### Work done on Plan-Studies

#### Testing Summary

1. AdminDashboard Tests  
   • Coverage: Correct component rendering, search functionality, and filter selection.  
   • Outcome: Passed – Ensures correct dashboard behavior.
2. Basic Component Tests  
   • Coverage: Component rendering, state updates, and routing.  
   • Outcome: Passed – Validates core component functionality.
3. CreateAccount Tests  
   • Coverage: Form rendering, input handling, password validation, account creation.  
   • Outcome: Passed – Verifies comprehensive account creation and error handling.
4. Login Tests  
   • Coverage: Form rendering, input handling, successful and failed login attempts, “Remember Me” functionality.  
   • Outcome: Passed – Ensures login functionality is robust and reliable.

#### Recent Development Activities

• Testing Modules

* Developed all test modules necessary for comprehensive component and logic testing.

• Update Backend  
• Details: Modified Backend/server.js for cleanup and efficiency. Adjusted src/components for dashboard consistency.  
• Challenge: Addressed backend process efficiency.

• Module Modification  
• Details: Restructured import/export modules across components to enhance maintainability and consistency.  
• Challenge: Avoided circular dependencies and improved module clarity.

• Route Configuration  
• Details: Working on defining and organizing routes for PlanStudies modules.  
• Challenge: Ensuring clear navigation and component integration.

• Login Functionality  
• Details: Implemented login logic with proper state handling and user session storage.   
• Challenge: Ensured authentication flow is secure and smooth.

• Dependency Fixes  
• Details: Resolved outdated or conflicting package dependencies across the project.  
• Challenge: Prevented build-time errors and ensured compatibility.

• Console Cleanup  
• Details: Cleared all console errors and warnings to ensure a clean development and build environment.  
• Challenge: Enabled successful builds and minimized noise in debugging.

• Course Finder Update  
• Details: Enhanced logic in Backend/server.js and src/components/StudentDashboard.jsx.  
• Challenge: Improved course finding capabilities and backend integration.

• Redesigned Sign Up Page  
• Details: UI enhancements and form behavior refinements in CreateAccount.jsx and associated styles.  
• Challenge: Improved user interface for signup.

• Update Log In Page  
• Details: Visual enhancements and bug fixes in Login.jsx.  
• Challenge: Enhanced user experience and fixed layout issues.

• Dashboard Code Improvements  
• Details: Refactoring and performance optimizations in src/components/AdminDashboard.jsx and StudentDashboard.jsx.  
• Challenge: Maintain code readability and backend compatibility.

• Backend Integration Improvements  
• Details: Enhanced StudentDashboard.jsx integration with updated backend APIs.  
• Challenge: Ensured seamless data sync and UI state updates.