NULLCLASS INTERNSHIP REPORT

Introduction

This report explains how we built a web app with a custom video player. The player has features like points for watching videos, gesture controls, weather info display, and video calling (VoIP).

Background

The goal was to make watching videos more interactive and fun. We added features to give points for watching, control the video with gestures, show local weather, and let users make video calls.

Learning Objectives

Create a points system for watching videos.

Add gesture controls to the video player.

Show weather info based on the user's location.

Enable video calls at specific times.

Activities and Tasks

Points System: We wrote code to give points when users watch videos.

Gesture Controls: We added controls like double-tap to skip 10 seconds and triple-tap to play the next video.

Weather Info: We used WeatherAPI to get and show the current weather based on the user’s location.

VoIP: We added video call functionality with WebRTC, but only allowed calls between 6 PM and 12 AM.

Skills and Competencies

JavaScript: For adding interactivity and features.

HTML/CSS: For structuring and styling the web page.

APIs: For fetching weather data.

WebRTC: For enabling video calls.

User Experience (UX): For making the features easy to use.

Feedback and Evidences

Users tested the app and liked the new features, especially the gesture controls and points system. Some issues with gesture detection were fixed based on their feedback.

Challenges and Solutions

Gesture Detection: We adjusted the code to better detect user gestures.

Weather Data: We added error handling for location and API issues.

VoIP: We tested and optimized the video call setup to work smoothly.

Outcomes and Impact

The project successfully added new features to the video player. Users found the app more engaging and fun. The points system motivated them to watch more videos, and the gesture controls improved their viewing experience. The weather info and VoIP features added extra value.

Conclusion

This project showed how to make a video player more interactive and engaging. The points system, gesture controls, weather info, and VoIP features worked well and improved the user experience. Future improvements could include more gesture options and better VoIP functionality.