

ARIBO IFEOLUWA – 300389564
PROJECT PROGRESS REPORT 4 SUMMARY (26th OCTOBER – 8th NOVEMBER)

Over the last two weeks, I focused on enhancing the app's AI conversation features, refining backend integration with Supabase, and improving the caregiver dashboard's user interface and functionality. Key tasks included integrating the OpenAI API, resolving database schema and security issues, optimizing caregiver-patient relationship management, and delivering a polished, professional UI for caregivers. Work also involved fixing critical bugs, implementing real-time updates, managing multiple clients efficiently, and enhancing health monitoring modules. All changes maintained existing functionality while introducing new features, ensuring robust data handling, and providing a responsive, user-friendly experience across the app.

Date	Number of Hours	Description of Work Done
30 th October 2025	6.5 hours	<ul style="list-style-type: none">- Modified AI conversation screens for improved usability and flow.- Integrated OpenAI API into the app, handling request-response cycles and error management.- Refactored front-end components to support dynamic AI responses.- Tested end-to-end functionality to ensure seamless user interaction with the AI feature.

30 th October 2025	3.5 hours	<ul style="list-style-type: none"> - Merged the supabase branch into the main branch, preserving all new backend files and updates. - Resolved merge conflicts in configuration and component files. - Verified database connections, authentication logic, and data consistency post-merge.
31 st October 2025	2.5 Hours	<ul style="list-style-type: none"> - Updated caregiver_relationships_schema.sql to refine table constraints and relationships. - Ensured referential integrity between caregivers, patients, and requests. - Performed local schema migrations and validated changes against Supabase.
2 nd November 2025	4.5 hours	<ul style="list-style-type: none"> - Fixed targetUserId reference errors in caregiver and patient mapping logic. - Updated dashboard data-fetching logic to correctly display caregiver assignments and patient details. - Tested user mapping flows to ensure accurate linking and display of relationships.
5 th November 2025	5 hours	<ul style="list-style-type: none"> - Resolved blood pressure module bug: set the value field to use systolic input when saving readings. - Tested input forms, validation, and database save operations to ensure accurate health data recording.

8 th November 2025	4 hours	<ul style="list-style-type: none"> - Created reject_caregiver_request() SECURITY DEFINER function in Supabase to handle request rejection securely. - Updated rejectRequest() frontend logic to use the new function with fallback handling. - Resolved row-level security policy issues affecting request management.
8 th November 2025	2 hours	<ul style="list-style-type: none"> - Fixed issue allowing caregivers to resend connection requests after rejection. - Ensured rejected requests do not block new requests while maintaining data integrity.
8 th November 2025	4 hours	<ul style="list-style-type: none"> - Redesigned CaregiverDashboardScreen UI for a professional look and feel. - Added client tiles for accepted clients, a welcome message, notifications bell with real-time updates, and logout/settings buttons. - Introduced a modern “Add Client” button to improve navigation and usability.
8 th November 2025	3 hours	<ul style="list-style-type: none"> - Further refined caregiver dashboard layout for clarity and responsiveness. - Improved styling, spacing, and alignment of UI elements. - Ensured consistent and professional appearance across screen sizes and devices.

Description

During this period, I advanced the app's capabilities by integrating AI-powered conversation features using the OpenAI API, enabling dynamic and responsive user interactions. I also strengthened the backend by finalizing the transition to Supabase, resolving critical database schema issues, and implementing secure functions for managing caregiver-patient relationships. On the frontend, I enhanced the Caregiver Dashboard with a modern, intuitive design, improving both usability and visual appeal. Throughout, I maintained a focus on data accuracy, security, and seamless user experience, ensuring all new updates worked harmoniously with existing features.

Repository Check-in

- Integrated and tested OpenAI API implementation in the main branch.
- Merged supabase branch into main, retaining all backend and frontend improvements.
- Updated and version-controlled database schema and security functions.
- Pushed refactored caregiver dashboard UI components and AI conversation modules.
- Resolved and committed bug fixes for blood pressure logging and caregiver request flows.