

Full Stack Development with MERN

Frontend Development Report

Date	14 July 2024
Team ID	SWTID1719923176
Project Name	Project - Freelance Finder : Discovering Opportunities, Unlocking Potential.
Maximum Marks	

Project Title:

Freelance Finder : Discovering Opportunities, Unlocking Potential.

Date: 14 July 2024

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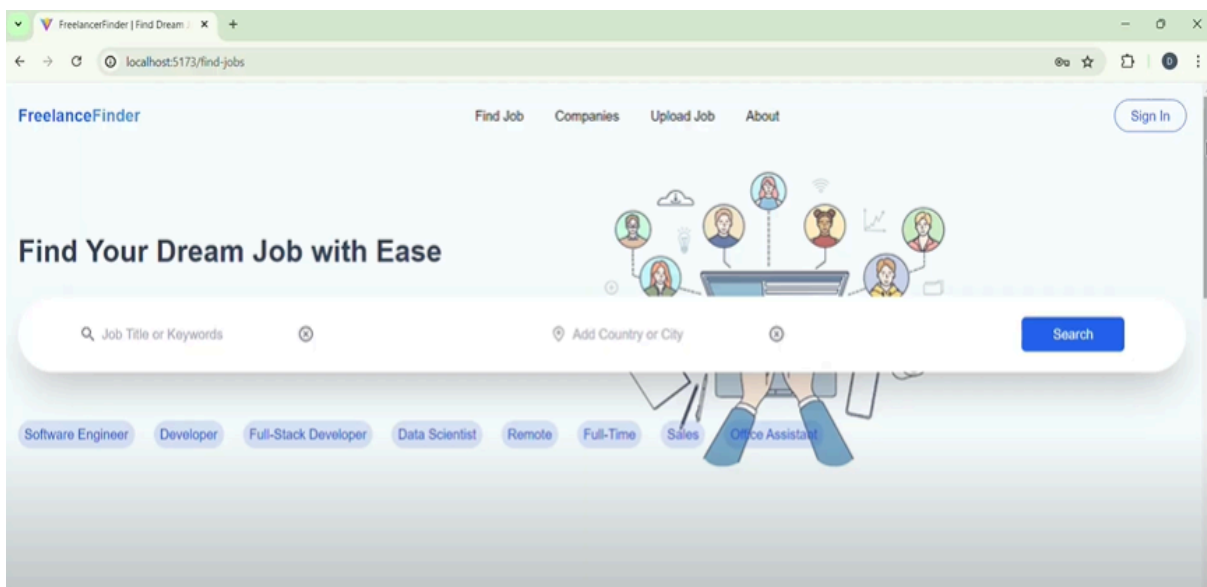
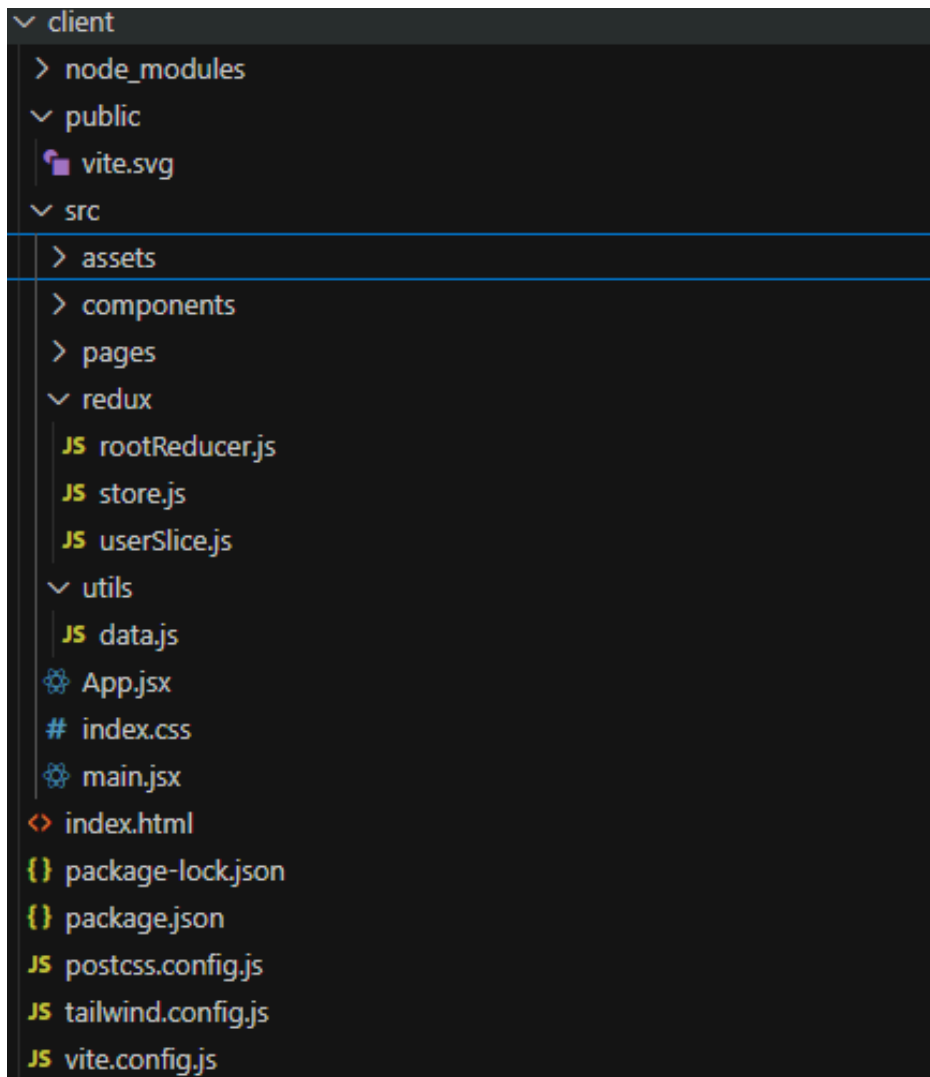
Objective

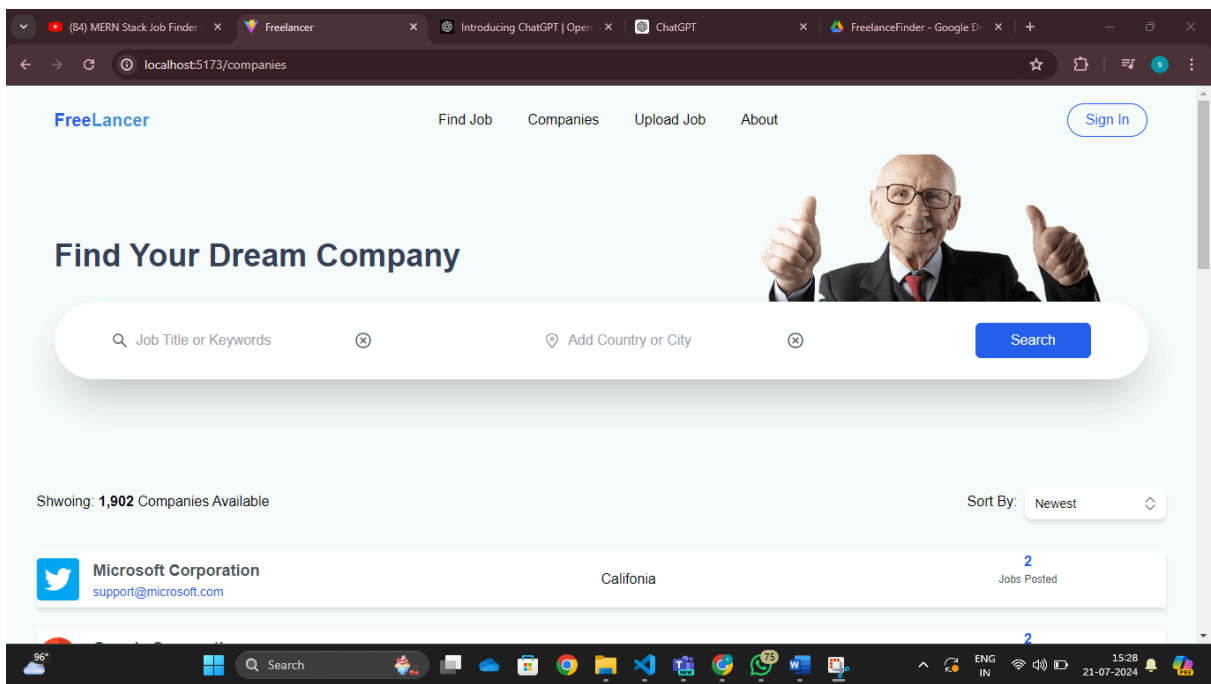
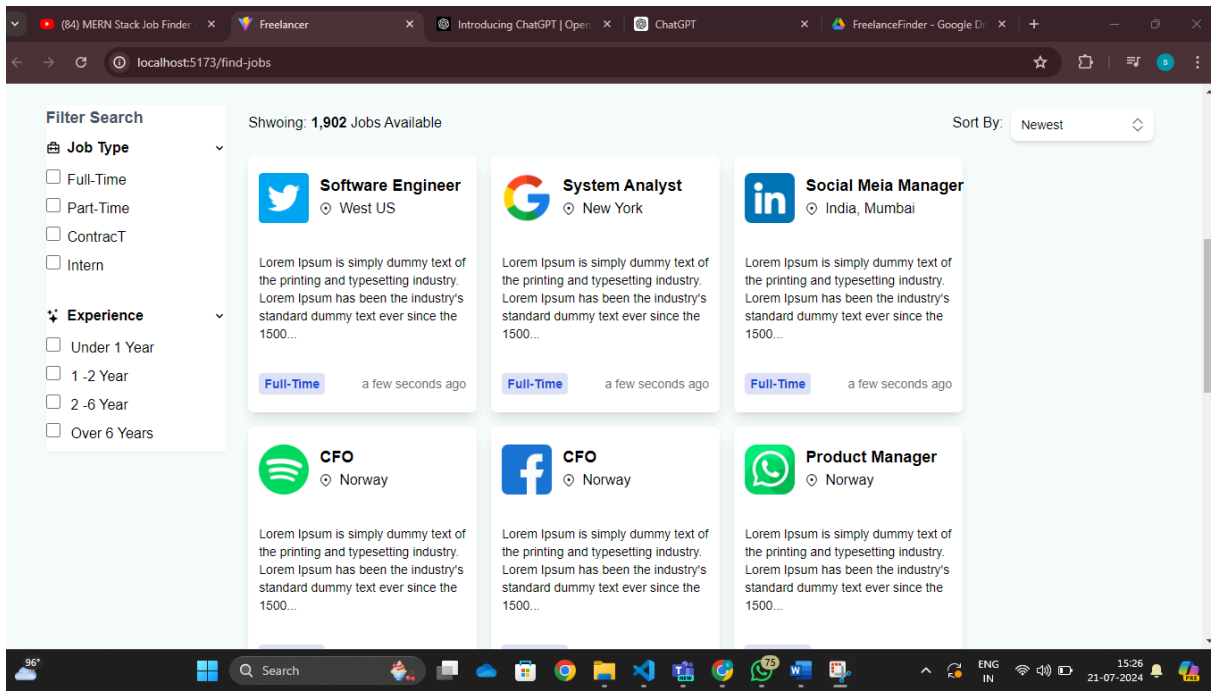
The objective of this report is to document the frontend development progress and key aspects of the user interface implementation for the FreelanceFinder project.

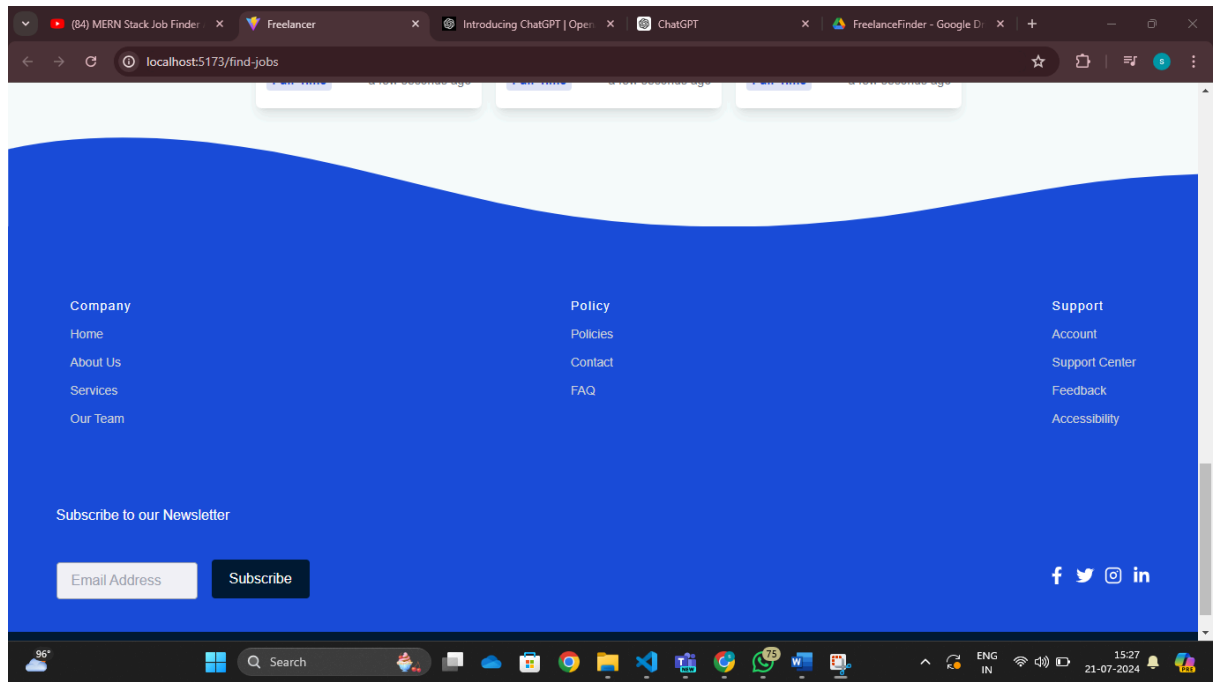
Technologies Used

- **Frontend Framework:** Reactjs, Tailwind, CSS
- **State Management:** Redux
- **UI Framework/Libraries:** MongoDB, ExpressJs, Reactjs, NodeJs, and tailwind css
- **API Libraries:** Axios

Project Structure







Key Components

1. **App.js**
 - Responsible for routing and main application layout.
2. **/components**
 - Contains reusable UI components used across the application.
3. **/pages**
 - Includes different pages for Web App.
4. **/redux**
 - for state management

Routing

Routing is managed using React Router. Here are the main routes:

- **/home** - Landing page of the application.
- **/dashboard** - Dashboard displaying user data and statistics.
- **/profile** - User profile management.

State Management (If Applicable)

State management is achieved using Redux

Integration with Backend

Integration of the frontend and backend of our MERN Stack FREELANCE FINDER application using MongoDB, ExpressJs, Reactjs, NodeJs, and tailwind css for styling our UI. Then after everything, we will deploy it to the internet.

User Interface (UI) Design

UI Design Principles

The UI design follows several key principles to ensure a high-quality user experience:

- **Simplicity:** Keeping the interface clean and uncluttered to avoid overwhelming users.
- **Consistency:** Using consistent design elements and behavior across the site for better usability.
- **Feedback:** Providing immediate feedback to users' actions, such as button clicks and form submissions.
- **Accessibility:** Ensuring the website is usable by people with a wide range of abilities and disabilities.
- **Aesthetics:** Creating a visually appealing interface that enhances user satisfaction.

UI Framework/Library

The UI was implemented using **Material-UI**, a popular React component library that provides a set of high-quality, customizable components based on Google's Material Design principles. Material-UI was chosen for its:

- **Pre-built Components:** Ready-to-use components that speed up development.
- **Customization Options:** Ability to customize components to fit the design requirements.
- **Responsive Design:** Built-in responsiveness to ensure a great experience on all devices.
- **Community Support:** Active community and extensive documentation for quick problem-solving.