

Anonymous Social Media Platform

A project submitted to

UKA TARSADIA UNIVERSITY

in partial fulfillment of the requirements for the degree of

Master of Science

in

Information Technology

for

5 Years Integrated MSc.(IT)

By

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CERTIFICATE

This is to certify that **Patel Anvi A. (202006100110081)** has submitted project entitled **“Anonymous Social Media Platform”** as the partial fulfillment for the award of the degree of Bachelor of Science in Information Technology for 5 Years Integrated M.Sc. (IT) in 2023 – 2024.

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1. Introduction

1.1 Problem Definition:

In the current digital era, there is an increasing demand for platforms that let people freely express themselves and share their ideas without being identified. Social media has developed into an effective instrument for communication, yet many users are afraid to express themselves honestly for fear of criticism, negative feedback, or other consequences.

Social media sites currently in use frequently demand identity disclosure from their users, which may discourage them from sharing real ideas and opinions. Consequently, there is a need for an anonymous social media platform that offers a secure and welcoming space where people may express their opinions without worrying about being recognized.

1.2 Project Objective:

Creating an approachable, anonymous social media platform that enables people to contribute ideas, opinions, and experiences without disclosing who they are is the aim of this project. The platform hopes to facilitate meaningful conversations, enhance community spirit, and advance freedom of expression. We aim to establish a cheerful and lively community space where users may connect, exchange, and engage in anonymous interaction through well-thought-out design and robust features.

1.3 Project Scope:

➤ In Scope:

- Integration of OAuth authentication with third-party providers such as Google, Facebook, or GitHub for user login.
- User interface elements for initiating OAuth authentication and managing account-related actions such as password recovery and password change.
- Backend logic for handling OAuth authentication tokens, verifying user identity, and managing content sharing functionalities.
- Implementation of content creation and viewing capabilities for content consumers, allowing them to contribute anonymously.
- Secure implementation of password recovery and password change functionalities through third-party authentication providers, ensuring user account security.

➤ Out of Scope:

- The following tasks and functionalities are considered out of scope for the current project:
- Traditional user registration and administration panels for managing user accounts and permissions.
- Advanced user management features such as user roles, access control, or user-generated content moderation.
- Content Consumers shall not be able to upload image and videos for security purpose.

2. Overall Description:**2.1 Product Perspective/Environment Description****2.1.1 Hardware Interface/ Hardware Specification**

Utilities	Needs
RAM	4 GB
Hard Disk	25 GB
Operating System	All versions of Windows & Ubuntu
Display	1023 x 768

2.1.2 Software Interface/Software Specification

Type	Web-Based Application
Front-End	NEXT JS, REACT JS
Back-End	NODE JS, EXPRESS JS, MONGO DB
Operating System	All versions of Windows and Ubuntu
Tools	Postman, Visual Studio

3. System Specific Requirement:

3.1 Functional Requirements:

3.1.1 User Registration

3.1.2 Profile Management

3.1.3 Content Creation

3.1.4 Interaction with Content

3.1.5 Content Discovery

User Registration

RN	Description	Comments
FR1	Allow content consumers to register on the platform using OAuth authentication with supported third-party providers or through a custom registration process.	Login_Page
FR2	System shall allow users of the system to logout from the system.	All pages after Login

Profile Management

RN	Description	Comments
FR1	Give users of content the option to edit their username, email address, and profile photo, among other profile details.	Third Party Login_Page

Content Creation

RN	Description	Comments
FR1	Permit anonymous post creation and sharing on the platform for content consumers.	Time Line Page
FR2	Give users an easy-to-use interface to create posts with features like text formatting.	Time Line Page
FR3	Create content by writing in multiple languages.	Time Line Page

Interaction with Content

RN	Description	Comments
FR1	Permit comments, upvoting, and downvoting on postings to engage content consumers.	Time Line Page
FR2	Implement real-time updates to reflect changes in post interactions, such as displaying the current number of upvotes or comments.	Time Line Page
FR3	Allow users to hide specific comments if user not find the content appropriate.	Time Line Page

Content Discovery

RN	Description	Comments
FR1	Facilitate content discovery by providing content consumers with browsing and search functionalities.	Time Line Page
FR2	To assist users in finding pertinent information based on categories, tags, or hot themes, implement filters and sorting options.	Time Line Page

3.2 Non-Functional Requirements:

RN	DESCRIPTION	COMMENTS
NFR1	<ul style="list-style-type: none">• Ensure fast response times and high throughput to handle user interactions efficiently.• Design for scalability to accommodate increasing user loads.	Performance
NFR2	<ul style="list-style-type: none">• Encrypt sensitive data and implement robust authentication and authorization mechanisms.• Adhere to privacy regulations and protect against common security threats.	Security
NFR3	<ul style="list-style-type: none">• Design an intuitive and accessible user interface for easy navigation and interaction.• Maintain consistency in design elements and terminology across the platform.	Usability
NFR4	The system shall help users to reach their goals i.e., to share their thoughts anonymously.	Efficiency

4. System Design:**4.1 Database Design:****4.1.1 Database Schema:**

1. tblComments (Id[PK], comment, createdAt, updatedAt, hiddenFor, likes, dislikes)

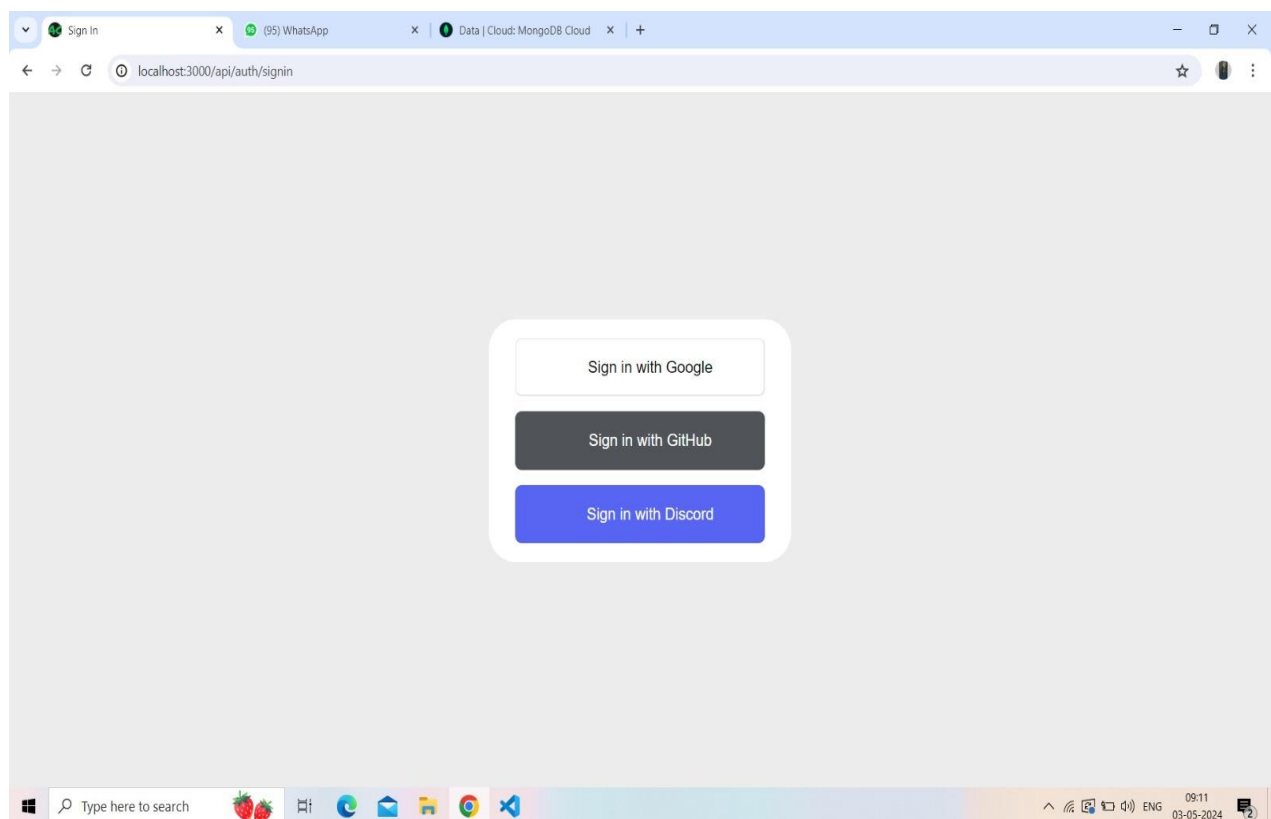
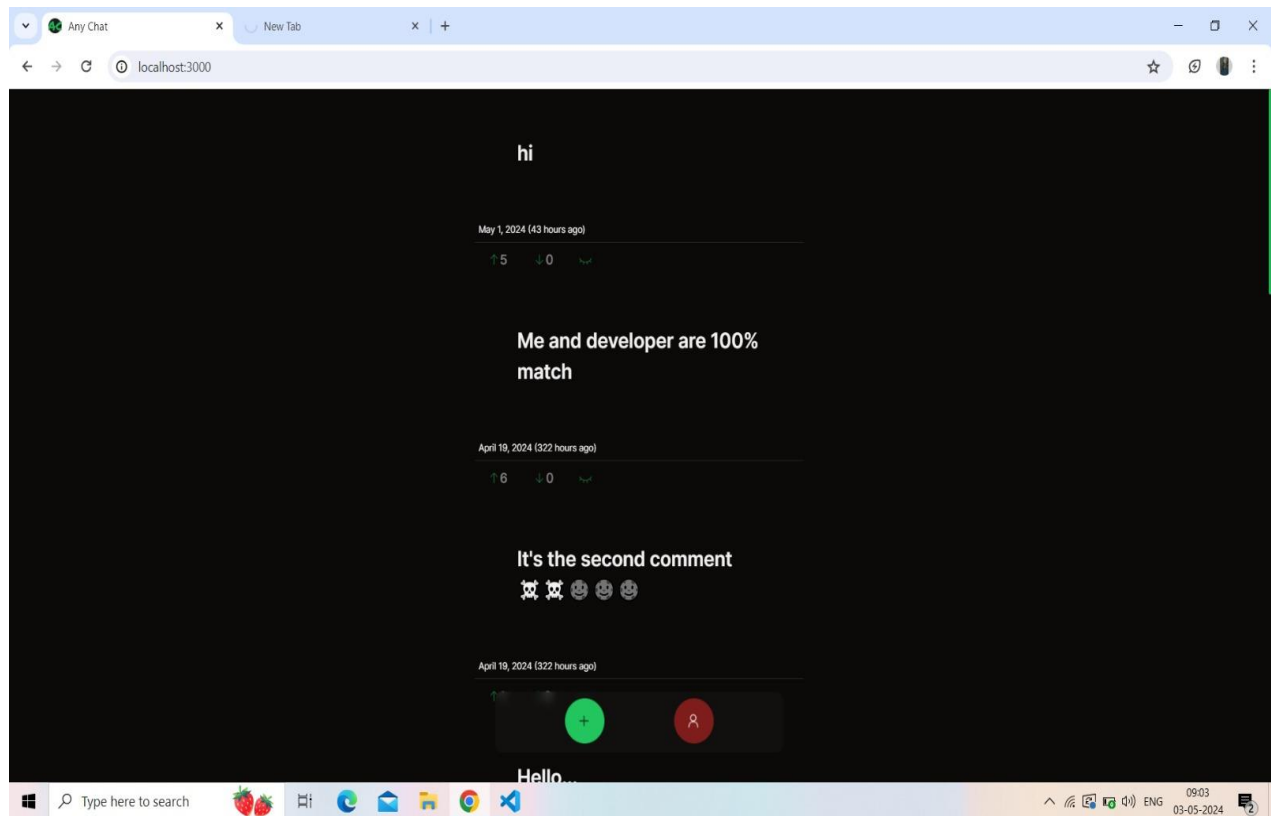
FD -> Comment, createdAt, updatedAt, hiddenFor, likes, dislikes

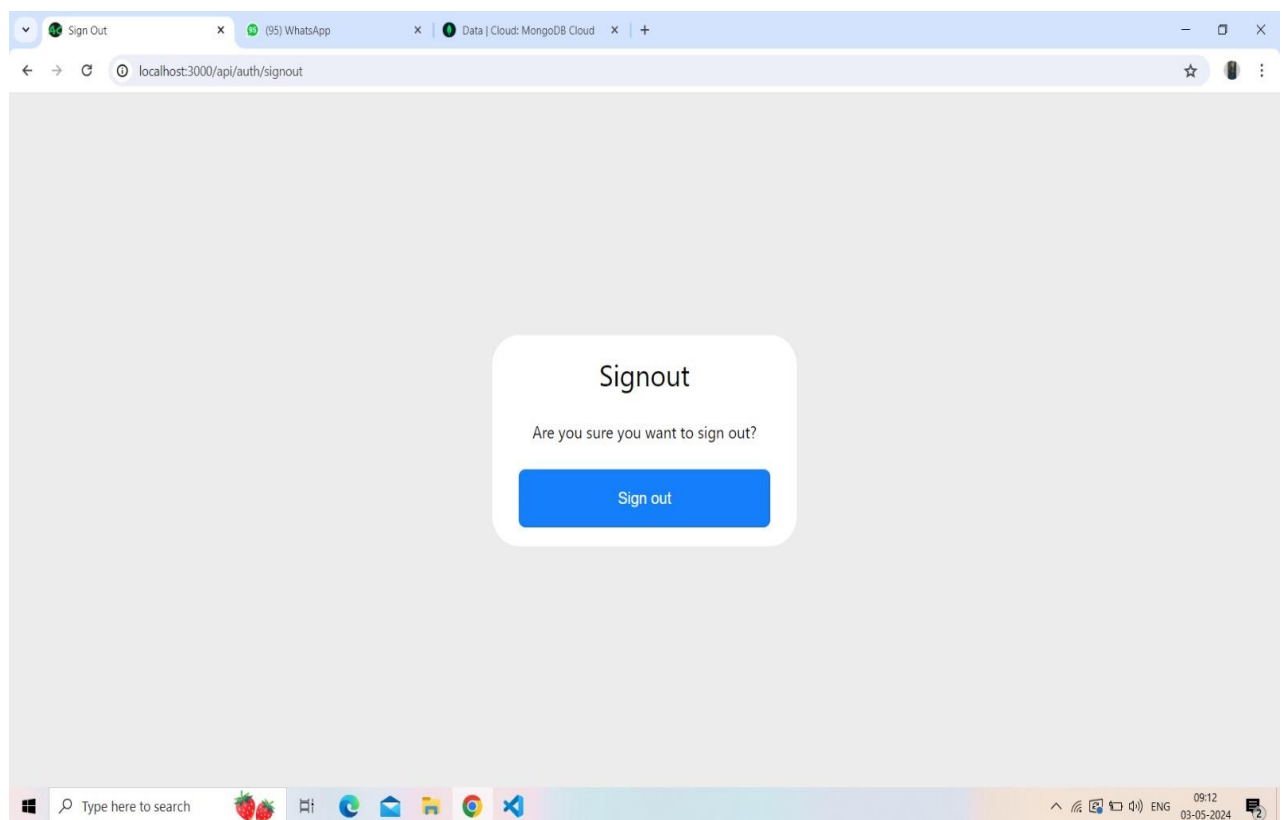
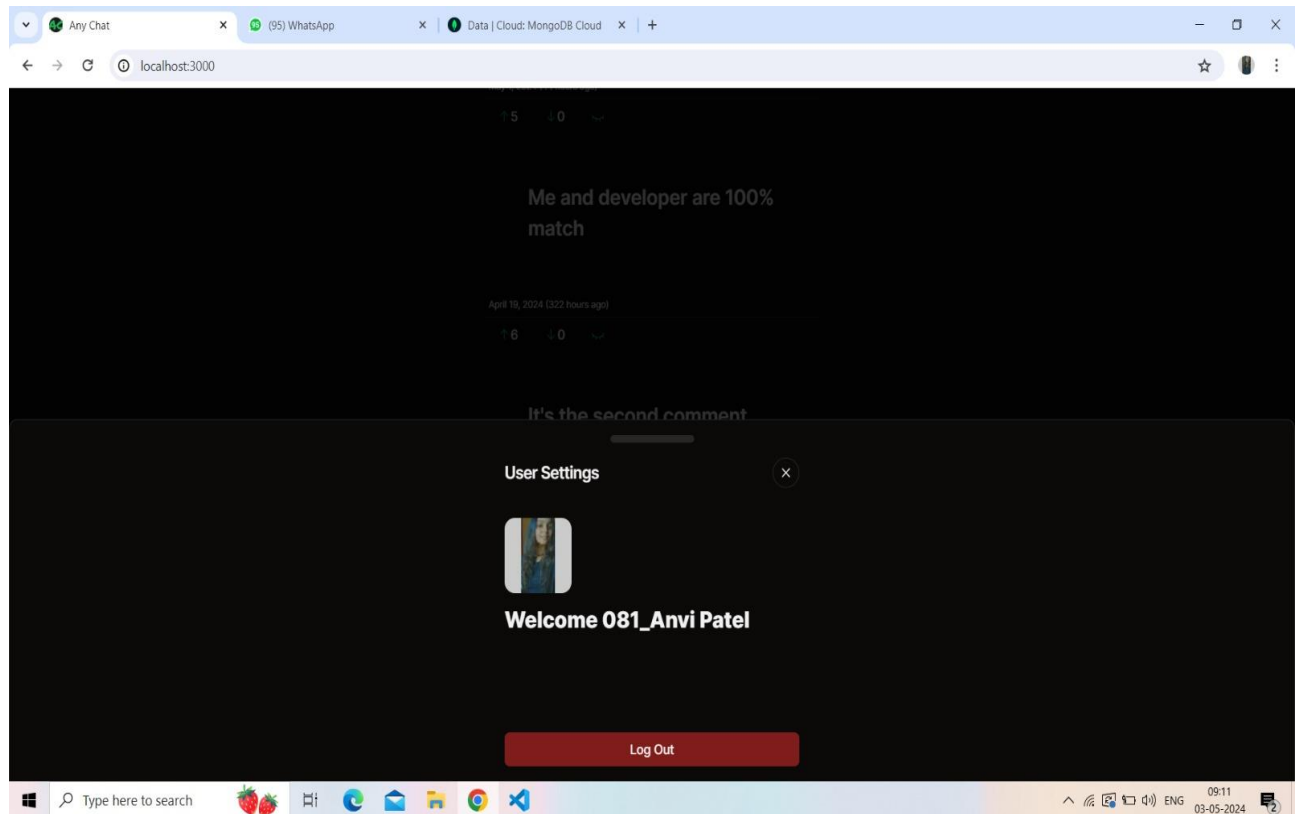
4.1.2 Data Dictionary:**1. tblComments**

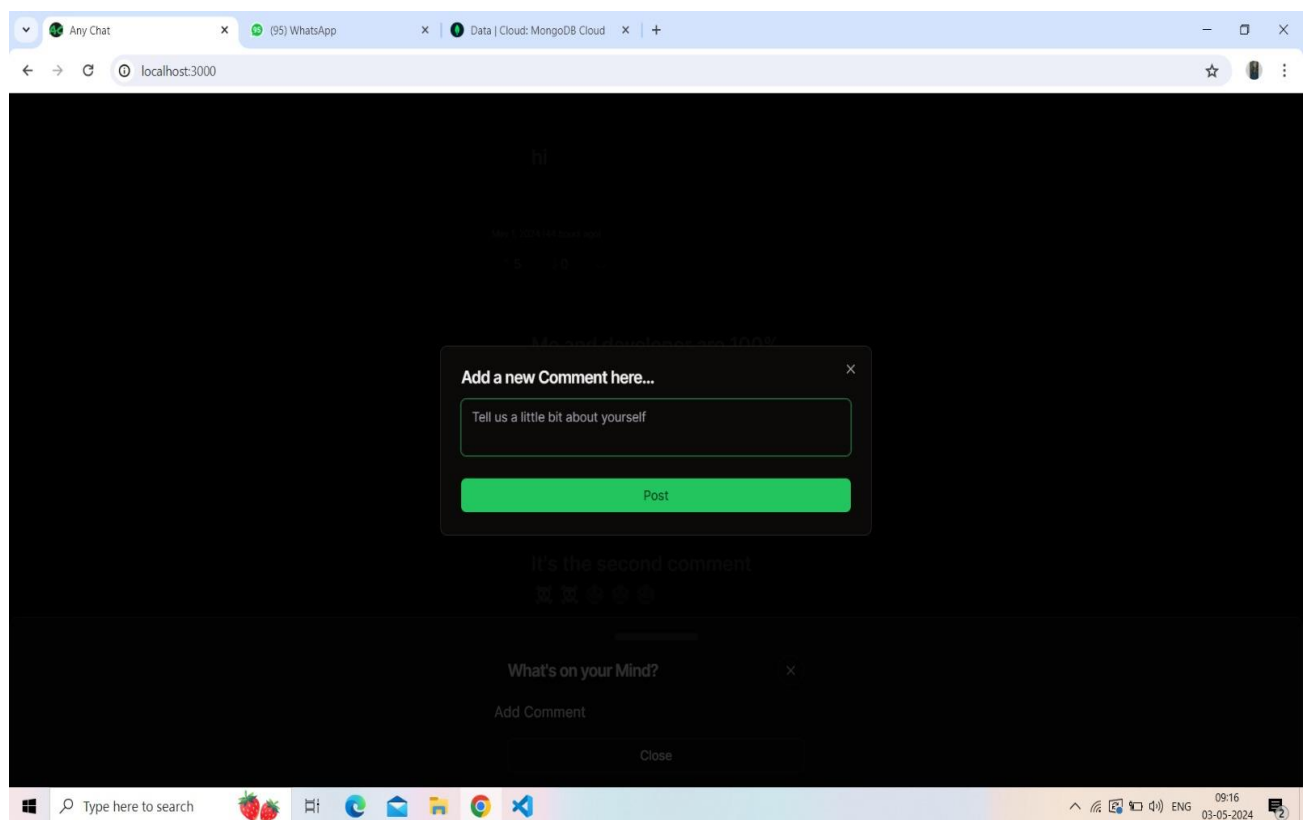
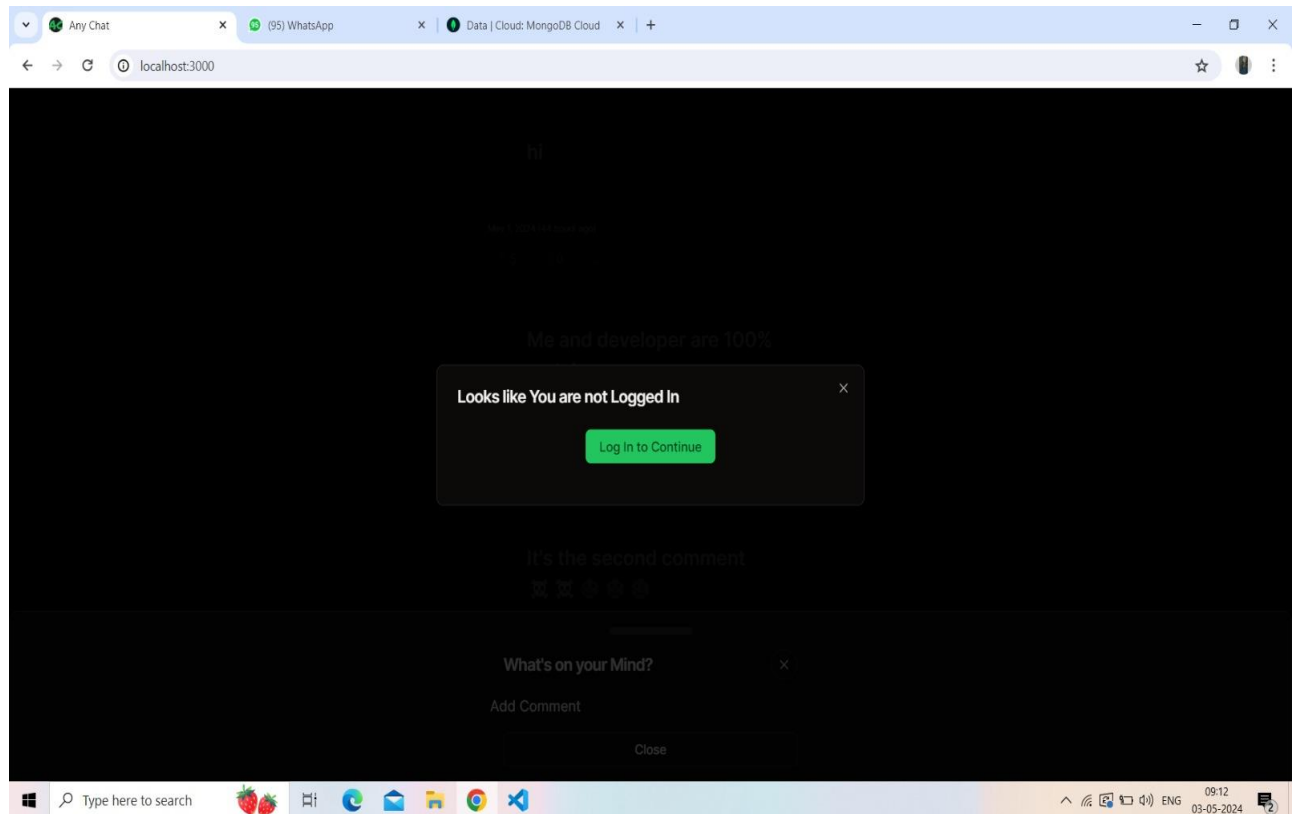
SR No.	Field Name	Datatype	Size	Constraints	Description
1	Id	int	-	Primary Key	Stores Id of particular comment
2	Comment	varchar	MAX	Not Null	Stores particular comment
3	Created At	varchar	50	Not Null	Stores date and time of particular comment created
4	UpdatedAt	varchar	50	Not Null	Stores date and time of particular Comment updated
5	hiddenFor	Varchar	50	Not Null	Stores the user number for which specific comment is hidden
6	likes	Int	-	Not Null	Stores number of count for likes
7	dislikes	Int	-	Not Null	Stores number of count for dislikes

5. System Implementation:

5.1 Screenshots:







6. Future Enhancement:

In our forthcoming update, we are excited to introduce a highly anticipated feature: anonymous messaging. This innovative addition allows users to engage in private conversations without disclosing their identities, fostering a secure and discreet means of communication. Whether for networking purposes or seeking confidential advice, this feature offers users a platform for candid interactions free from the apprehension of being identified. Prepare to experience a new dimension of connectivity, empowering users to engage authentically while safeguarding their anonymity.

7. Conclusion:

In conclusion, our anonymous social media app represents a significant evolution in online communication, offering users a safe and liberated space to express themselves authentically. Through innovative features such as anonymous messaging and enhanced privacy controls, we have prioritized user anonymity and security, fostering a community where individuals can share their thoughts, seek advice, and connect with others without fear of judgment or repercussion. As we continue to evolve and innovate, our commitment remains steadfast to providing a platform that empowers users to engage in meaningful interactions while preserving their anonymity, ultimately shaping a more inclusive and empathetic digital landscape. Join us in redefining social media, one anonymous conversation at a time.

8. Bibliography:

- Team Blind. (n.d.). Retrieved from <https://www.teamblind.com/>
- Whisper. (n.d.). Retrieved from <https://whisper.sh/>