Chapter-7:

### Summary

#### 7.1 GitHub-Link:

click: [Click Here](#)

#### 7.2 Limitations:

Machine learning not applied for give user proper suggestion

#### 7.3 Future Scope

The future scope of the "Ghapfy" project envisions several advancements and enhancements to further elevate the platform's capabilities and user experience. The following areas outline potential directions for future development:

##### 7.3.1 Enhanced Content Creation Tools:

- **Advanced Editing Features:** Introducing more sophisticated video and image editing tools, such as AI-powered filters, automated editing suggestions, and more intricate customization options.
- **Augmented Reality (AR) and Virtual Reality (VR):** Integrating AR and VR capabilities to allow users to create immersive content, enhancing engagement and interactivity.

##### 7.3.2 Expanded Educational Resources

- **More Courses and Tutorials:** Expanding the library of online courses and tutorials to cover a wider range of topics and skill levels, including advanced content creation techniques and emerging digital trends.
- **Industry Expert Partnerships:** Collaborating with more industry experts and celebrities to offer exclusive guidance and masterclasses, providing users with unique insights and mentorship opportunities.

##### 7.3.2 Improved User Interaction and Community Features

- **Community Building Tools:** Developing tools to facilitate better community interactions, such as group discussions, collaborative projects, and peer-to-peer mentoring.
- **Gamification:** Implementing gamification elements like badges, leader

## Appendix A

### Reference

Link:

<https://www.tiktok.com/explore>

<https://play.google.com/store/apps/details?id=to.likey.android&hl=en>

<https://www.techloy.com/5-must-have-apps-as-a-content-creator/>

<https://www.mightynetworks.com/resources/content-creator-platforms>

<https://www.linkedin.com/pulse/importance-mobile-app-content-creators-jithin-sooppy-/>

## Plagiarism Test

201-35-523

### ORIGINALITY REPORT

|                  |                  |              |                |
|------------------|------------------|--------------|----------------|
| <b>20%</b>       | <b>17%</b>       | <b>2%</b>    | <b>10%</b>     |
| SIMILARITY INDEX | INTERNET SOURCES | PUBLICATIONS | STUDENT PAPERS |

### PRIMARY SOURCES

|          |                                                              |            |
|----------|--------------------------------------------------------------|------------|
| <b>1</b> | <b>dspace.daffodilvarsity.edu.bd:8080</b><br>Internet Source | <b>10%</b> |
| <b>2</b> | <b>123dok.com</b><br>Internet Source                         | <b>2%</b>  |
| <b>3</b> | <b>Submitted to George Bush High School</b><br>Student Paper | <b>2%</b>  |
| <b>4</b> | <b>Submitted to islamicuniversity</b><br>Student Paper       | <b>1%</b>  |