

# [PROJECT TITLE]

## THREADS CLONE

### 1. Project Background and Description



#### Mission:

The Project mission is to create a dynamic and feature-rich social media platform, Threads Clone. Taking cues from the popular Threads app, the goal is to provide users with an engaging and interactive social space with some extra functionality with minimalist design to users.

### 2. Project Scope



Threads Clone includes essential social media features such as user sign-up, text/image posts, real-time chat, profiles, and account management.

#### Inclusions:

- Robust user authentication with secure password encryption.
- Text and image post creation and sharing.
- Online status indicator to instantly identify when users are active and available.
- User profiles with customizable options and follow/unfollow capabilities.
- Post interactions such as likes, replies, and Copy Profile link.
- Suggested users and account management options like freeze Account.
- Compatibility across multiple web browsers is supported.
- Real-time chat functionality for interactive communication.
- Stay instantly informed with an interactive notification sound on the arrival of fresh message.

#### Exclusions:

- This project will not be able to deal with Video calling functionalities.
- For now, users can't share someone's post directly on own timeline.

### 3. High-Level Requirements



There are some high-level requirements of the project which are to be considered, as necessary.

*The new system must include the following:*

- *Secure Authentication: Implement a robust authentication system.*
- *Authorization and Encryption: Ensure secure user data storage.*
- *Text and Image Posts: Help the creation and sharing of diverse content.*
- *Real-Time Chat Integration: Seamless integration for interactive communication.*
- *User Profiles and Interactions: Enable users to follow/unfollow, like, and reply to posts.*
- *Suggested Users and Account Management: Recommendations and user profile management.*
- *Compatibility: Accessible on various devices.*

## 4. Deliverables

**i** *The project will deliver a fully functional Threads Clone system, featuring:*

- *A secure authentication and authorization system.*
- *Real-time chat functionality with online/offline user status.*
- *Interactive notifications for new messages.*
- *A visually appealing and user-friendly interface.*
- *Comprehensive user documentation.*
- *Well-organized and modular source code.*

## 5. Implementation Plan

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- **React:** Build a dynamic and responsive UI using React.
  - **Node.js and Express.js:** Develop a robust backend using Node.js and Express.js.
  - **MongoDB:** Store data efficiently with MongoDB's document database.
  - **Socket.IO:** Enable real-time communication for interactive features.
  - **Chakra UI:** Ensure a visually appealing and user-friendly design with Chakra UI.

## 6. High-Level Timeline/Schedule

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- *Planning and Design: 2 months*
  - *Development: 4 months*

- *Testing and Refinement: 2 months*
- *Deployment: 1 month*