



Project Defense (Spring 2023)

CSE 498: Project & Presentation

Project Name: Advanced Social Media Platform (Web)

A final year project report presented to the City University in partial fulfillment of the requirements of the degree of Bachelor of Computer Science and Engineering.

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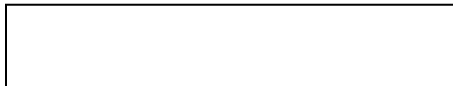
CITY UNIVERSITY, DHAKA, BANGLADESH

16 JUN, 2023

DECLARATION

This is to certify that the project titled “**Advanced Social Media Platform (Web)**” is the result of our study in partial fulfillment of the B.Sc. Engineering degree under the supervision of **Fahim Shahriar**, Lecturer, Department of Computer Science and Engineering (CSE), City University, Bangladesh. It is also hereby declared that this project or any part of it has not been submitted elsewhere for the award of any degree.

Signature of Author's



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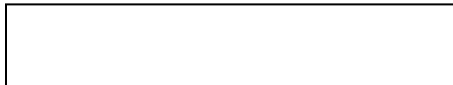
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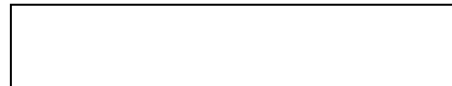
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Sincerely,

Rubayet Nazim Shoud

&

Fahad Nur Akash

ABSTRACT

The main goal of the project, titled "**Advanced Social Media Platform (Web)**" is to make a safe & secure social media platform. Nowadays Facebook, Twitter, Instagram, etc social media platforms are part and parcel in our daily life. In Social Media platforms people share their emotions, happiness, events, news, Educational use, and business AD & used to connect with each other. Content Creators create content videos & earn from social media. Fake Accounts, Fake profile information, and violation makes social chaos & many crimes are happening through social media. The administration can't even find criminals. Criminals use fake accounts so that it's hard to identify them. In this situation, we can't stop using social media but need a safe & real social media platform. For many other reasons, we are creating a new social media platform, where people can use one account verified by his or her NID & all pieces of information will be real. We think Our social media platform will be the solution to avoid this kind of problem and will be safe for every user.

Keywords: Social Media Platform, NID Verification, User Interface(UI), Time-based Message, Voice Comment, E-book.

ABBREVIATION

NID: National Identity card

ID: Identity Document

Webster: Name of your social media platform

UI: User Interface

XSS: Cross-site scripting

CDN: Content Delivery Network

DOM: Document Object Model

GDPR: General Data Protection Regulation

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CHAPTER 1

Introduction

1.1 Introduction

Social media platforms were used by one-in-three people worldwide and more than two-thirds of all internet users. Social media has changed the world. The rapid and vast adoption of these technologies is changing how we find partners, access information from the news, and organize to demand political change[1].

People believe in social media a lot. But most of the time people get harassed. Fake accounts and fake identification creates social media crimes. People use multiple accounts & fake names on social media, and sometimes it's very hard to identify them. Fake Accounts and violation makes social chaos & many crimes are happening through social media.

The administration can't even find criminals for fake accounts & information. To reduce fake accounts & fake information, we proposed a new social media platform, where people can use one account verified by his or her NID & all pieces of information will be real. Also, have some new features too.

1.2 Problem Statement

To make a NID-verified social media platform with some new features & facilities.

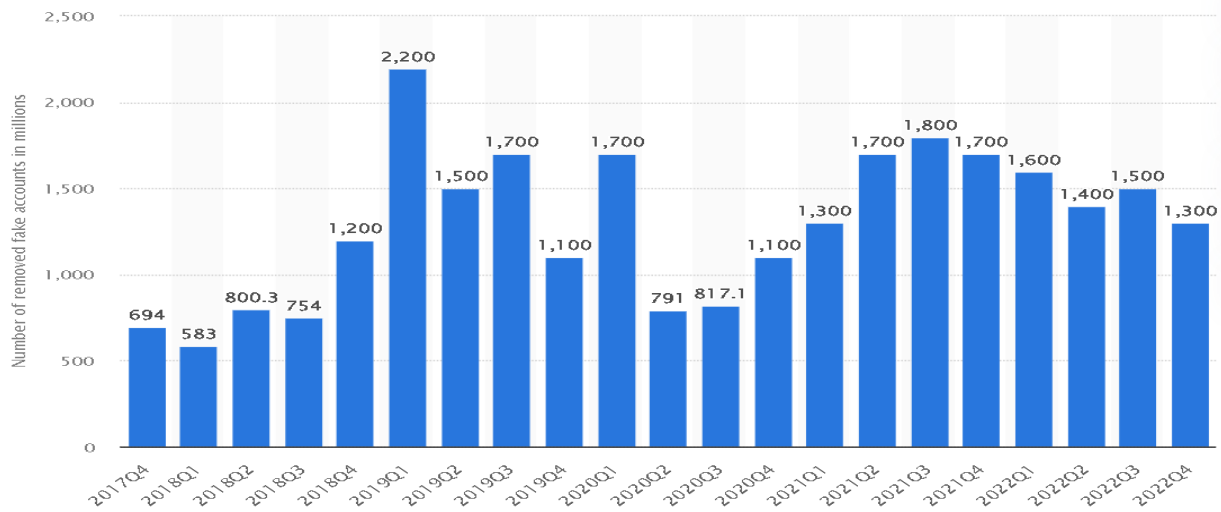
On that social media website, users need to verify their NID card to open an Account. If their NID is valid, they can go through the next step & then the user can edit their user name & other personal details. After that user needs to add a password & user name then the account is ready to use.

We have to create the full site both the front-end design and the functional part back-end.

1.3 Background & Motivation

1. **Reduce Fake Accounts:** In the fourth quarter of 2022, Facebook took action on 1.3 billion fake accounts, down from 1.5 billion in the previous quarter[2].

However, Facebook took action on a huge amount of fake Accounts but they don't take any action against creating fake accounts.



© Statista 2023

Fig-1.Number of fake accounts on Facebook(Statista 2023)

Instagram has an estimated 95 million fake accounts. With a total user base of around 1 billion, that means roughly 1 in 10 Instagram accounts are fake[3].

Twitter says it has 238 million active monthly users, and that about 5% of the accounts it sells ads against are fake either spam or bots.

2. Reduce Fake Profile Information:

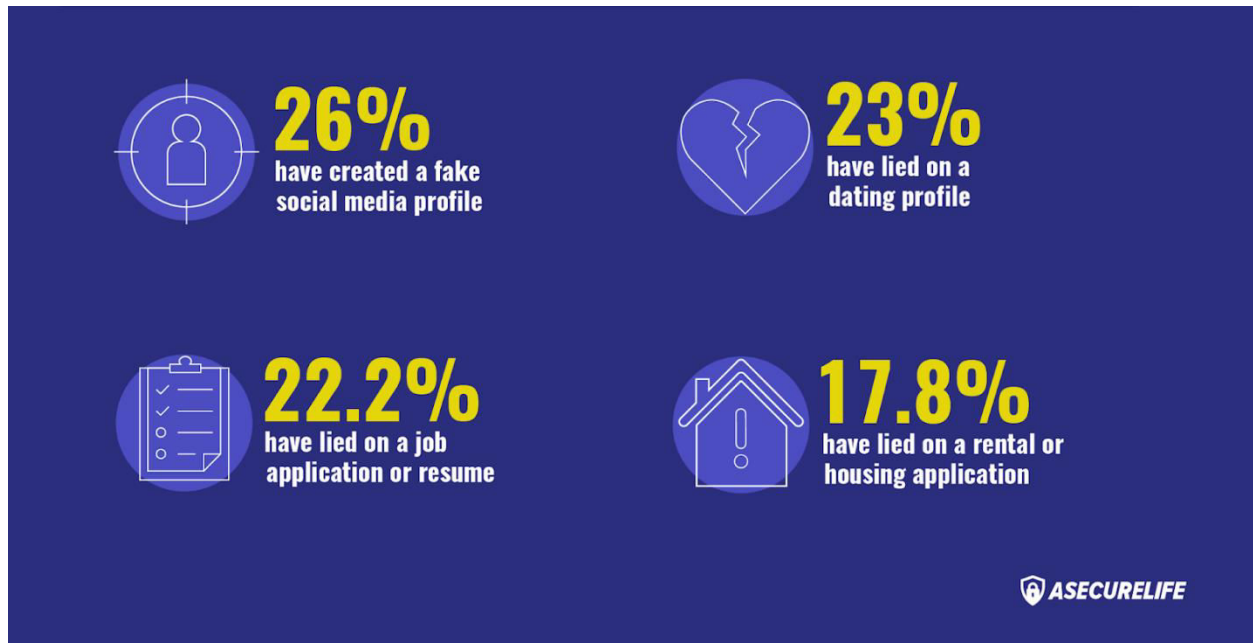


Fig-2.Users have created fake profiles somewhere (Asecurelife Servy)

lots of people who were surveyed admitted to lying on housing applications, resumes, and dating profiles. Knowing this makes the future of background checks seem bright[4].

Fake accounts are doing crimes like making threats, bullying, harassing, and stalking others online. While much of this type of activity goes unpunished or isn't taken seriously, victims of these types of crimes frequently don't know when to call the police[5]. Sometimes police can't even detect criminals for using Fake Accounts and Fake information by the Criminals.

To reduce Fake Accounts, Fake profile information we badly feel to have such kind of a platform that we are thinking.

1.4 Objective

1. Fake account free social media platform.
2. Fake profile information free social media.
3. Motivate users to use real accounts.
4. Motivate users to use real profile information.
5. Reduce crimes in social media.
6. To identify criminals, who have done crimes on social media.
7. Reduce harassment & blackmail on social media.
8. Reduce content plagiarism.
9. Real account & profile information will help find jobs or businesses.
10. Real account & profile information will help find the perfect life partner.

1.5 Purpose/Why do we choose this project:

1. To Reduce Fake Accounts.
2. To Reduce Fake Profile Information.
3. To Reduce Crimes in Social Media.
4. To Detect Social Media Criminals.
5. To Make a Real Social Media World.

CHAPTER 2

Literature Review

2.1 Introduction

Social media platforms have revolutionized communication and interaction on a global scale. As the popularity of social media continues to grow, understanding the existing literature on the subject becomes imperative for designing and developing effective social media platforms. This literature review aims to provide an overview of the key trends, challenges, and impacts associated with social media platforms.

2.2 Related Work

Trends in Social Media Platforms:

User Engagement: Research suggests that user engagement is a critical factor for the success of social media platforms. Studies explore techniques such as gamification, personalization, and social incentives to enhance user engagement and promote user loyalty.

Mobile Usage: The rise of mobile devices has significantly influenced social media platforms. Mobile-centric features, such as location-based services and mobile advertising, have emerged as key trends to facilitate seamless user experiences.

Visual Content: Visual content, including images and videos, has gained prominence on social media platforms. Researchers emphasize the importance of visual storytelling, user-generated content, and visual analytics in enhancing engagement and user experience.

Challenges in Social Media Platforms:

Privacy and Security: The issue of user privacy and security remains a major concern for social media platforms. The literature discusses topics such as data breaches, information disclosure, and the ethical use of user data, highlighting the need for robust privacy protection mechanisms.

Online Harassment and Cyberbullying: Studies highlight the prevalence and impact of online harassment and cyberbullying on social media platforms. Researchers explore approaches like content moderation, automated detection systems, and user reporting mechanisms to mitigate these challenges.

Information Credibility and Fake News: The proliferation of misinformation and fake news poses significant challenges for social media platforms. Scholars investigate methods for detecting and mitigating the spread of false information, including algorithmic approaches, user flagging systems, and fact-checking initiatives.

Impact of Social Media Platforms:

Social Influence and Opinion Formation: Social media platforms have a profound impact on shaping public opinion, mobilizing social movements, and influencing political discourse. Researchers analyze the dynamics of social influence, information diffusion, and collective decision-making in the context of social media platforms.

Business and Marketing: Social media platforms have transformed the landscape of business and marketing. Literature explores the role of social media in brand management, customer engagement, influencer marketing, and social commerce, providing insights for platform development.

Mental Health and Well-being: The impact of social media on mental health and well-being is a topic of growing concern. Scholars investigate the relationship between social media use and issues like depression, anxiety, and body image concerns, offering recommendations for promoting a healthier online environment.

2.2.1 Other vs Webster

Techniques & technologies used in Facebook, LinkedIn, Twitter, and Webster:

	Twitter	Facebook	LinkedIn	Webster
Private/Public	Twitter is mostly used for public communication. If user accounts are not protected, most of the data is publicly visible.	Facebook data is considered more private. Public profiles show more data.	LinkedIn is used for public professional networking & job searching.	For General, professional & job-searching communication. It's NID verified account, all other user's real data will be visible if they want.
Dynamic Nature of Content	Twitter content is dynamic & changing	Facebook content is highly dynamic & changing	LinkedIn data is less dynamic & used live data for identification	Content is dynamic & changing, live data will have used for job-related accounts.
Unique identifiers	Unique user names & can be used to link data, but user names can be changed.	Other identifiers need to link data, While there are user IDs these are usually not known to users.	A unique alphanumeric ID is assigned by the site, which can be customized.	NID number will have used as a unique identifier, the name will have changed by the users if they want.

2.1.2 Limitations

Feature	Twitter	Facebook	LinkedIn	Webster
NID verification	NO	NO	NO	YES
Time-Based messaging	NO	NO	NO	YES
Real Identification	NO	NO	NO	YES
Voice Comment	NO	NO	NO	YES
E-book site	NO	NO	NO	YES
E-commerce site	NO	YES	NO	YES
Theme(dark, light, dream, color)	2	2	2	3

Chapter 3

Materials & Methods

3.1 Methodology

1. **Requirements Gathering:** Begin by gathering detailed requirements for our platform. Understand the specific features, functionality, and security measures required for NID verification and user profile management.

2. **Database Design:** Design a database schema to store user information securely. Define the necessary tables, fields, and relationships to accommodate user-profiles and NID data. Ensure appropriate data encryption and privacy measures are implemented.

3. **User Registration and Login:** Develop a user registration process that captures user details, including the NID number. Implement secure login functionality using strong authentication mechanisms, such as passwords, two-factor authentication, or biometrics.

4. **NID Verification:** Integrate with a reliable and authorized NID verification service or API provided by the relevant government authority. This allows us to validate the authenticity of NID numbers provided by users. Implement the necessary logic to send NID information to the verification service and process the response.

5. **User Profile Management:** Provide an interface for users to view and manage their profiles. Allow users to update personal information, profile pictures, and other relevant details. Ensure appropriate access controls and data validation mechanisms are in place to maintain data integrity.

6. **Data Storage and Security:** Implement secure data storage practices to protect user information and NID data. Use encryption techniques to safeguard sensitive data in the database. Regularly back up the database and implement security measures to prevent unauthorized access.

7. Privacy and Compliance: Ensure compliance with privacy regulations and laws governing the storage and use of personal data, such as GDPR or local data protection regulations. Obtain necessary consent from users for data collection and usage.

8. User Interface and Experience: Design an intuitive and user-friendly interface for users to navigate and interact with the platform. Consider factors like responsiveness, accessibility, and ease of use.

9. Testing and Quality Assurance: Conduct thorough testing to identify and fix any issues or vulnerabilities in the platform. Perform functional testing, security testing, and usability testing to ensure a robust and reliable system.

10. Deployment and Maintenance: Deploy the platform to a secure hosting environment. Continuously monitor and maintain the system, applying security patches and updates as necessary. Provide ongoing support and address user feedback to improve the platform's performance and functionality.

At the very beginning of our project users need to log in or register. If the user already has an account then they need to log in with the user name & password.

Otherwise, the user needs to register with NID verification & it will be checked whether the NID was valid or not or already registered.

After checking that, if the user has a valid NID then needs to set a username & password. Then the user can simply log in to their account. If the NID is not registered need to register again.

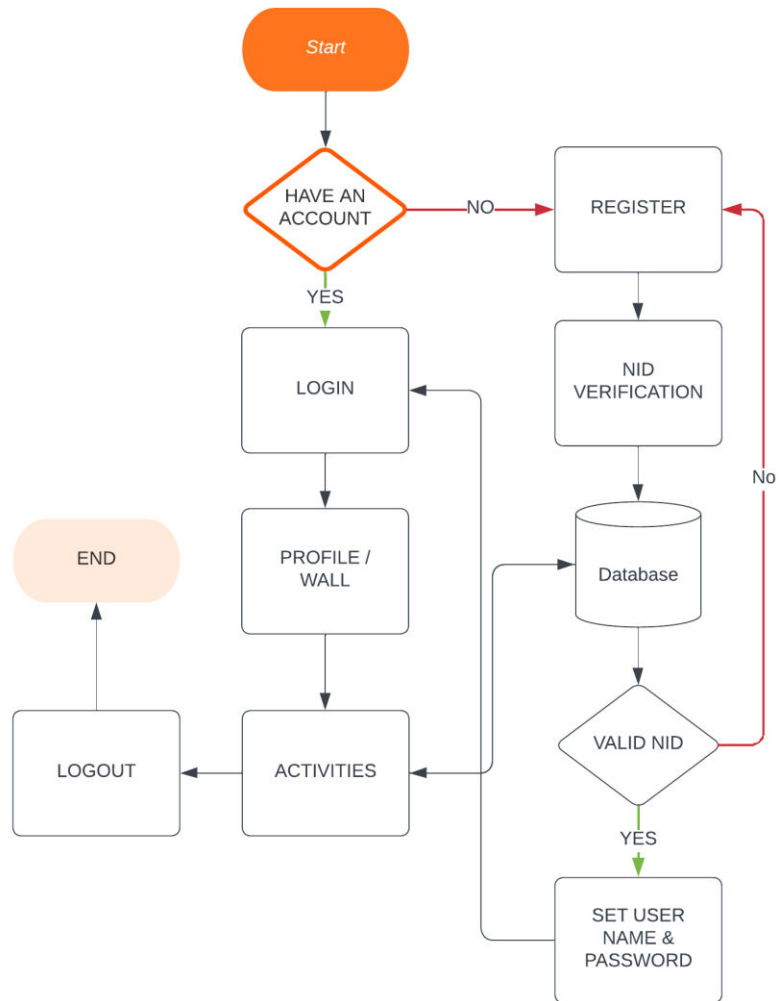
Successfully login users can share their activities, contact other users, read e-books, and enjoy posts, videos, audio, etc they want. The user can log out at any time to finish their use session.

If a user has any account at any time can log in using his username & password.

A flowchart has been given to describe the full process:

WORK_Flowchart

rubayet | June 8, 2023



3.1.1 Workflow Diagram

3.2 Materials

3.2.1 Requirements

3.2.1.1 Software & Hardware Requirements For User:

Hardware:

Computer, Mobile, Tab, etc.

Software:

Operating System: Platform Independent.

Browsers :

Responsive for almost every browser.

Network:

Must have an internet connection.

3.2.1.2 Software & Hardware Requirements For The Developers:

Hardware:

Computer & Computer Accessories, Internet Connection

Software

1. Visual Studio Code/ Sublime text3
2. Xampp
3. SmartDraw
4. Adobe Photoshop
5. Google Chrome
6. Notepad
7. Notepad++
8. TestRail
9. Xray

Icons

Material UI Icons

3.2.2 Used Language

1. Front-end: JavaScript-ReactJS.
2. Backend: NodeJS, ExpressJS.
3. Database: MongoDB.

3.2.3 Why Javascript

Client-Side Interactivity: JavaScript is a powerful client-side scripting language that allows for dynamic and interactive web experiences. React, being a JavaScript library, enhances this interactivity by providing a component-based architecture for building user interfaces. It allows developers to create reusable UI components that can be easily updated and rendered efficiently.

Efficiency and Performance: React utilizes a virtual DOM that helps optimize rendering and improves performance. It efficiently updates only the necessary parts of the user interface when changes occur, reducing unnecessary re-rendering and improving overall efficiency.

Component Reusability: React promotes the concept of reusable components, which leads to more modular and maintainable code. Developers can create independent components and reuse them across different parts of the application. This reusability can save development time and effort.

Large Community and Ecosystem: JavaScript and React have vibrant and active communities with extensive resources, tutorials, and libraries available. This extensive ecosystem provides developers with a wide range of tools and support, making it easier to find solutions and collaborate with other developers.

Compatibility: JavaScript runs on almost all modern web browsers, making it a versatile language for developing cross-platform web applications. React, being a JavaScript library, can be easily integrated into existing web projects without major compatibility issues.

React Native: If you plan to develop a mobile app in the future, React Native, a framework based on React, allows you to leverage your existing React knowledge to build native mobile

applications for both iOS and Android platforms. This can potentially save development time and effort by sharing code between web and mobile applications.

ReactJS vs others:

Feature	ReactJS	AngularJS	Vue.js
Popularity	Widely adopted	Popular	Growing
Learning Curve	Moderate	Steeper	Relatively easier
Performance	Efficient rendering	Good performance	Good performance
Component Reusability	Highly reusable	Reusability supported	Reusability supported
Community and Ecosystem	Large and active	Large and active	Growing community
Mobile Development	React Native	Ionic, NativeScript	Vue Native
Maturity	Mature	Mature	Rapidly evolving
Developer Productivity	High productivity	Moderate productivity	Moderate productivity
Company Backing	Facebook	Google	Community-driven
Scalability	Scalable	Scalable	Scalable

3.2.4 Working Principles

1. **Creating Accounts:** Creating an account is a very important part of a social media platform. We can reduce Fake accounts if we do priority at the beginning of an account. Without Proper identification, it's very easy to create a fake account. That's the main part, where we are working.

Users can only open their accounts by using their NID card. One NID and one account will help to reduce the multiple accounts of a user. In the future, It can be used as an online voting system.

From NID, the name and the NID number will be scanned & the name will be used as the profile name. The NID number will be saved in the database for future actions & will not show in the profile.

2. **Profile Information:** Profile Information is another important thing in social media because now people used to judge people by seeing profile information. Sometimes people use fake information and use any company or educational institution's name in the profile information but actually, they do not belong there.

To reduce wrong profile information users need to verify that, they work there. Every company or educational institution has an ID for its employees and students. ID will be used for adding information to users' profiles.

3. **Content Plagiarism:** Content creators create content to entertain users. Sometimes their content has been theft but they can't take any action & they don't have any proof that the content has created by him.

For reducing content plagiarism only users can share content & if anyone wants to download content, need permission from the author.

4. **Advanced Messaging:** Time-based messaging system provides users to send messages to the destination in time, the time should be set by the user. Users can set a time when the message should be sent. After setting the time our system starts the countdown, finishing the countdown the message should be sent to the destination user.

However, now many sites are using this system. But this feature in social media messaging platforms should be new for the users

Chapter 4

Users' Engagement & Future

4.1 Future Webster

1. AI (Artificial Intelligence)

AI tools help enhance features of social media platforms and lead social media activities at scale across several use cases, including text and visual content creation, social media monitoring, ad management, influencer research, brand awareness campaigns, and more[3]. In the future, We'll use AI tools for our project to detect content that goes against our Community Standards before anyone reports it & In advertisement and filtering content & searching accounts.

2. Add a Payment system

We'll add a default payment system that supports profile-to-profile money transfers. Users can add or transfer money to their account wallet to another user's profile like bkaash and nagad.

3. Improve UI

Other social media platforms have been improving their UI. We will update our UI over time.

4. Improve security

In social media platform security system is very much important. Users' personal information has to be secure. Nowadays hacking Social media accounts are very known. To avoid this kind of problem we have to update the security system.

5. Content Filter

Various kinds of content are found in social media. Educational, entertainment. Funny, adult 18+, Horror, news, etc. If a content creator wants to update any video then needs to select a category. Users who want to avoid any kind of category can avoid it & users who want to enjoy any kind of category can enjoy it.

6. Islamic Mode

Islamic mode can Filter & avoid all adult content. It will help Muslims to use & enjoy social media platforms.

7. Online Voting System

One NID account helps with various kinds of online surveys and voting. One user can use only one account so one user can be counted as one vote. We reserved this system in our plan.

8. Live Doctor

Live Doctor provides users with instant doctor service. Doctors can open their professional accounts. Users can find doctors by searching with their problems & doctor's name. They can talk to the doctor by text message, live call, or video calling before payment.

4.2 Users' Engagement

The emergence of social media platforms has dramatically altered the role of customers from passive observers of content to active participants, who are now the co-producers and co-creators of content through their online interactions and behaviors.

Behavior that reflects engagement with social media includes customers' creation of, contribution to, or consumption of brand-related content within a social network. Social media content that influences engagement has been conceptualized into three main categories rational (also referred to as an informational, functional, educational, or current event), interactional (experiential, personal, employee, brand community, customer relationship, cause-related), and transactional (also referred to as remunerative, brand resonance, sales promotion)[6].

Three main categories rational (also referred to as an informational, functional, educational, or current event), interactional (experiential, personal, employee, brand community, customer relationship, cause-related), and transactional (also referred to as remunerative, brand resonance, sales promotion), our social media platform will contain all the functionality. So that, people can understand the rumors and the truth.

We will have the user's feedback, live to contact us option. So that, if any user faces any kind of difficulties our technician team will help the user as soon as possible.

4.2.1 Target User

- Adult, who has a NID card.
- Students.
- Job holders.
- Businessman.

4.2.2 Feedback

Taking feedback from users is crucial for improving our social media website. Here are a few methods that can consider for gathering user feedback:

Surveys and Questionnaires: Create online surveys or questionnaires using tools like Google Forms, SurveyMonkey, or Typeform. Design questions to gather specific feedback about user experience, features, suggestions, and overall satisfaction. You can share the survey links through your website, email newsletters, or social media channels.

Feedback Forms: Incorporate feedback forms directly on our website, allowing users to provide feedback easily. Include fields for comments, suggestions, and any specific areas of interest. Ensure the form is easily accessible and prominently displayed on relevant pages.

User Reviews and Ratings: Implement a system where users can leave reviews and ratings for our website or specific features. This can help us to understand what users like and dislike, and identify areas for improvement. Consider integrating platforms like Trustpilot, Capterra, or our custom review system.

User Feedback Buttons: Include a feedback button or widget on our website that users can click to provide feedback or report issues. This can be a floating button or a fixed element visible on every page. Use tools like UserVoice or Hotjar to collect and manage user feedback effectively.

Social Media Listening: Monitor social media platforms for mentions, tags, or comments related to our website. Actively engage with users, respond to their queries, and encourage them to provide feedback openly.

User Testing and Interviews: Conduct user testing sessions with a select group of users. Observe their interactions with our website and ask for their feedback and suggestions. We can also conduct interviews or focus group discussions to gather more detailed insights.

Analytics and Metrics: Utilize website analytics tools like Google Analytics to track user behavior, identify patterns, and uncover potential areas for improvement. Analyze metrics such as bounce rate, session duration, and user flow to gain insights into user engagement and identify potential pain points.

4.2.3 User's data privacy

Data Protection Policies: Develop and communicate a comprehensive data protection policy that outlines how user data is collected, stored, and used. This policy should include information on the types of data collected, purposes of data processing, data retention periods, and the measures taken to protect user data.

Consent and Transparency: Obtain explicit consent from users before collecting any personal information. Clearly explain what data is being collected, how it will be used, and with whom it may be shared. Provide users with control over their privacy settings and allow them to opt-in or out of certain data processing activities.

Secure Data Storage: Implement robust security measures to safeguard user data from unauthorized access, breaches, or misuse. Use encryption techniques to protect sensitive information, both in transit and at rest. Regularly assess and update security protocols to stay ahead of potential threats.

Limited Data Collection: Collect only the necessary data required to provide the intended services and features. Minimize the collection of PII and ensure that any data collected is relevant and legally obtained.

Data Access and Control: Give users control over their own data. Provide options for users to access, modify, or delete their personal information. Offer clear instructions on how users can exercise their data rights and make it easy for them to manage their privacy preferences.

Third-Party Integrations: Be cautious when integrating third-party services or APIs that involve sharing user data. Carefully review the privacy practices of these services and ensure they align with our own data protection policies.

Regular Audits and Compliance: Conduct regular audits to assess compliance with privacy regulations such as the GDPR or applicable local data protection laws. Stay updated on relevant regulations and adapt our practices accordingly.

User Education and Communication: Educate users about data privacy and security best practices. Provide clear and accessible information about our data protection measures and regularly communicate any updates or changes to our privacy policies.

Anonymization and Aggregation: Whenever possible, aggregate and anonymize user data to protect individual privacy. Utilize data in a way that prevents the identification of specific individuals unless explicitly authorized by the user.

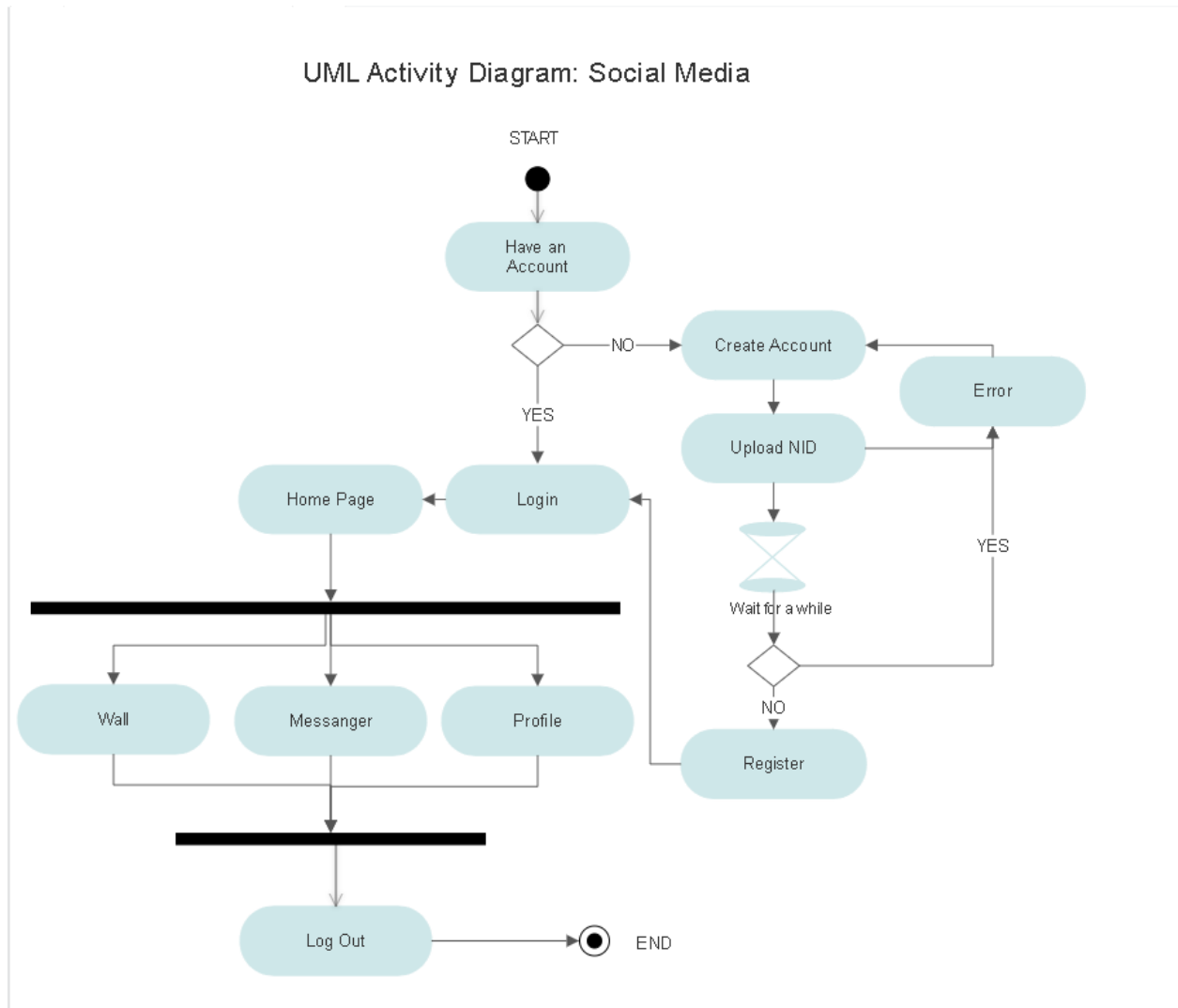
Data Breach Response Plan: Prepare a data breach response plan outlining the steps to be taken in the event of a security incident. This includes promptly notifying affected users, and authorities, and taking appropriate measures to mitigate any potential harm.

Chapter 5

Diagrams

5.1 Diagrams

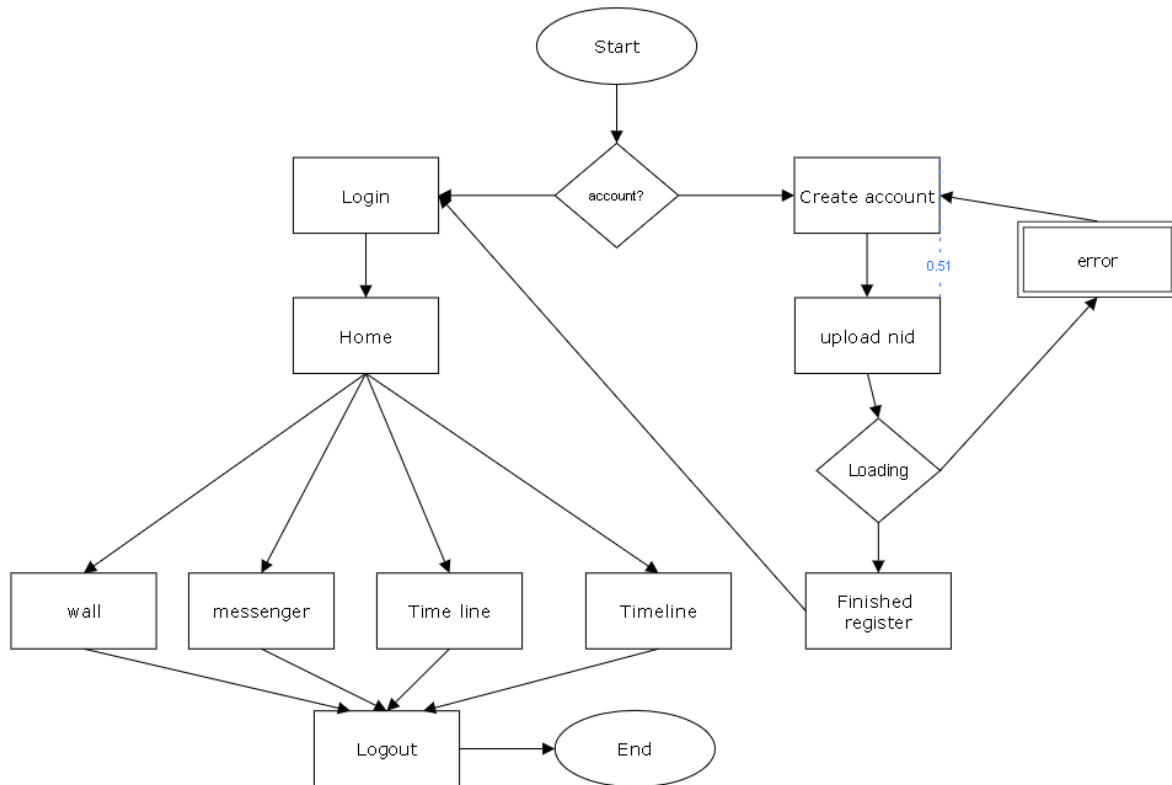
5.1.1 UML Activity Diagram



5.1.1 UML Activity Diagram

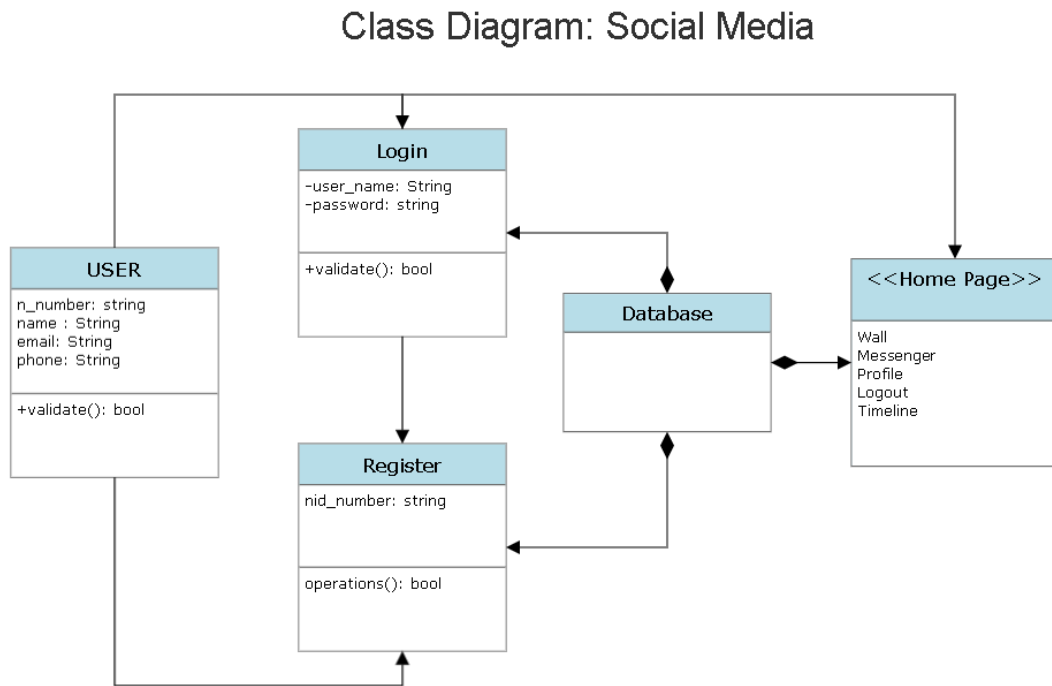
5.1.2 UML ER Diagram

ER Diagram: Social media



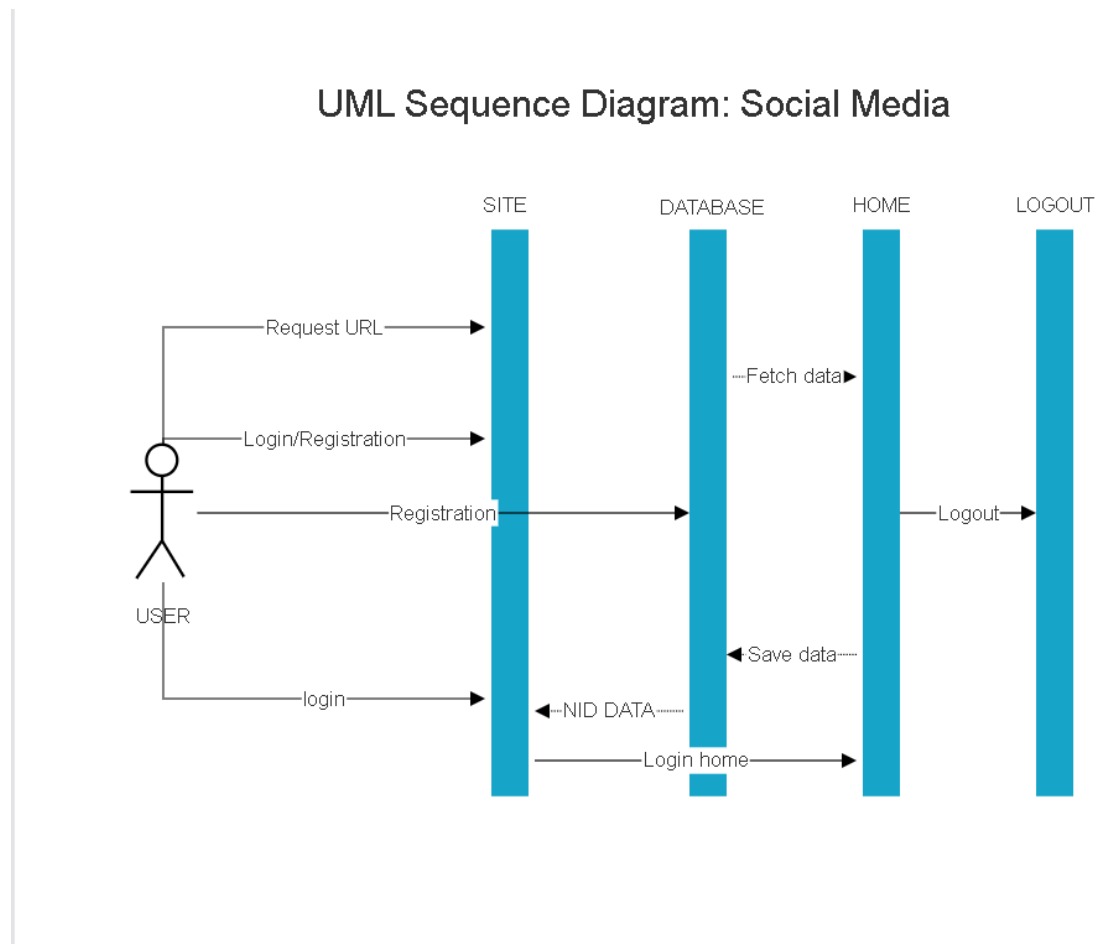
5.1.2 UML ER Diagram

5.1.3 UML Class Diagram



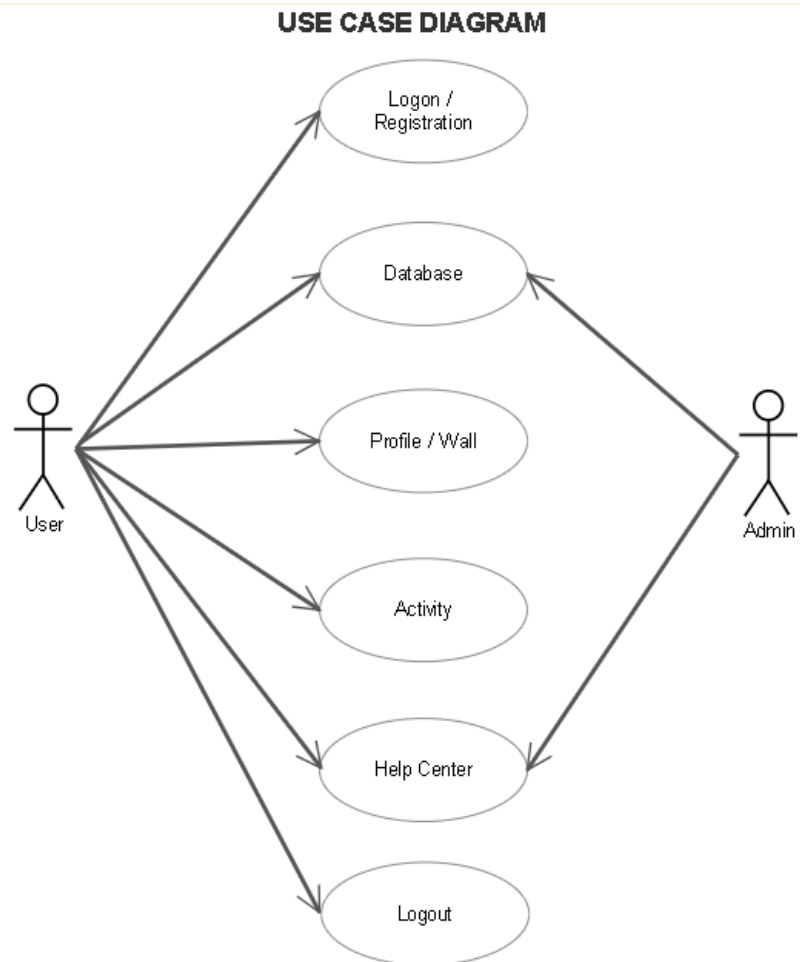
5.1.3 UML Class Diagram

5.1.4 UML Sequence Diagram



5.1.4 UML Sequence Diagram

5.1.5 Use Case Diagram



5.1.5 Use Case Diagram

Chapter 6

Design & Coding

6.1 Design

6.1.1 Opening Account

6.1.1.1 Login Page

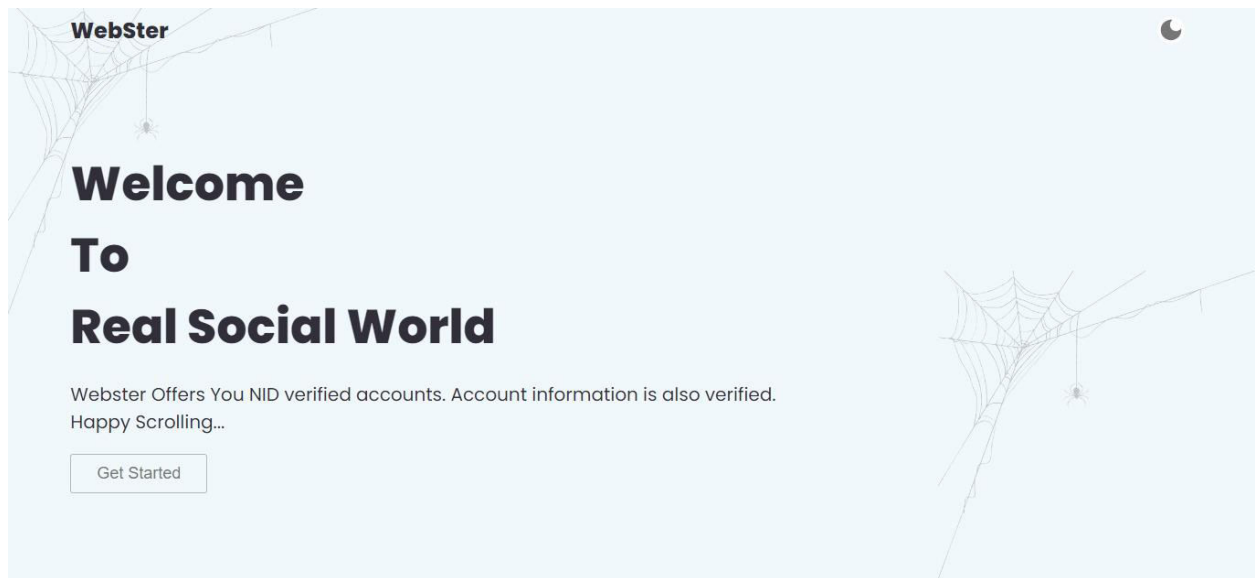


Fig-6.1.1.1 Welcome Page

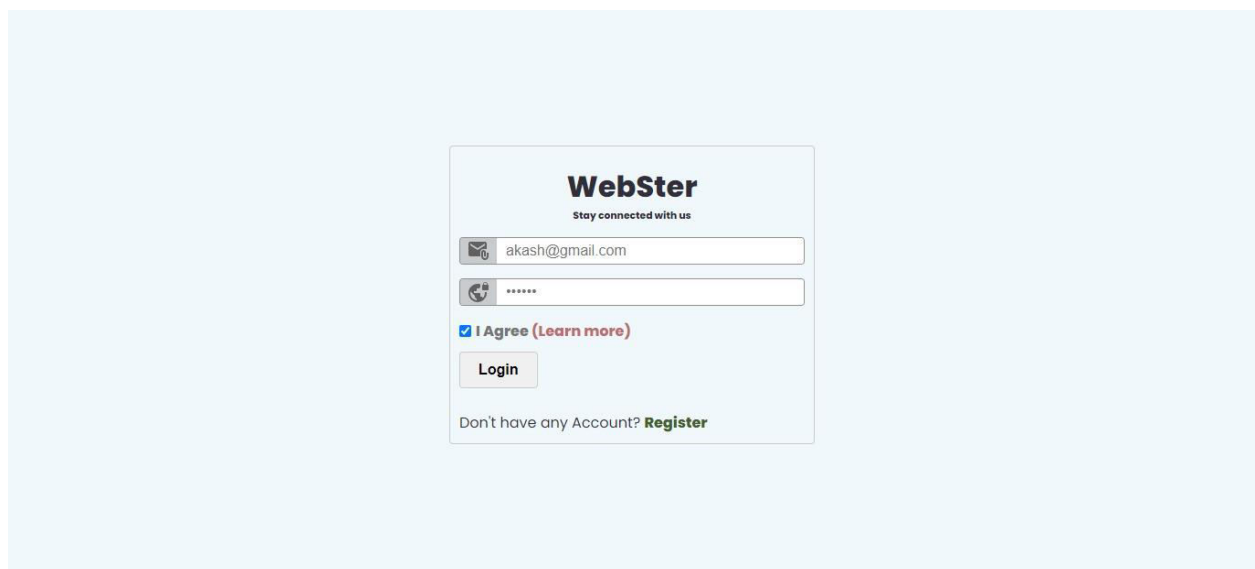
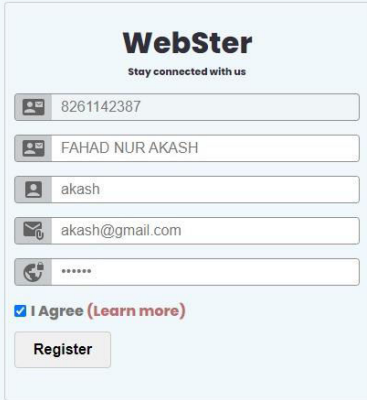


Fig-6.1.1.2 Log in Page

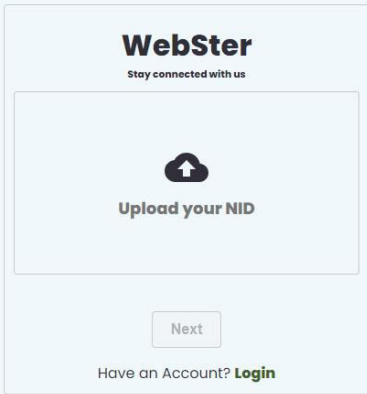
6.1.1.2 Registration



The registration form for WebSter is displayed on a light blue background. The form is a white box with a rounded border. At the top, it features the 'WebSter' logo in bold black text, followed by the tagline 'Stay connected with us' in a smaller font. Below this, there are five input fields, each with a small icon on the left: a phone icon for the first field containing '8261142387', a person icon for the second field containing 'FAHAD NUR AKASH', another person icon for the third field containing 'akash', an email icon for the fourth field containing 'akash@gmail.com', and a globe icon for the fifth field containing '*****'. Below the input fields is a checkbox with the text 'I Agree' followed by a red link '(Learn more)'. At the bottom of the form is a 'Register' button.

Fig-6.1.1.2.1 Registration For New User

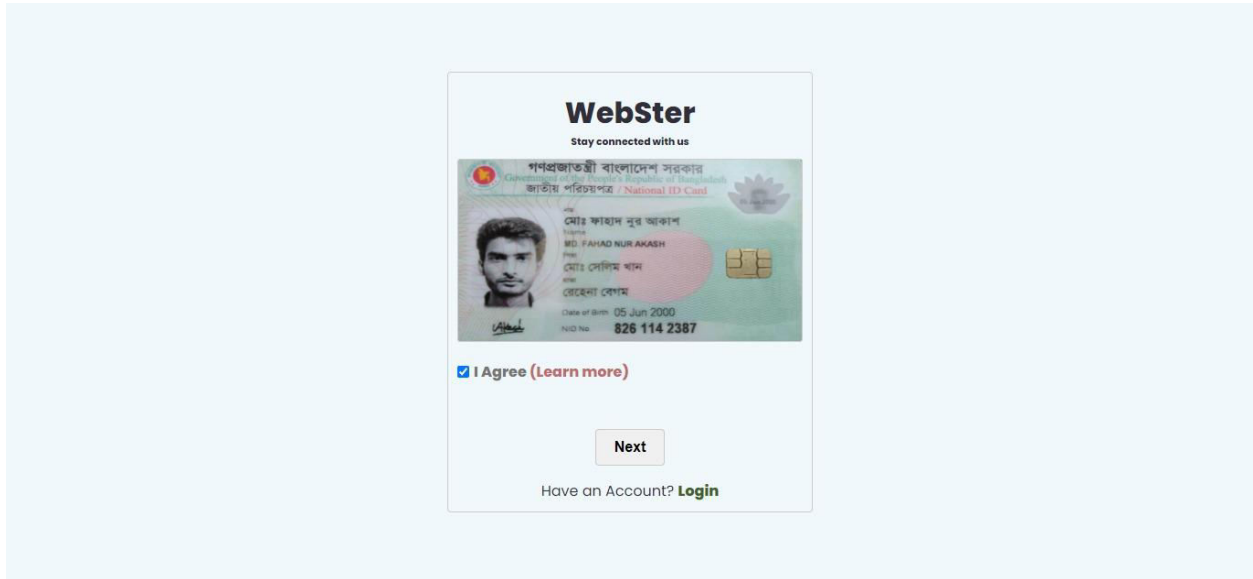
6.1.1.3 NID Scanner



The NID Scanner form for WebSter is displayed on a light blue background. The form is a white box with a rounded border. At the top, it features the 'WebSter' logo in bold black text, followed by the tagline 'Stay connected with us' in a smaller font. Below this is a large rectangular area with a light blue background, containing a black icon of a cloud with an upward arrow and the text 'Upload your NID' in bold. Below this area is a 'Next' button. At the bottom of the form, it says 'Have an Account? Login' with 'Login' in green text.

6.1.1.3.1 NID Verification For New User (Uploading NID)

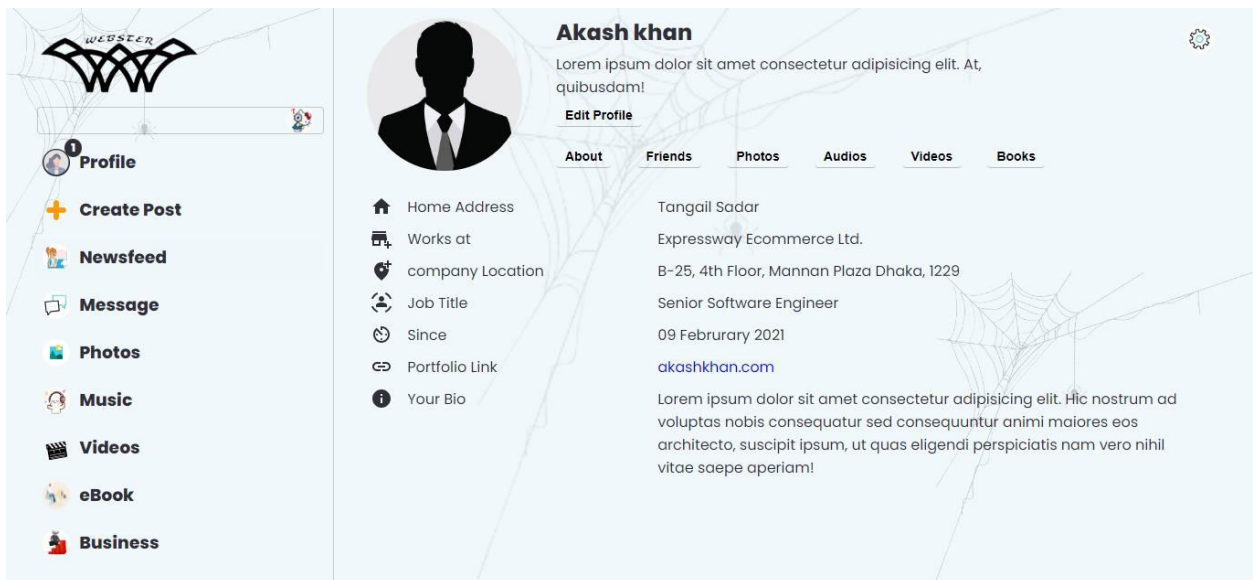
NID Verification For New User (Scanning NID)



6.1.1.3.2 NID Verification For New User (Scanning NID)

6.1.2 Profile & wall

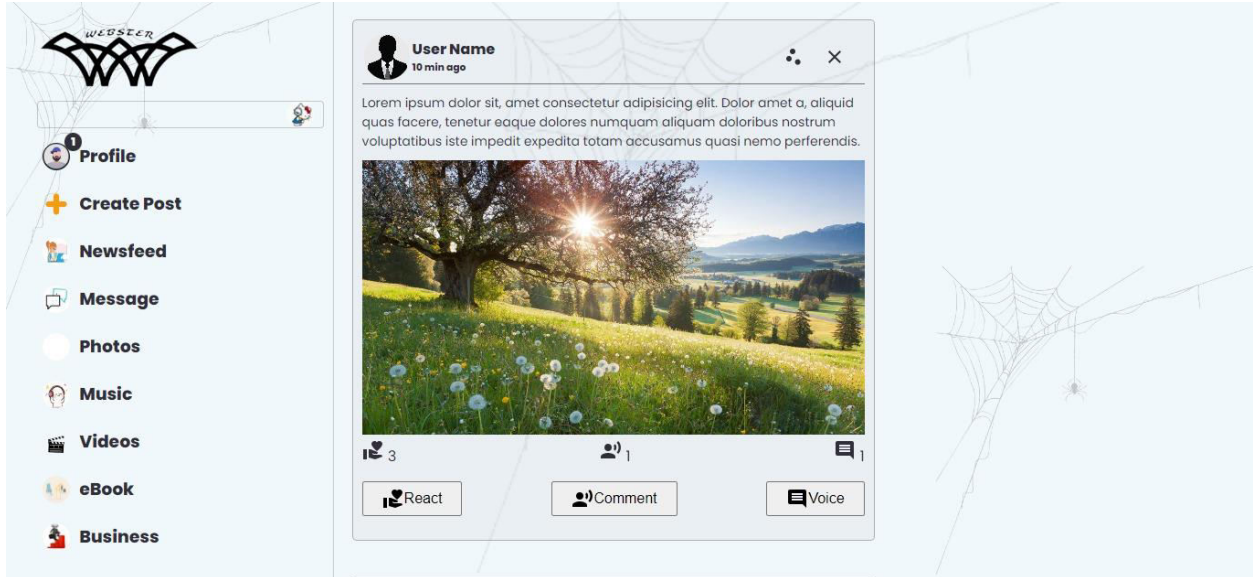
6.1.2.1 Profile



6.1.2.1.1 How User Profile Looks like

6.1.2.2 Wall

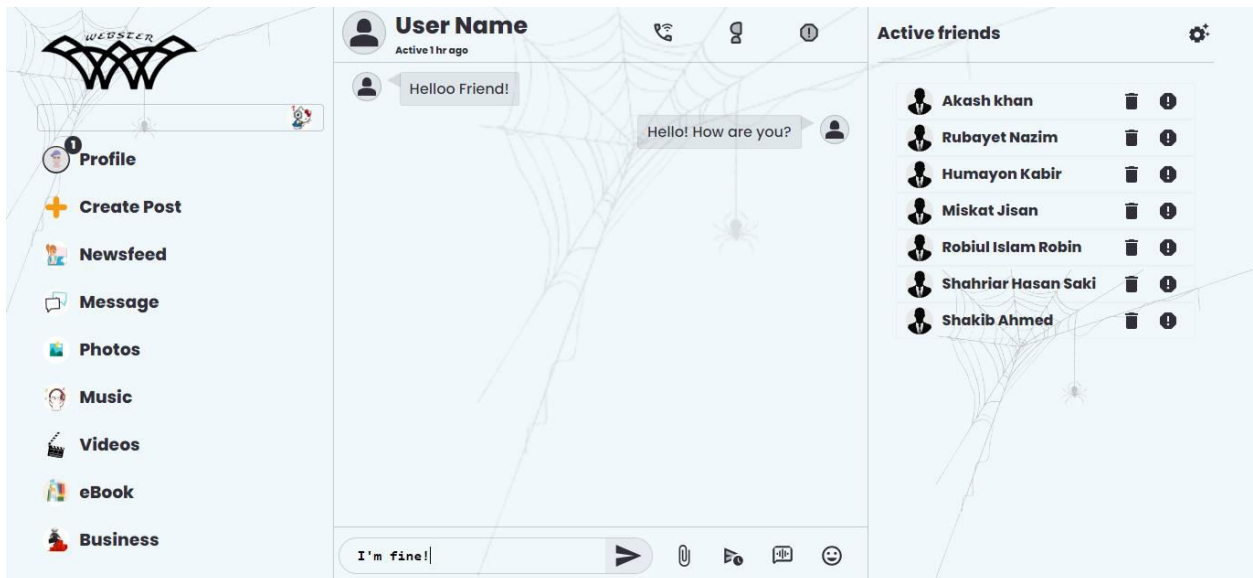
How User Wall Look like



6.1.2.2.1 How User Profile Looks Like

6.1.3 Messenger

6.1.3.1 Messenger(Time Based Message)



6.1.3.1.1 General & Time-Based Messaging

6.1.4 E-book

6.1.4.1 E-book



6.1.4.1.1 E-book

Chapter 7

Time Limit & Discussion

7.1 Time limit

Too many features have to add to this site. But 4 months is a very short time for this project. So we are thinking about some main features for this time limit. In the future, we will decide on the full project that we have already planned so far.

Creating a social media platform within a short time frame can be quite challenging due to the complexity and scale of such projects. Here are some of the difficulties we encounter:

Technical Complexity: Developing a social media platform involves various technical aspects, including user authentication, data storage, real-time updates, scalability, and security. Implementing these features requires a good understanding of web development technologies, frameworks, and best practices.

Design and User Experience: Designing an intuitive and visually appealing user interface for a social media platform can be a time-consuming task. Creating wireframes, and mockups, and iterating on the designs to ensure a seamless user experience often requires careful planning and consideration.

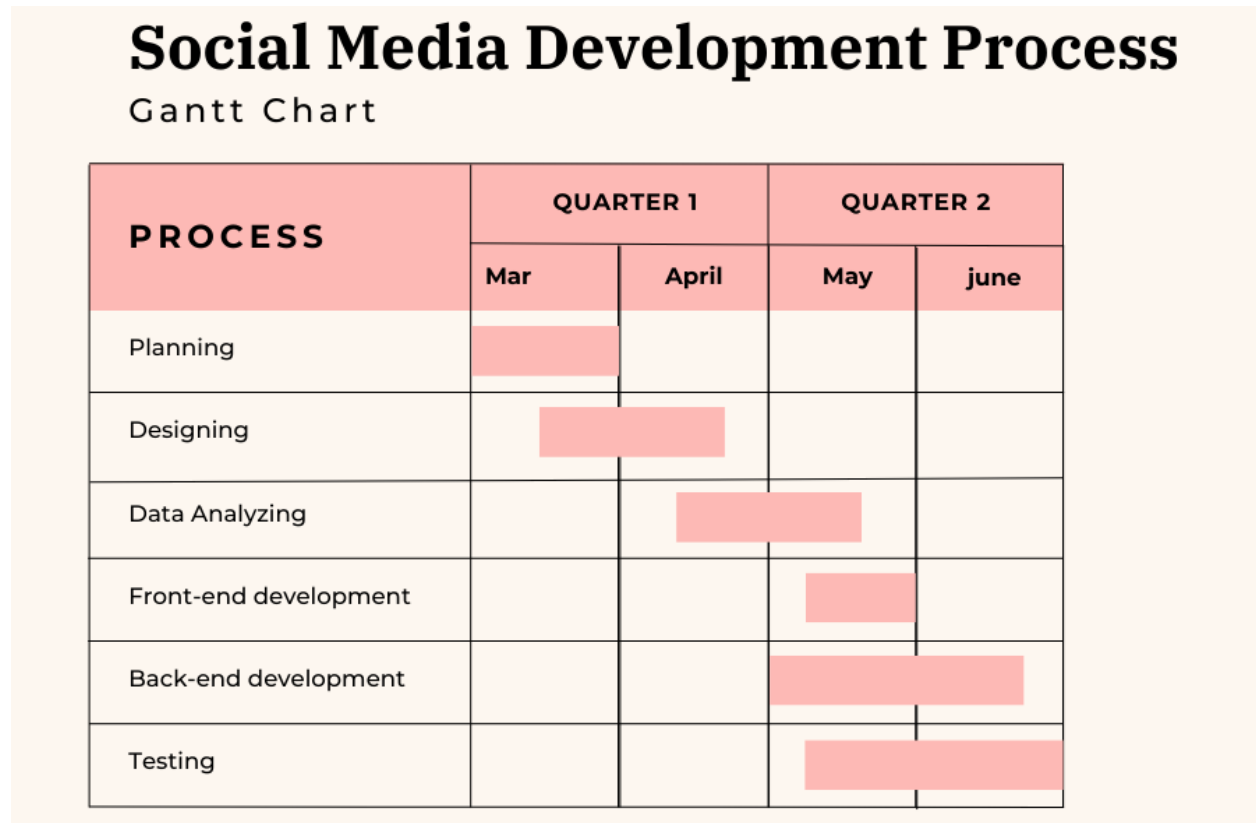
Backend Development: Building the back-end infrastructure to handle user registrations, profiles, posts, comments, likes, and notifications is a complex task. It involves database design, creating APIs, handling user-generated content, implementing algorithms for news feed customization, and managing server-side resources efficiently.

Time Constraints: Developing a fully functional social media platform within a short time frame can be challenging due to the number of features and functionalities typically associated with such platforms. Time constraints may force you to prioritize certain features and compromise on others, potentially impacting the overall user experience.

Testing and Bug Fixing: Thoroughly testing a social media platform to ensure it functions correctly across different devices, browsers, and user scenarios can be time-consuming. Identifying and fixing bugs, as well as conducting usability testing, requires dedicated effort to deliver a reliable and robust platform.

Legal and Privacy Considerations: Developing a social media platform also involves considerations of legal and privacy aspects. Ensuring compliance with data protection regulations, terms of service, content moderation, and user privacy can add complexity and time to the development process.

7.1.1 Gantt Chart



7.2 Discussion

This platform aims to enhance user trust and authenticity by integrating National ID verification as a mandatory step during user registration. Through this discussion, we will explore the importance of NID verification, the challenges faced during its implementation, user experience and acceptance, and potential future enhancements.

NID verification plays a crucial role in establishing a secure and reliable online environment. By requiring users to verify their identity through their National ID, the platform ensures that each user account is associated with a legitimate individual. This reduces the prevalence of fake accounts and fraudulent activities, enhancing the overall user experience and fostering a trustworthy community.

The implementation of NID verification also raises important considerations regarding user privacy and data protection. We have implemented robust security measures to safeguard user data, ensuring that it is stored, processed, and protected by relevant privacy regulations. By addressing privacy concerns and emphasizing the responsible handling of user data, we aim to instill confidence in our users.

During the development process, we encountered several challenges in implementing NID verification. Technical complexities, legal considerations, and logistical hurdles required careful planning and resource allocation. We carefully navigated these challenges, striking a balance between user convenience and the necessity of identity verification. We aimed to create a streamlined user experience while upholding the integrity of the verification process.

User feedback and acceptance have been crucial in shaping the development of the NID-verified social media platform. We have actively sought user input and made modifications based on their suggestions. By ensuring clear communication and educating users about the benefits and importance of NID verification, we have fostered a positive reception among our user base.

Looking to the future, there are several potential enhancements and expansion opportunities for our NID-verified social media platform. Usability improvements, additional security measures, and integration with other platforms or services are some areas that can be explored. Moreover, the success of this project serves as a foundation for further research and development in the field of identity verification on social media platforms.

In a comparative analysis, our NID-verified social media platform demonstrates advantages over existing platforms in terms of user trust, authenticity, and privacy. By providing a higher level of identity verification, we differentiate ourselves from other platforms and offer users a more secure and reliable online experience. However, it is essential to continuously monitor and adapt to the evolving landscape of social media and technological advancements.

In conclusion, the development and implementation of a NID-verified social media platform have proven to be a challenging yet rewarding endeavor. By prioritizing user trust, authenticity, and privacy, we have created a platform that not only offers a seamless user experience but also contributes to a safer online environment. The project's success paves the way for future improvements and research in the realm of identity verification on social media platforms.

Chapter 8

Conclusion & References

8.1 Conclusion

On February 4, 2004, a Harvard sophomore named Mark Zuckerberg launches Facebook, a social media website he had built to connect Harvard students with one another. Now known simply as Facebook, the site quickly ballooned into one of the most significant social media companies in history[7]. Our project has just begun. In our project, our top priority is Users & Reduce fake accounts, and true account information. It can feel the users in the real social world. We have many ideas to develop but within a very short time, we can't develop them. So we will reserve them for our future planning. An Approach has been proposed to make a new social media platform & introduce it to the users.

8.2 References

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