

# Overview

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This project demonstrates my ability to build full-featured, role-based web and mobile software using modern JavaScript tools. I created a time-tracking app where admins can manage users and view submitted logs, while users can clock in, clock out, and manually log time.

The purpose was to deepen my skills with JavaScript syntax, state management, asynchronous operations, and integration with real-time databases like Firebase. This app also highlights my ability to implement authentication, user permissions, and Firestore querying using JavaScript logic.

[https://youtu.be/6FfWjxKFNuY?si=Dk\\_7Sjo5uOFC3u8D](https://youtu.be/6FfWjxKFNuY?si=Dk_7Sjo5uOFC3u8D)

Development Environment Code Editor: Visual Studio Code

Runtime: Node.js

Framework: React Native (via Expo)

Database: Firebase Firestore

Authentication: Firebase Auth

Navigation: Expo Router

Version Control: GitHub

# Programming Language & Libraries

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JavaScript (ES6+)

React Native / React Context API

Firebase SDK (Firestore, Auth)

Expo (for fast mobile development)

Useful Websites React Native Docs

Expo Documentation

Firebase Docs

MDN JavaScript Reference

Stack Overflow

# Future Work

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Add filtering and sorting of time logs for admins

Enable log editing by admin (with audit trail)

Add real-time sync and push notifications

Export user logs to CSV or PDF

Display summary statistics (e.g., total hours/week)

Add geolocation features for clocking in/out

Introduce dark mode and accessibility improvements