DebateVerse Project Report

Project Overview

DebateVerse is a dynamic web application designed to facilitate nuanced and engaging discussions on various topics. The application allows users to create, participate in, and explore debates on a wide array of subjects. Each debate consists of a question with 2 to 7 viewpoints (options), which users can vote on. Users can also like or dislike debate questions, and all voting data is presented graphically, providing a clear visual representation of the ongoing discussions.

The project leverages the power of modern web technologies, including React for the frontend, Node.js for the backend, and MySQL for database management, to create an interactive and scalable platform for debate and community engagement.

Key Features

1. **Debate Creation**: Any user can create a new debate by specifying a question and providing 2 to 7 options .
2. **Voting Mechanism**: Each user is given 10 votes, which they can freely distribute across the various options in a debate.
3. **Search and Explore**: Users can search for existing debates by topics, keywords, or popular debates. Once a debate is selected, users can view the details, including the debate question, its options, and the current vote distribution.
4. **Likes** : In addition to voting on options, users can like an entire debate question.
5. **Admin Controls**: Admins have special privileges to manage the platform. They can close a debate to prevent further voting once the debate has concluded. Admins can also moderate users, options, and debates, ensuring that the platform remains civil and follows the guidelines for healthy discussion.
6. **Debate Statistics**: For each debate, users can see statistics such as the total votes per option on the debate question.

Technology Stack

- **Frontend**: React is used to build a responsive and interactive user interface. The component based architecture of React allows for reusable and modular UI elements. React's state management capabilities are used to efficiently handle user interactions such as voting, liking, and viewing debate statistics.
- **Backend**: Node.js is utilized to build the server-side logic of the application. Using Express.js, the backend handles API requests, such as creating debates, casting votes, and fetching debate details. The server communicates with the database and ensures smooth data management and user interaction.
- **Database**: MySQL is used for data storage and retrieval. The relational database stores user information, debate questions, options, votes, and other necessary data. The use of MySQL ensures that data is structured efficiently and can be queried effectively to retrieve and display debate details.

Workflow

1. **User Registration and Authentication**: Users can sign up and log in to the platform to create debates, vote, and engage with other users.

2. **Debate Creation**: Once logged in, users can create debates by providing a question and multiple options . These debates are stored in the database.

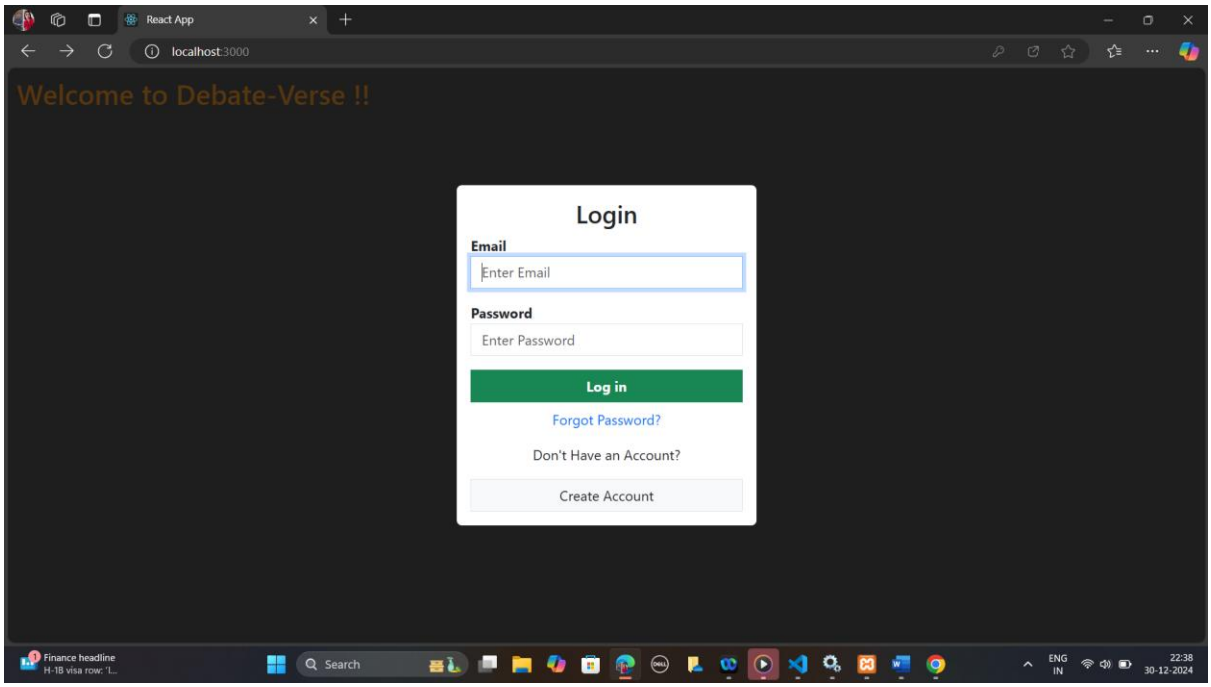
3. **Voting Process**: After a debate is created, other users can cast their 10 votes across the different options. The system keeps track of how many votes each option receives and updates the statistics in real time. Users can see the vote distribution in graphical formats such as bar graphs.

4. **Admin Moderation**: Admins can monitor ongoing debates and take action if needed. They can close debates to stop voting or moderate inappropriate content. Admins also have the ability to remove or flag users who violate the platform's guidelines.

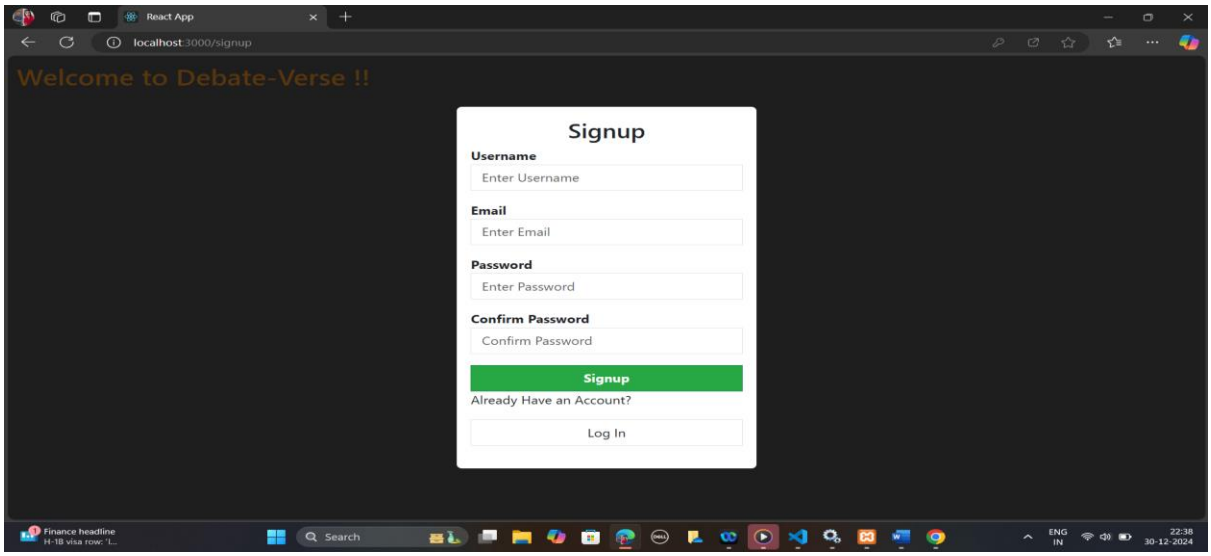
5. **Debate Statistics**: After voting, users can access detailed statistics for each debate. These include the number of votes per option and the total likes on the debate question. This feature enables users to analyze the popularity of various viewpoints and see the community's overall sentiment.

ScreenShot of Project

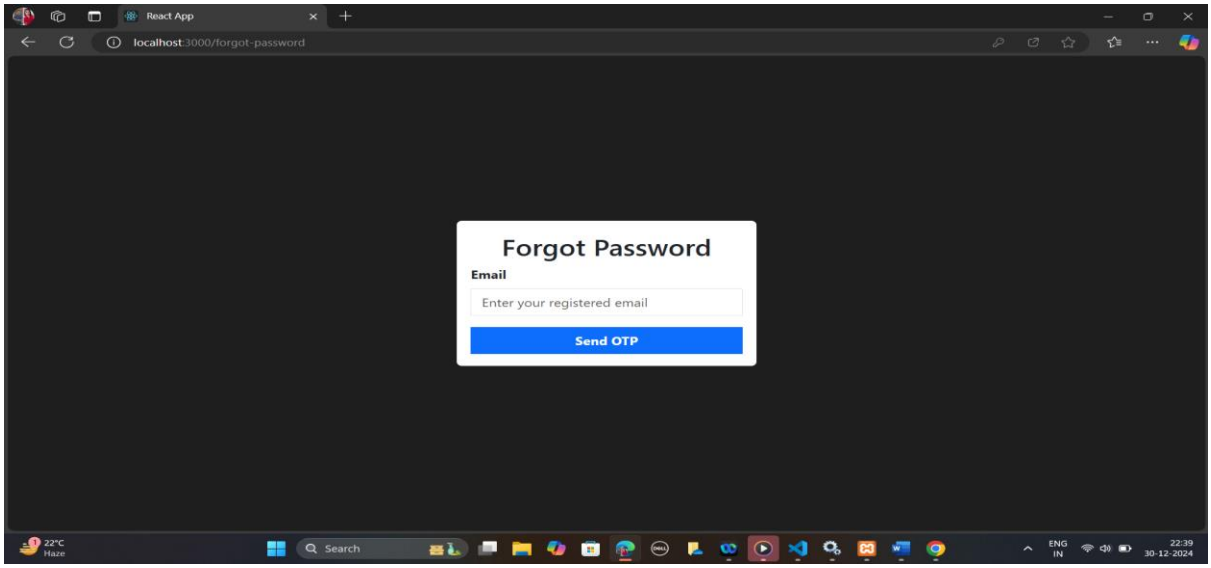
Login Page :



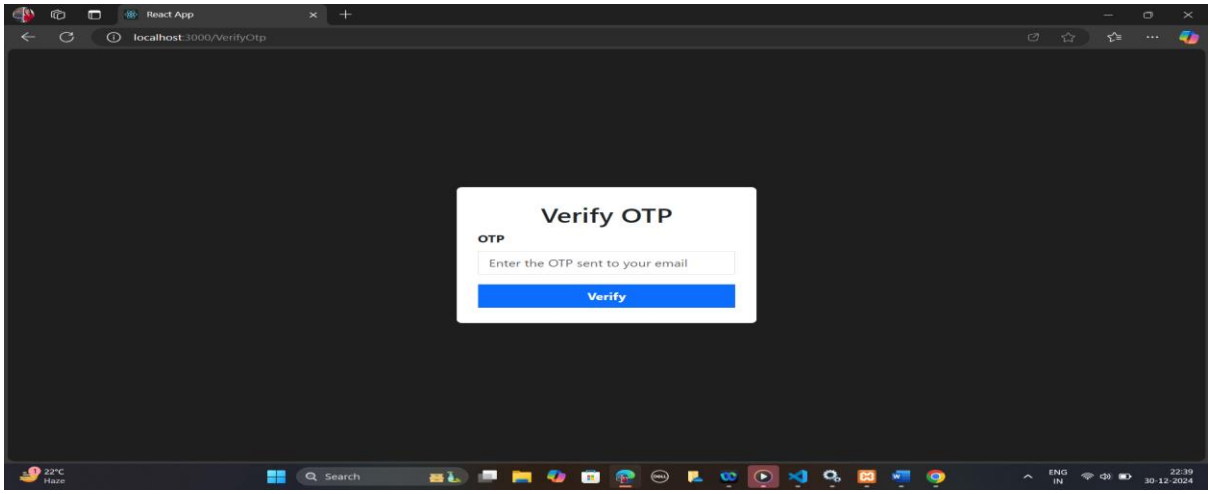
Signup Page :



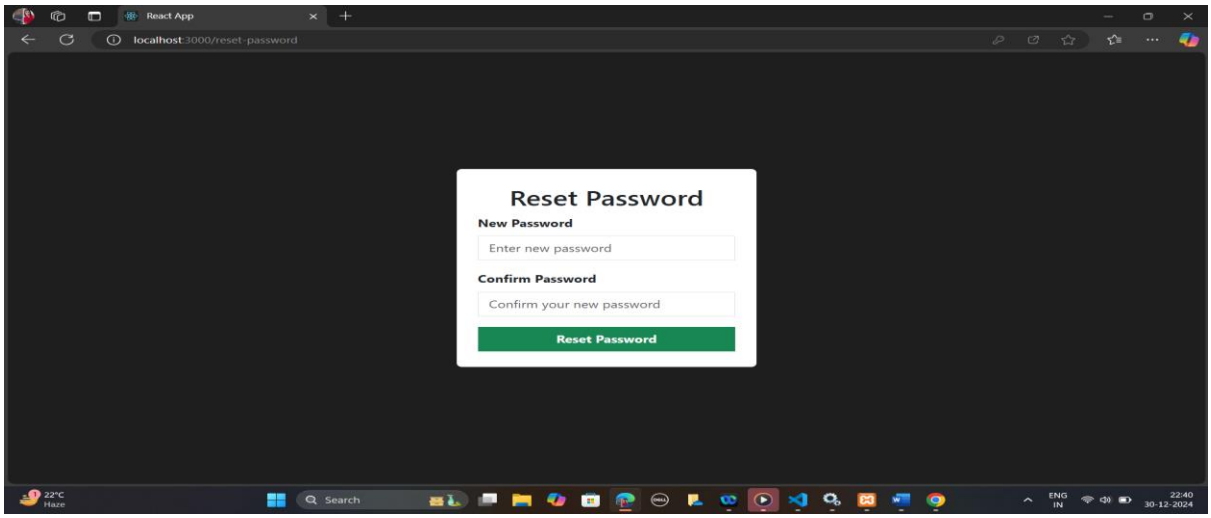
Forgot Password Page :



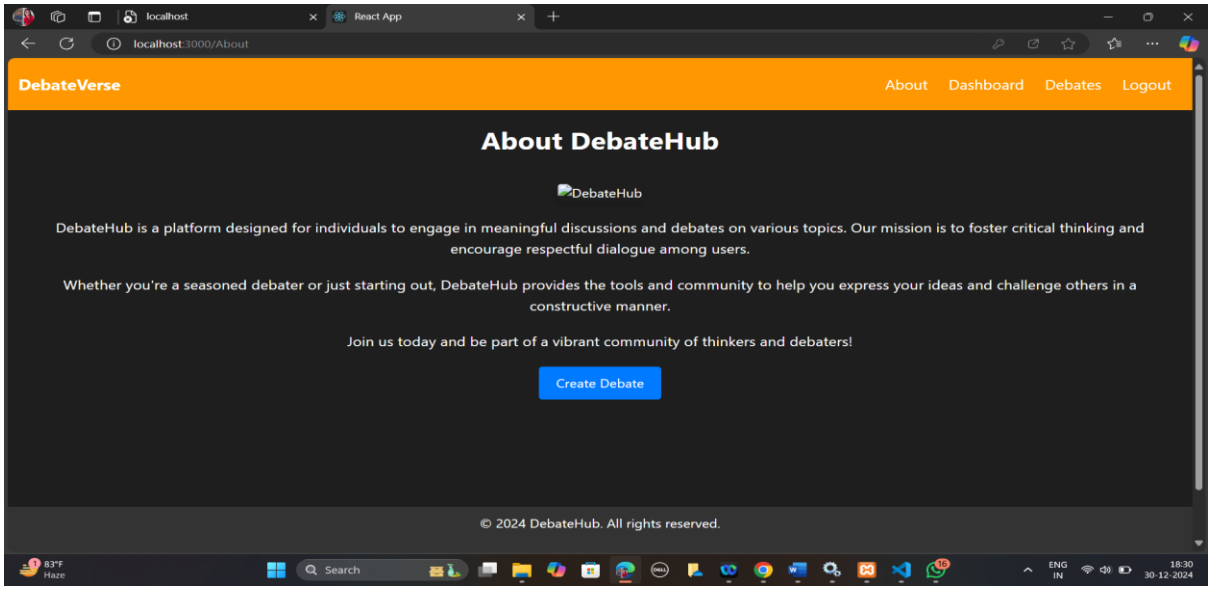
Verify-otp page



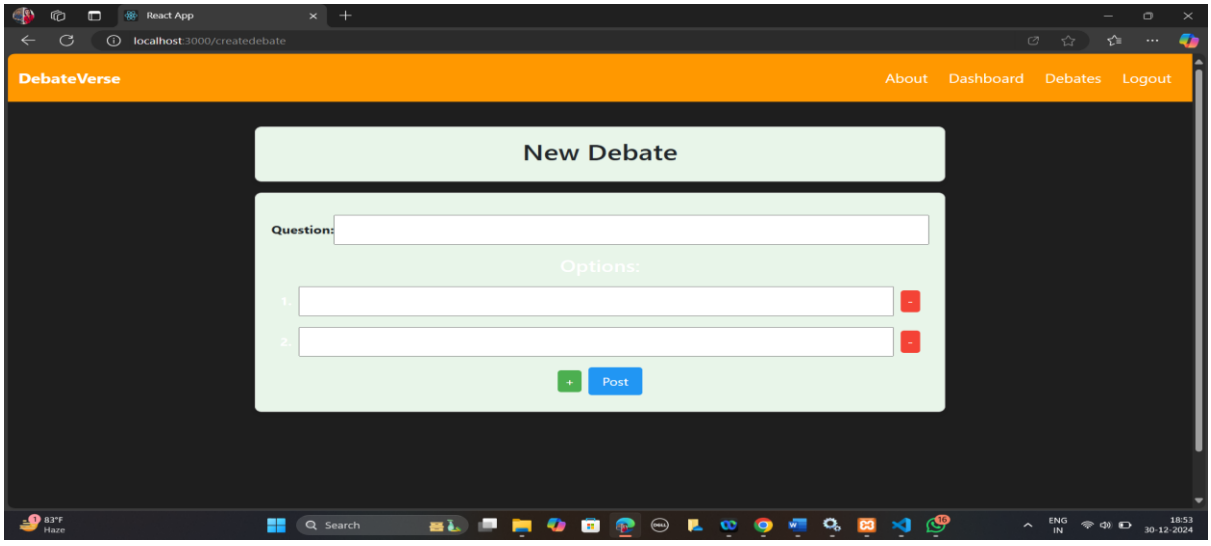
Reset Password Page :



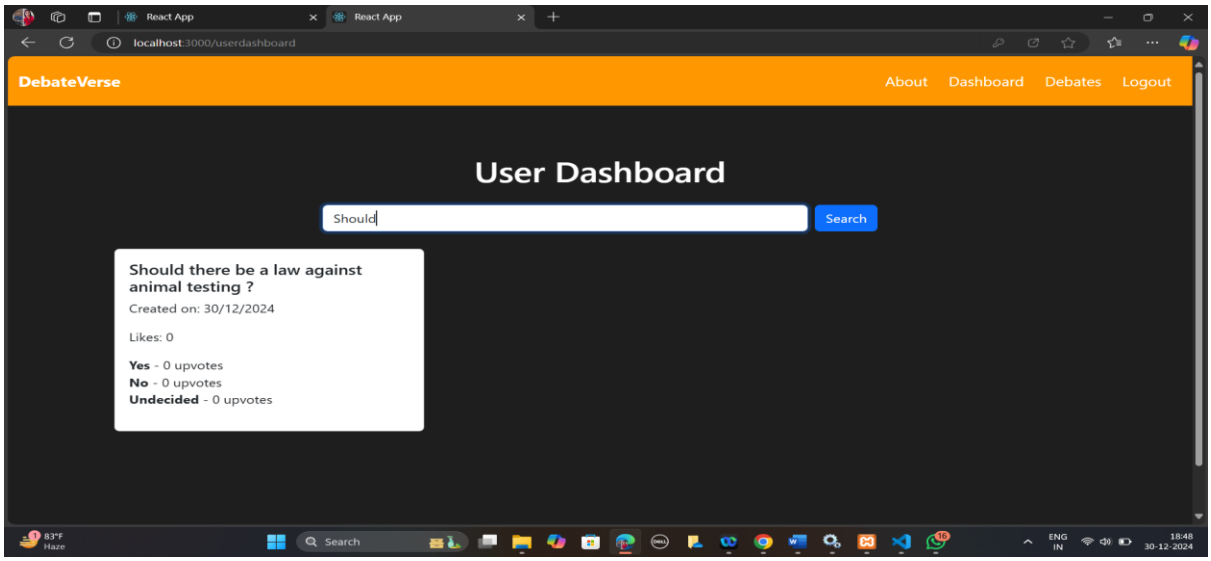
About Page :



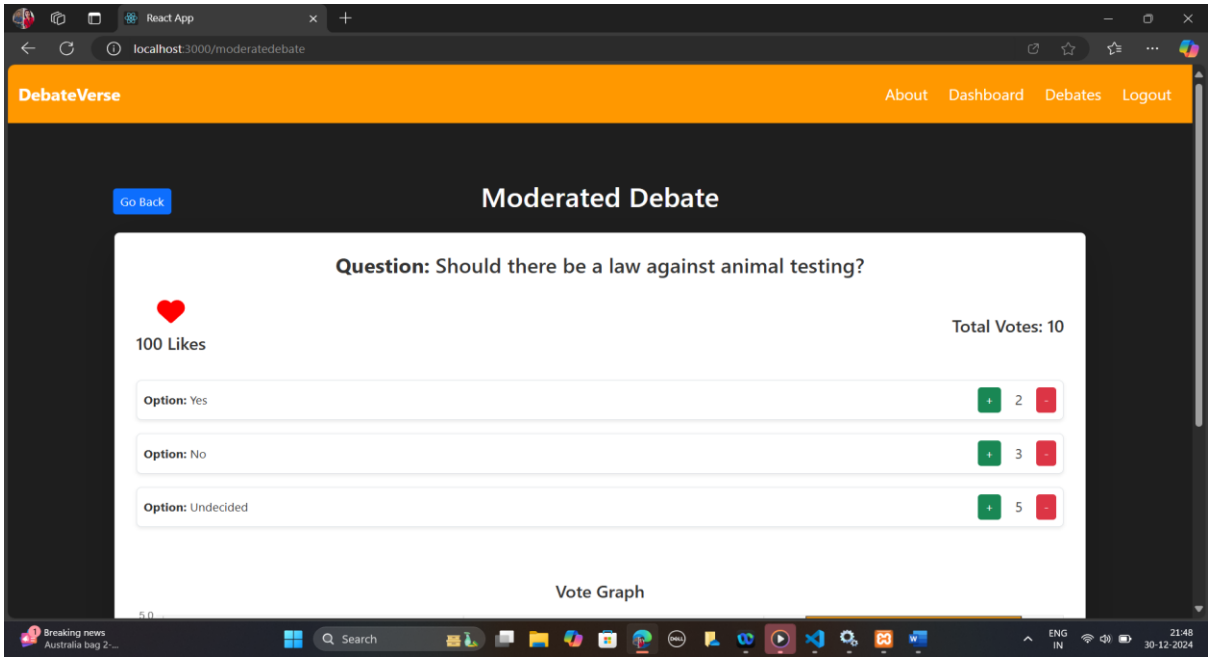
Create Debate Page :

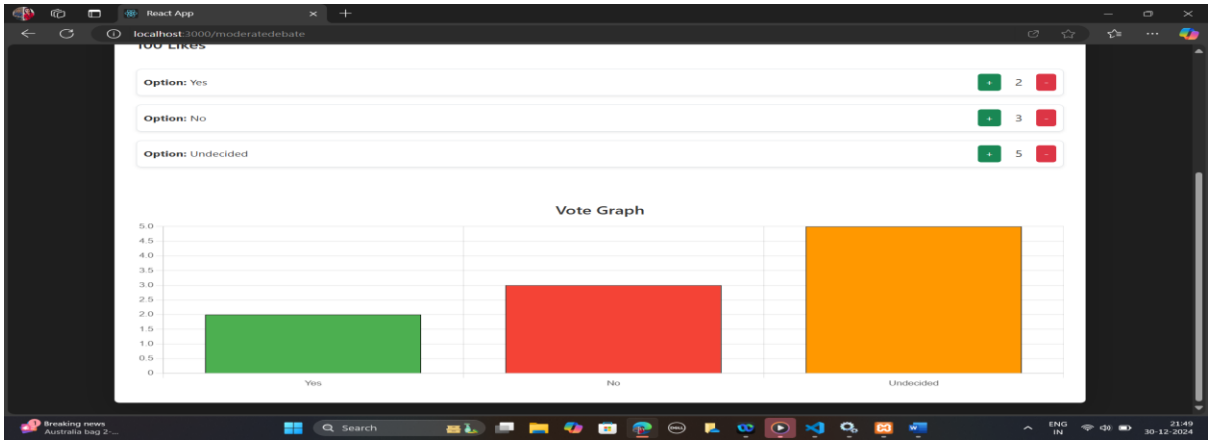


User Dashboard page :

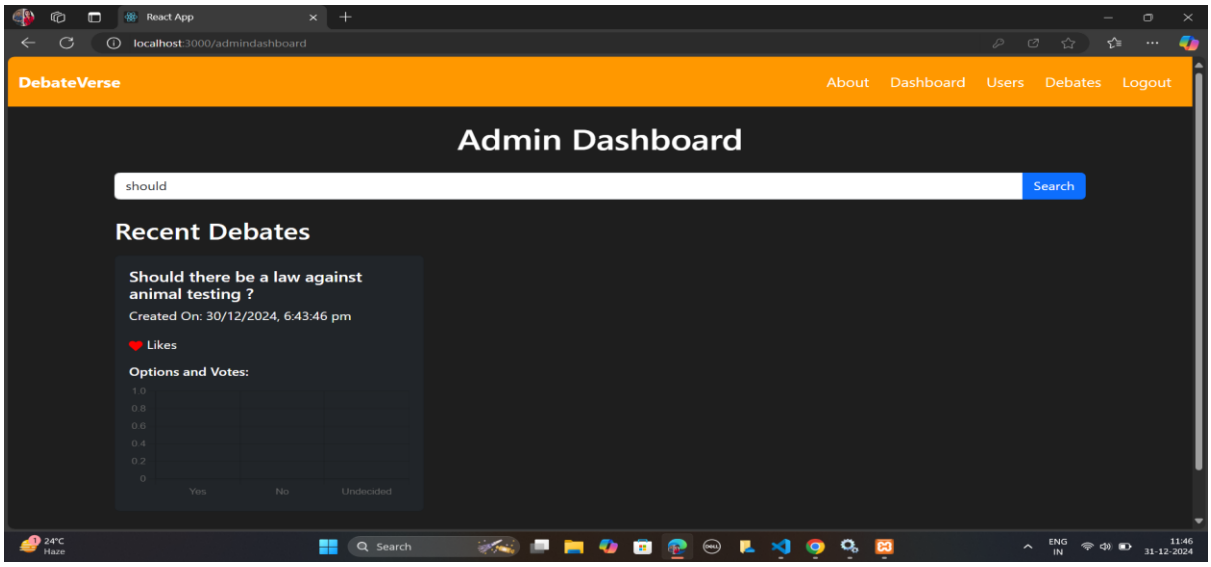


Moderate Debate page for user :

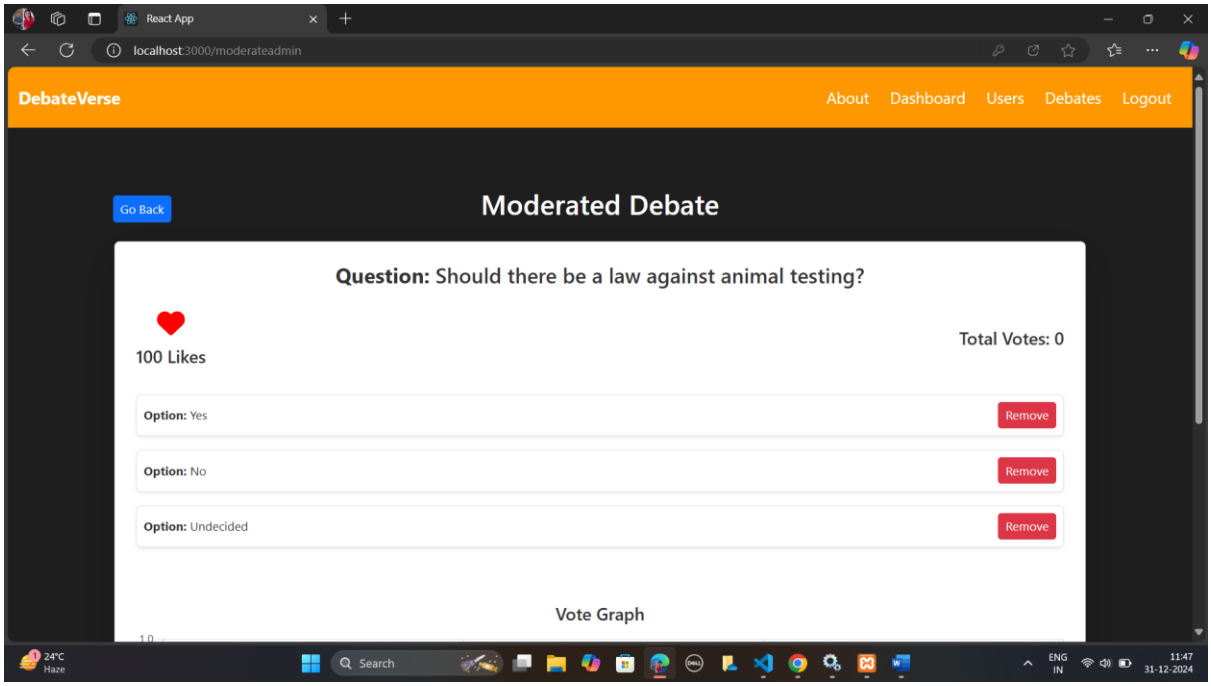




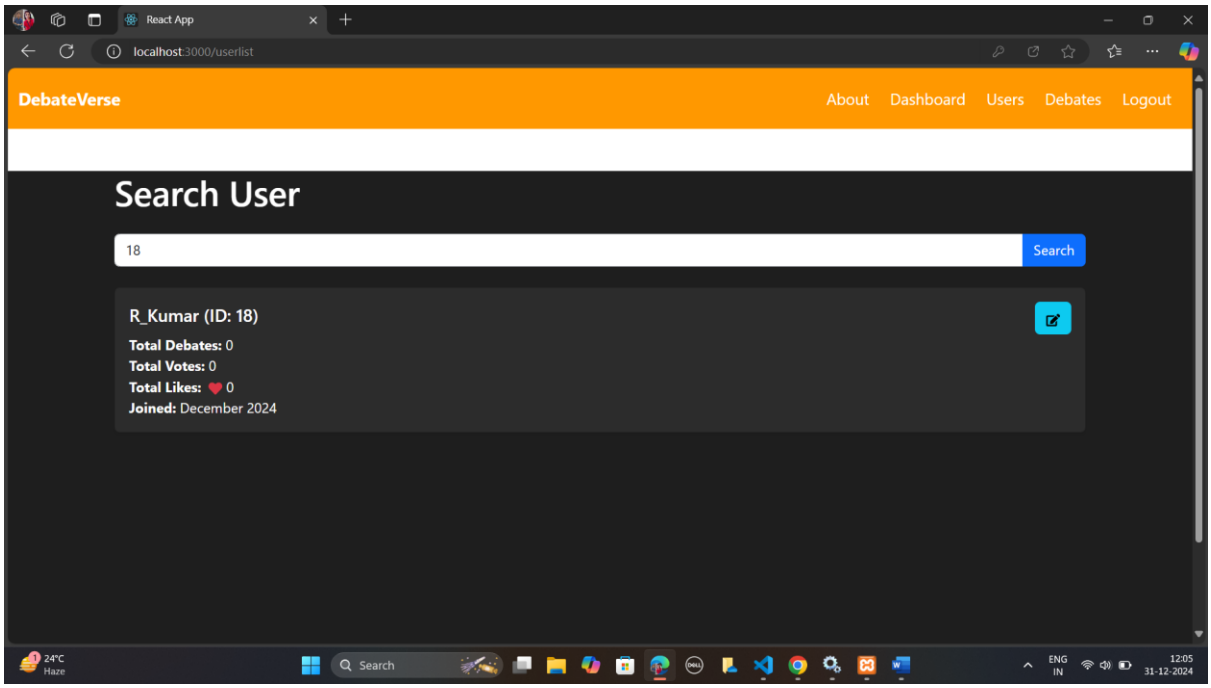
Admin Dashboard Page :



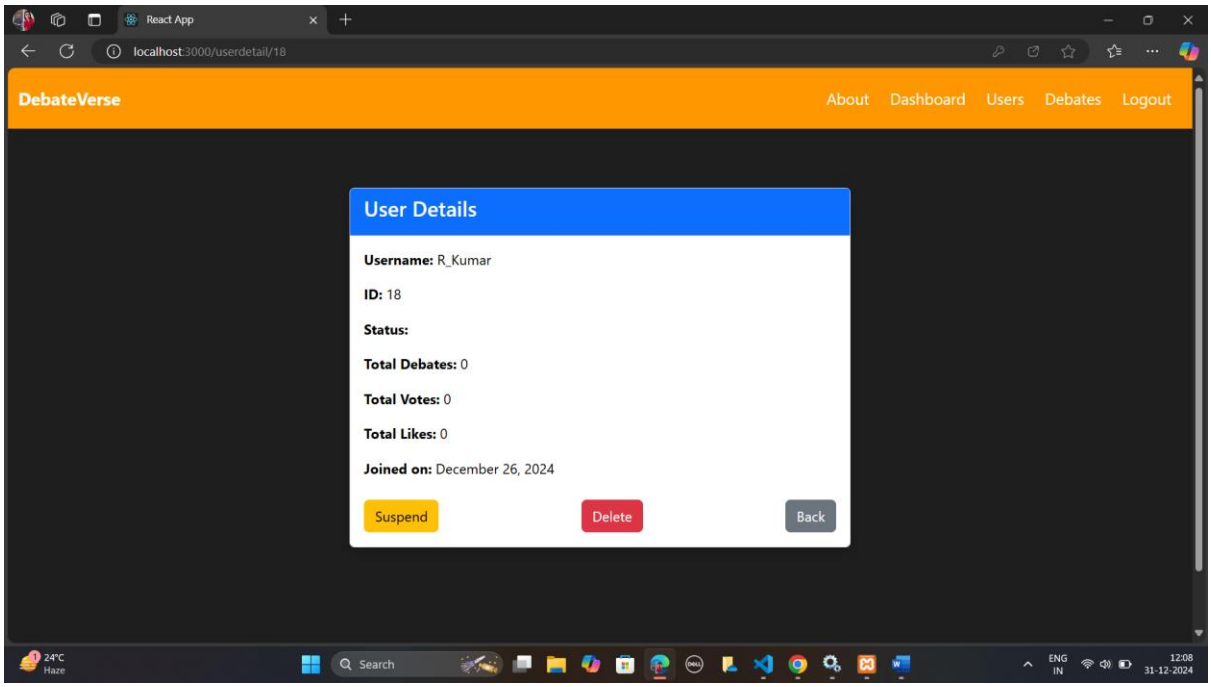
Moderate Debate page for admin :



Search User page :



User Detail page :



Conclusion

DebateVerse is a powerful web application that combines social interaction with structured debate. By using React, Node.js, and MySQL, it provides users with a seamless experience for engaging in thought-provoking discussions and voting on multiple viewpoints. The platform encourages participation, transparency, and user engagement, while also offering moderators the tools needed to maintain order. This project demonstrates the capabilities of modern web development technologies to create an interactive, scalable, and user-friendly platform.