# **Nxt Assess - Project Overview**

### **NxtWatch - Project Overview**

A video streaming platform inspired by YouTube. Built using React.js with authentication, video playback, dark/light mode, and responsive UI.

#### **Key Features**

- JWT-based User Authentication
- Home, Trending, and Gaming Video Browsing
- Video Detail View with react-player
- Like / Dislike / Save Video Interactions
- Saved Videos Library
- Light/Dark Theme Toggle
- Responsive Design
- Logout Confirmation & Mobile Menu Popup
- 404 Not Found Handling

### **Tech Stack**

- Frontend: React.js, React Router, Context API
- Styling: Styled Components, CSS
- State Management: Context API
- HTTP: Fetch API with JWT
- Video Playback: react-player
- Routing: react-router-dom
- Icons: react-icons

#### **API Integration**

- Login API: https://apis.ccbp.in/login (POST)
- Home Videos API: https://apis.ccbp.in/videos/all (GET)

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- Trending Videos API: https://apis.ccbp.in/videos/trending (GET)

- Gaming Videos API: https://apis.ccbp.in/videos/gaming (GET)

- Video Details API: https://apis.ccbp.in/videos/{id} (GET)

### **Challenges & Solutions**

Challenge: Restricting Unauthorized Access

Solution: Implemented ProtectedRoute Component

Challenge: Handling API Errors

Solution: Added loaders, error views, and retry button

Challenge: Managing Saved Videos & Theme

Solution: Used React Context API

Challenge: Mobile Responsiveness

Solution: Applied Flexbox/Grid with Styled Components

#### **Future Enhancements**

- User Profiles for personalization
- Comments Section on video details
- Recommended Videos based on watch history
- Offline Mode with video caching

#### Conclusion

NxtWatch demonstrates modern React.js development with interactive video features, dynamic themes, protected routing, and clean architecture. Built for responsiveness and user experience.