# Full Stack Development with MERN Frontend Development Report

Date	10 July 2024
Team ID	SWTID1720101616
Project Name	Project – Video Sharing App MERN

# **Project Title: Video Sharing App MERN**

Date: 10-07-2024

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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 [Your Project Title] project.

# **Technologies Used**

Frontend Framework: React.jsState Management: Redux

• UI Framework/Libraries: Material-UI

• **API Libraries:** Axios

## **Project Structure:**

- ✓ client
  - > node\_modules
- ∨ public
- index.html
- ∨ src
- ∨ components
- ⇔ Card.jsx
- ⇔ Comment.jsx
- ⇔ Comments.jsx
- Dropdown.jsx
- Menu.jsx
- ⇔ Navbar.jsx
- ☼ Recommendation.jsx
- ⇔ Upload.jsx
- ∨ img
- logo.png
- √ pages
- ⇔ Home.jsx
- ⇔ Profile.jsx
- ⇔ Search.jsx
- ⇔ SignIn.jsx
- ⇔ Video.jsx
- √ redux
- JS store.js
- JS userSlice.js
- Js videoSlice.js
- ∨ utils
- JS Theme.js
- JS App.js
- JS firebase.js
- Js index.js
- .gitignore
- {} package-lock.json
- {} package.json
- README.md
- 👃 yarn.lock

## **Key Components**

#### 1. **App.js**

• Handles routing and sets up the main application layout, ensuring navigation between different pages.

#### 2. /components

- Contains reusable UI components for consistent design and functionality across the app.
- o Card.jsx: Displays individual video thumbnails and basic information.
- o **Comment.jsx:** Renders a single comment with user details and timestamp.
- o **Comments.jsx:** Manages and displays a list of comments for a video.
- o **Dropdown.jsx:** Displays Dropdown menu for displaying profile, logout option.
- Menu.jsx: Provides a navigation menu for different app sections.
- o **Navbar.jsx:** Displays the top navigation bar with links and user info.
- Recommendation.jsx: Shows recommended videos based on user preferences or current video.
- Upload.jsx: Handles the video upload form and submission process.

## 3. /pages

- Contains different pages for the web application, each serving a specific purpose.
- o **Home.jsx:** Displays the homepage with a feed of videos and categories.
- o **Search.jsx:** Manages and displays search results for videos and users.
- o **Signin.jsx:** Provides the sign-in form for user authentication.
- o **Video.jsx:** Displays a specific video, its details, and related comments.

## **Routing**

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

- / home page of the application.
- /signin logging page for user
- /video view page of particular video.

## **State Management**

State management is achieved using Redux API.

### **Integration with Backend**

The frontend communicates with the backend APIs hosted on Local Host. Key endpoints include:

- **GET /api/video** Retrieves videos for display.
- **POST** /api/user/signin Handles user authentication.

