To: Denis Wachira

From: Joshua Kimani Ngigi

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Subject: Week 8 Report

Overview

This report outlines the progress made during this week's training sessions. The primary focus was on improving our understanding of state management, routing, and UI development within modern React applications. Through guided lessons and hands-on practice, we strengthened our ability to build structured, scalable, and responsive interfaces.

Training Modules Covered[summarized]

This week's training covered the practical use of Redux Toolkit for efficient global state management, the integration of Redux Toolkit Query for streamlined data fetching and caching, and the implementation of React Router v7 for modern routing patterns. We also explored building responsive, reusable interface components using React with Tailwind CSS and DaisyUI while implementing Redux PersistGate to ensure persistent state across page reloads. All topics were reinforced through small exercises that combined routing, global state, and UI styling into cohesive application features.

Challenges Faced

- Understanding RTK Query's caching and invalidation behavior and Adjusting to the updated patterns introduced in React Router v7.

Learning Outcomes

- Strengthened skills in state and API management with Redux Toolkit and RTK Query.

- Improved confidence in implementing modern routing structures, enhanced ability to build styled and responsive UI components, and learned how to persist Redux state effectively using Redux PersistGate.

Next Steps

- Practice more advanced Redux and routing patterns and begin integrating authentication into future project tasks.

Feedback and Recommendations

- Positive Feedback: Hands-on exercises provided clear, practical understanding of each concept.
-Recommendation: additional examples involving combined routing and API workflows would further help in mastering the tools.

Joshua Kimani Ngigi