PROJECT PRESENTATION

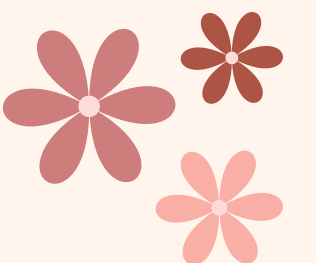Presented by Zeeshan Mukhtar

INTRODUCTION

Threads Clone is a cutting-edge social media platform with Core social media features designed to enhance user interactions. This platform allows users to sign up, create posts, engage with others, and communicate in real-time. Additionally, it incorporates AI to generate content and replies, offering a unique user experience.
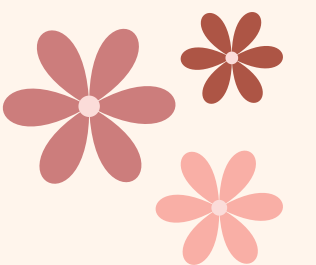
ABOUT THE PROJECT

Threads Clone is a robust social media platform that combines the best features of modern social networks and real-time communication tools. Users can create text posts, attach images, like, reply to posts, follow other users, see live suggestions, and manage/freeze their accounts. The platform is built using the MERN stack (MongoDB, Express.js, React, Node.js), ensuring a responsive and seamless experience.
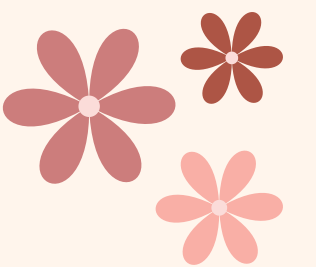
KEY FEATURES
PLATFORM CORE

- Sign up and login
- Secure authentication.
- Robust Validation.
- sponsored posts to fresh users.
- fetch similar users while searching.
- Responsive design.
- Dark and light themes.
- Logout functionality.
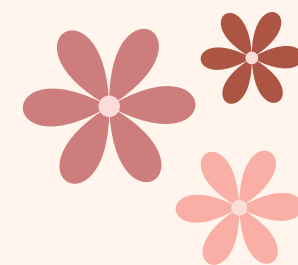
KEY FEATURES

USER INTERACTION FEATURES

- Create and view posts.
- Attach images.
- Report improper posts.
- Account management.
- Suggested user.
- Delete posts.
- Copy post Url to clipboard.
- Share post to other platforms.
- copy profile URl button.

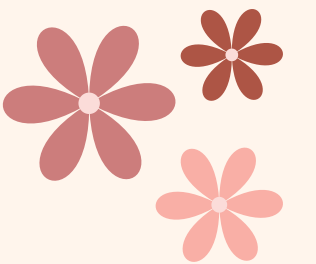# KEY FEATURES
AI INTEGRATION

- Generate Post with Gemini:
- Proper Rate Limiting/IP adress tracking.
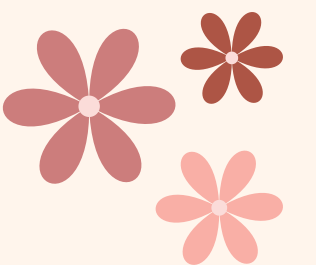- Reply with AI.

KEY FEATURES

CHAT FEATURE

- Send text and images.
- Online user status.
- Notification tones:.
- Read receipts.

KEY FEATURES

OPTIMIZATION FEATURES

- Efficient Loading.

- Maintainable source code.

- Industry standard source code.

- tracing User actions for components to avoid unnecessary re-renders and Api calls to backend

GOALS

Primary Goal:

To create a social media platform that enhances user interaction and engagement through seamless communication and AI-powered features.
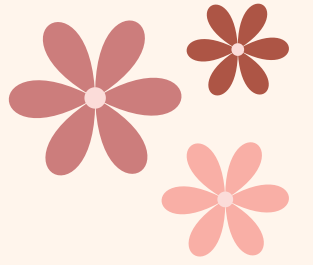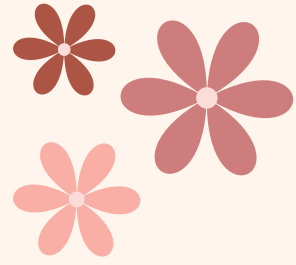
Secondary Goals:

This social network is safe and easy to use, with instant updates, works on any device, and even uses smarts to help you chat and create!
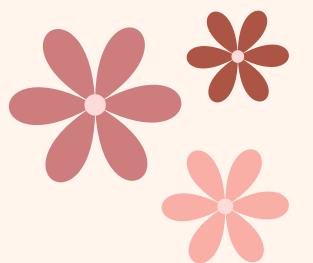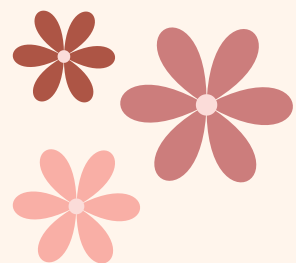
OBJECTIVES

- User Experience: Design an intuitive and engaging user interface.
- Security: Implement robust security measures for user authentication and data protection.
- AI Integration: Utilize AI for content generation and interaction.
- Scalability: Ensure the platform can handle increasing user load and data volume.
- Customization: Offer theme options and account management features for personalized user experience.
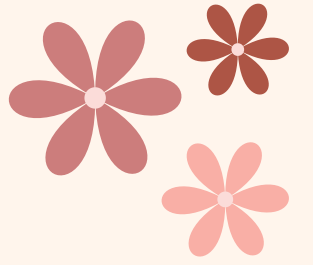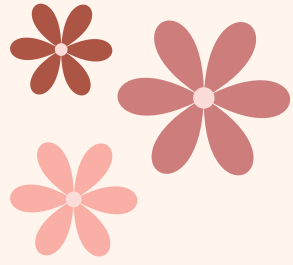
CHALLENGES

Technical Challenges

- Performance Optimization
- Real-Time Functionality
- Ensuring robust security (JWT + Bcrypt+Validation)
- Cross-Browser Compatibility
- AI Integration
- AI mis-use
- servive for storing Images free (Cloudinary)
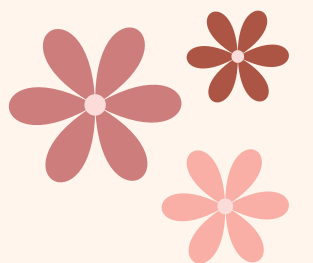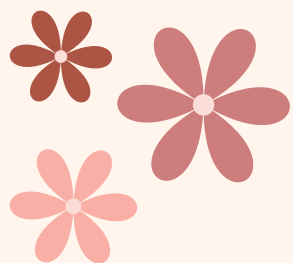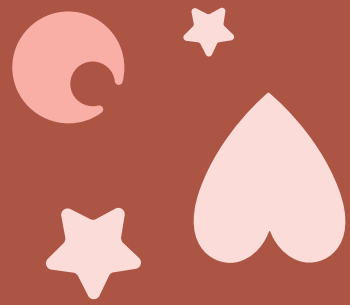- String matching while searching users.

CHALLENGES

Development Challenges:

- Managing database performance and scalability.
- Testing and debugging across various devices and browsers.
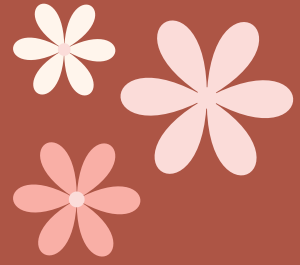- Offering some trending feature for users (suggestions algorithm)

OUR VALUES

- Innovation: Continuously exploring new technologies and features to enhance the platform.

- User-Centric Design: Prioritizing user experience and feedback in the development process.

- Security: Ensuring the highest standards of security and privacy for our users.

- Collaboration: Working together as a team to achieve common goals and solve challenges.

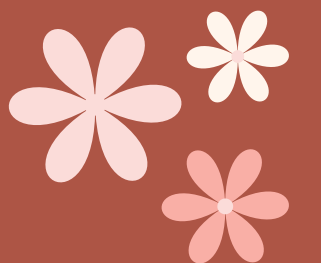- Integrity: Maintaining transparency and ethical standards in all aspects of the project.
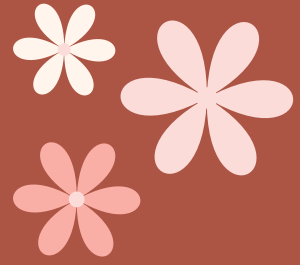
RESULT

- Successfully developed a fully functional social media platform with optimized code and AI integration.
- Implemented secure authentication and robust validation for user actions.
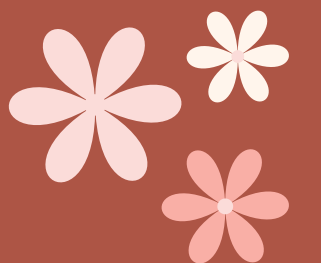- Created a responsive design compatible with mobile devices and different themes

CONCLUSIONS

Threads Clone represents a significant step forward in social media platforms, combining modern design, robust features, and AI capabilities to offer a unique user experience. The project successfully achieved its goals of enhancing user interaction, ensuring security, and providing a responsive design.

FUTURE PLANS

- Admin for suspending improper accounts.

- Develping Mobile App to get Hybrid experience.

- Expanding AI capabilities for more natural interaction.

- Introducing video post support and live streaming.

- Continuous improvement in security measures and scalability.

THANK YOU VERY MUCH

INVITATION

I welcome any questions, feedback, or discussions. Thank you for your time and attention.