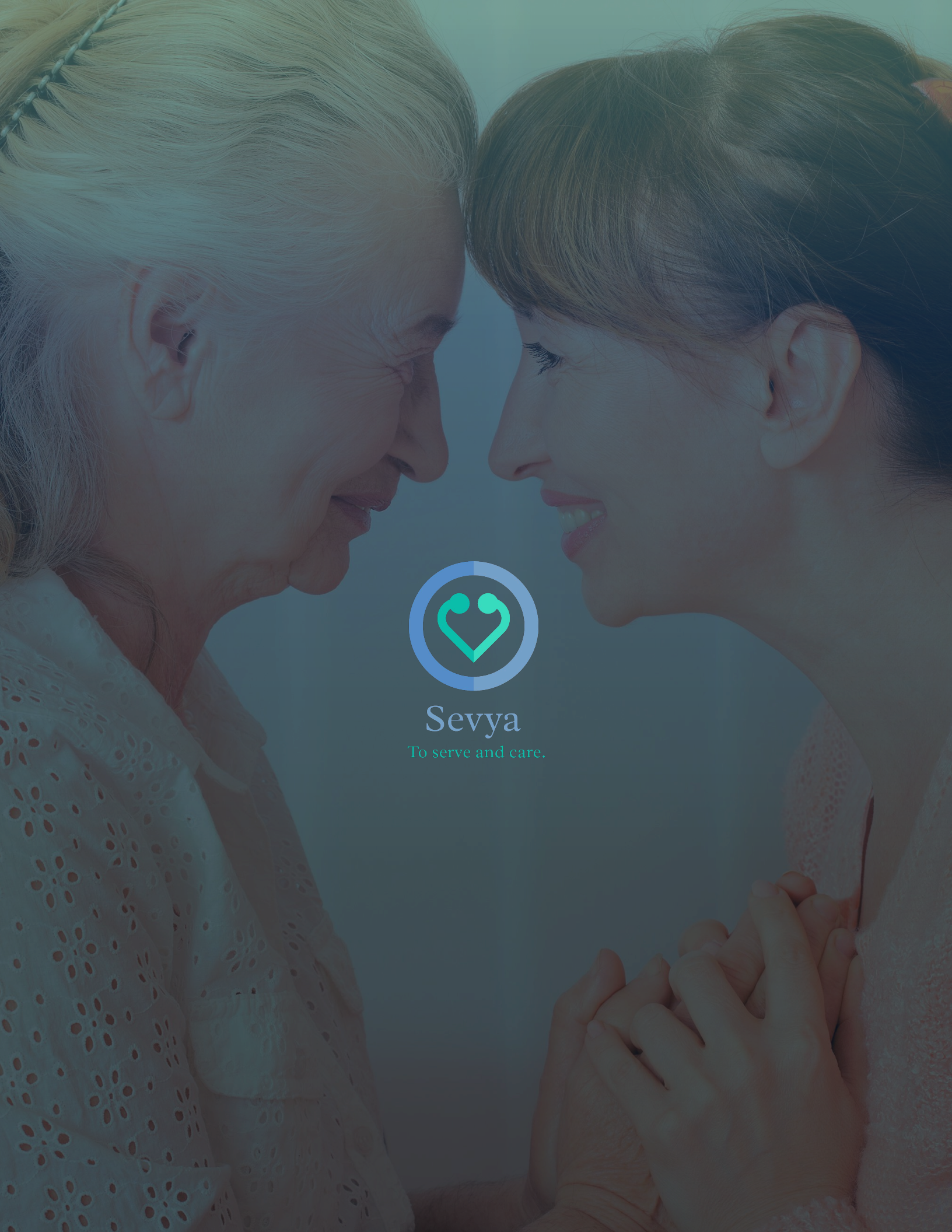
Sevya
To serve and care.

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Project Overview

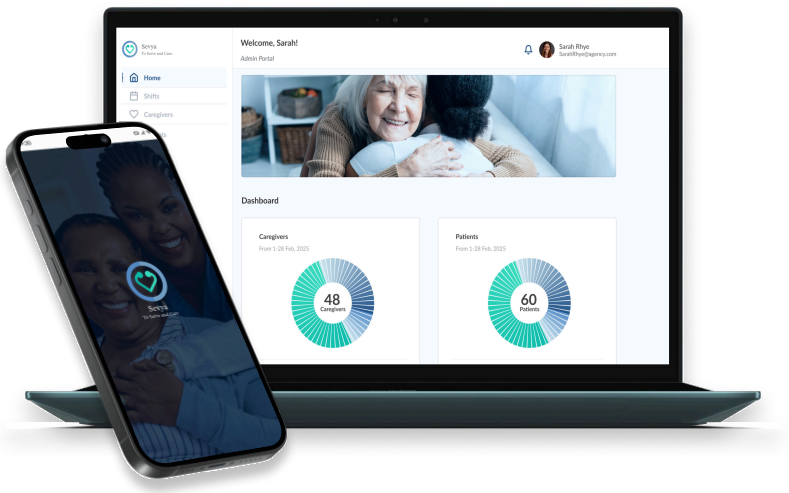
Project Overview

Sevya is a mobile and web-based platform designed to streamline caregiving for home care aides, agencies, and families.

It simplifies patient documentation, shift management, leverages AI to generate personalized care plans and provides multilingual support to assist caregivers from diverse backgrounds.

Integrated. Practical.

By integrating smart scheduling, automated alerts, and real-time updates, Sevya enhances caregiving efficiency, reduces administrative burdens, and improves patient outcomes.



To serve and care.

Problem Statement

Home care aides play a crucial role in providing essential support to patients in non-hospital settings. In Canada, it is estimated that there are 8.4 million caregivers and 5,223 home care provider businesses.

Challenges

Even though it is a promising market, agencies face challenges such as:

- Inefficient documentation;
- Lack of caregiver`s activities track;
- Difficulty managing shifts;
- Limited access to patient history.

Additionally, agencies struggle to ensure an efficient hand off and provide personalized care plans.

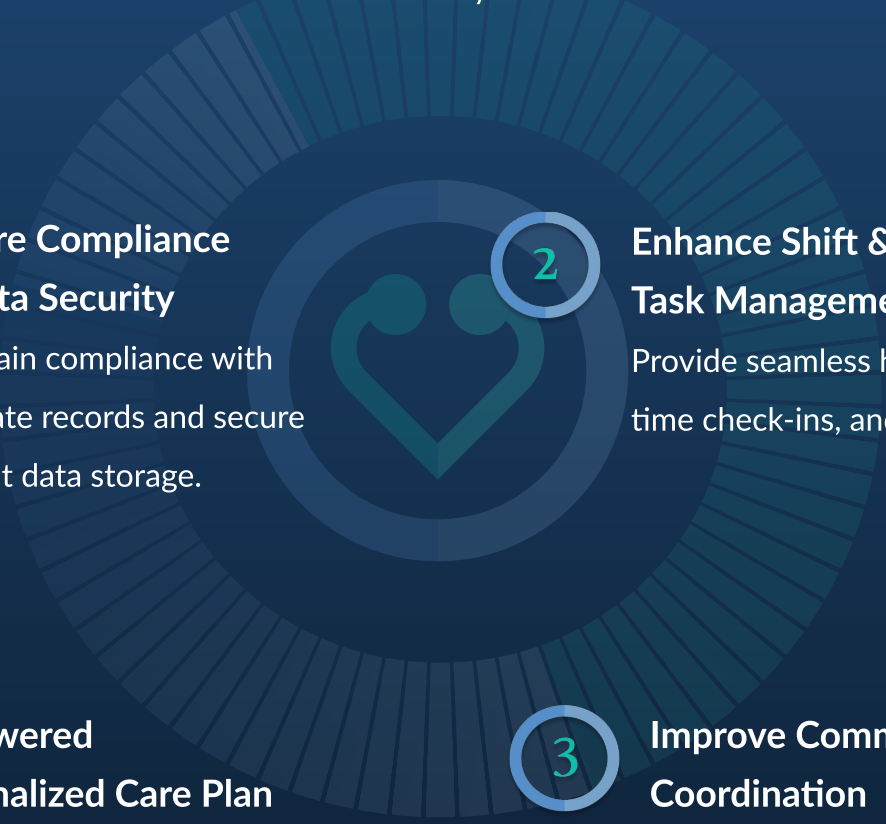
This results in fragmented caregiving, miscommunication, and inconsistent patient care.

Solution

1

Streamline Documentation & Records

Enable caregivers to log updates easily with voice-to-text, notes, and photos while centralizing medical history and vital records.



2

Enhance Shift & Task Management

Provide seamless handoffs, real-time check-ins, and schedules.

3

Improve Communication & Coordination

Enable real-time updates, notifications, and multilingual support for caregivers.

4

AI-Powered Personalized Care Plan

Use predictive analytics to generate tailored care plans, schedules, and therapy recommendations.

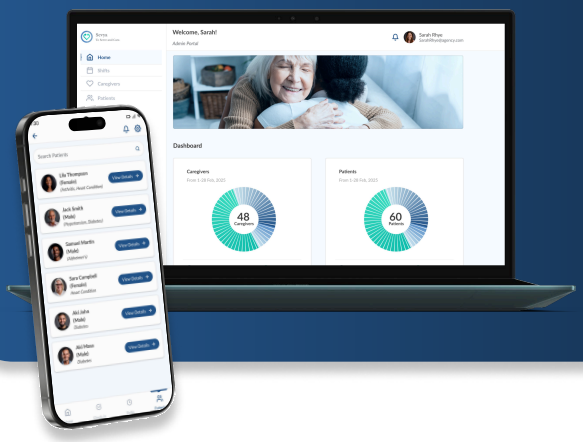
5

Ensure Compliance & Data Security

Maintain compliance with accurate records and secure patient data storage.

Main Features

Features



Patient & Shift Management

Log care details, manage and check patient profiles and notes. Agencies can use dashboard to create and track shifts effortlessly.

Smart Documentation & Multilingual Support

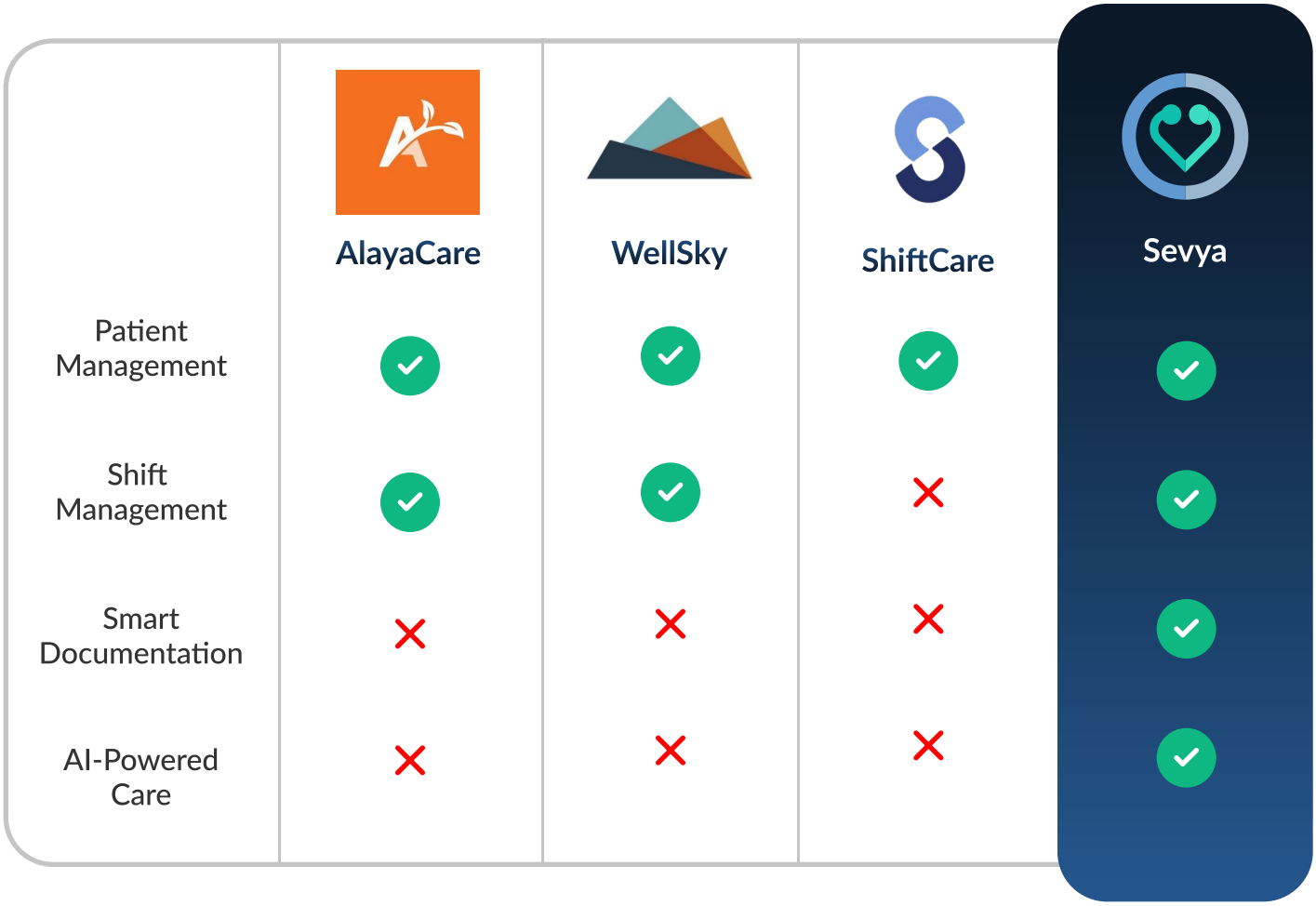
Convert voice notes to text, use camera to register notes and translate it in your preferred language for caregiver updates.

AI-Powered Care

Receive AI-driven personalized care plans with dietary and care recommendations for the patients in your supervision.

Competitors

To better understand how our solution stands out in the market, we analyzed key competitors based on essential features like digital documentation, multilingual support, and patient analytics. Below is a comparison of industry-leading platforms:



This presents a clear gap in the market, where our solution differentiates itself by offering innovative, **AI-driven**, and **multilingual** support features. By addressing these unmet needs, we provide a more efficient, inclusive, and intelligent caregiving experience, positioning our platform as a next-generation leader in the industry.

Competitors URLs

AlayaCare.com

Offers tools for clinical documentation, scheduling, and mobile caregiver management. AlayaCare helps agencies streamline operations and provide better care in the home.

WellSky.com

Provides a comprehensive suite of software solutions aimed at improving care delivery, including home health, hospice, personal care, and long-term care. Its platform integrates data analytics, care coordination, and operational tools to support providers in delivering efficient, patient-centered care.

ShiftCare.com

It is a comprehensive home care management software designed to streamline operations for home health care agencies. The platform offers a suite of features aimed at improving the efficiency and quality of care provided.

Technology Usage

Technology Usage

Project Management Tools

Jira

Task & Project Management

Slack

Team Communication & Collaboration

Jira was used for project management and Slack facilitated team collaboration and communication.

Design Softwares

Figma

Wireframing & Prototyping

Adobe Photoshop

Image Editing & Branding

Adobe Illustrator

Illustrations

Adobe After Effects

Graphics & Animations

Adobe Premiere Pro

Video Editing

In this project we have used Figma for wireframing and prototyping, while Adobe Illustrator and Photoshop were used for creating visual assets and branding. For animation effects and video editing, we used Adobe After Effects and Adobe Premiere.

Technology Usage

Tech Stack

React

Frontend Development

AWS

Cloud Computing & Hosting

Express.js

Backend Development

Firebase

Backend Services & Real-time Database

TypeScript

Typed JavaScript for Scalable Development

GraphQL

API Query Language & Efficient Data Fetching

Node.Js

Backend Development

Gemini AI

AI Powered Assistance & Automation

CSS

Styling & layout Design

Sevya's platform uses React Native (Expo) and React.js for mobile and web, with Tailwind CSS and NativeWind for UI. The backend leverages Node.js (Express.js), Firebase Functions, and AWS EC2, with real-time updates via WebSockets.
Data is stored in Firebase Firestore with HIPAA-compliant encryption. Google Gemini AI drives personalized care plans, and Expo Push Notifications provide real-time alerts. The app integrates Google Translation API for global reach.
ApexCharts powers dynamic data visualization, while CI/CD is automated with GitHub Actions for efficient deployment.

Design Process

User Personas

Emma Roberts

Caregiver

Demographic

Age : 34
Occupation: Home Care Aide
Income: CAD 45,000
Status: Single
Education: Certified Nursing Assistant
Location: Canada

Pain Points

- Struggles with manual paperwork and disorganized records.
- Missed task reminders lead to scheduling issues.
- Difficulty coordinating with family members and agencies.
- Needs a multilingual interface for diverse patients and handoff.

About

Emma is a dedicated home care aide who assists elderly and disabled individuals with daily tasks, medication, and companionship. She juggles multiple patients daily, ensuring they receive proper care. With a busy schedule, she needs an intuitive app that helps her document patient updates, track tasks, and communicate with agencies and families.

Goals

- Easily document patient updates using voice-to-text or notes.
- Access patient history and vitals in one place.
- Get real-time reminders for medications and tasks.
- Improve communication with family members and care agencies.

Needs

✓ A simple, intuitive interface for logging care updates.
✓ AI-generated care plans based on patient history.
✓ Real-time notifications for tasks and medications.
✓ A secure platform to store patient records.

User Personas

Michael Carter

Home Care Agency Manager

Demographic

Age : 40
Occupation: Home Care Agency Manager
Income: CAD 80,000
Status: Married
Education: Bachelor's in Healthcare Admin
Location: Canada

Pain Points

- Difficulty tracking schedules and shift coverage.
- No real-time updates on patient care and emergencies.
- Time-consuming compliance paperwork.
- Need for better communication among stakeholders.

About

Michael oversees a team of caregivers and ensures that patients receive high-quality care. He is responsible for scheduling shifts, tracking caregiver performance, maintaining compliance, and addressing concerns from both caregivers and families. He needs an all-in-one platform that simplifies operations, provides real-time monitoring, and enhances communication between caregivers, agencies, and families.

Goals

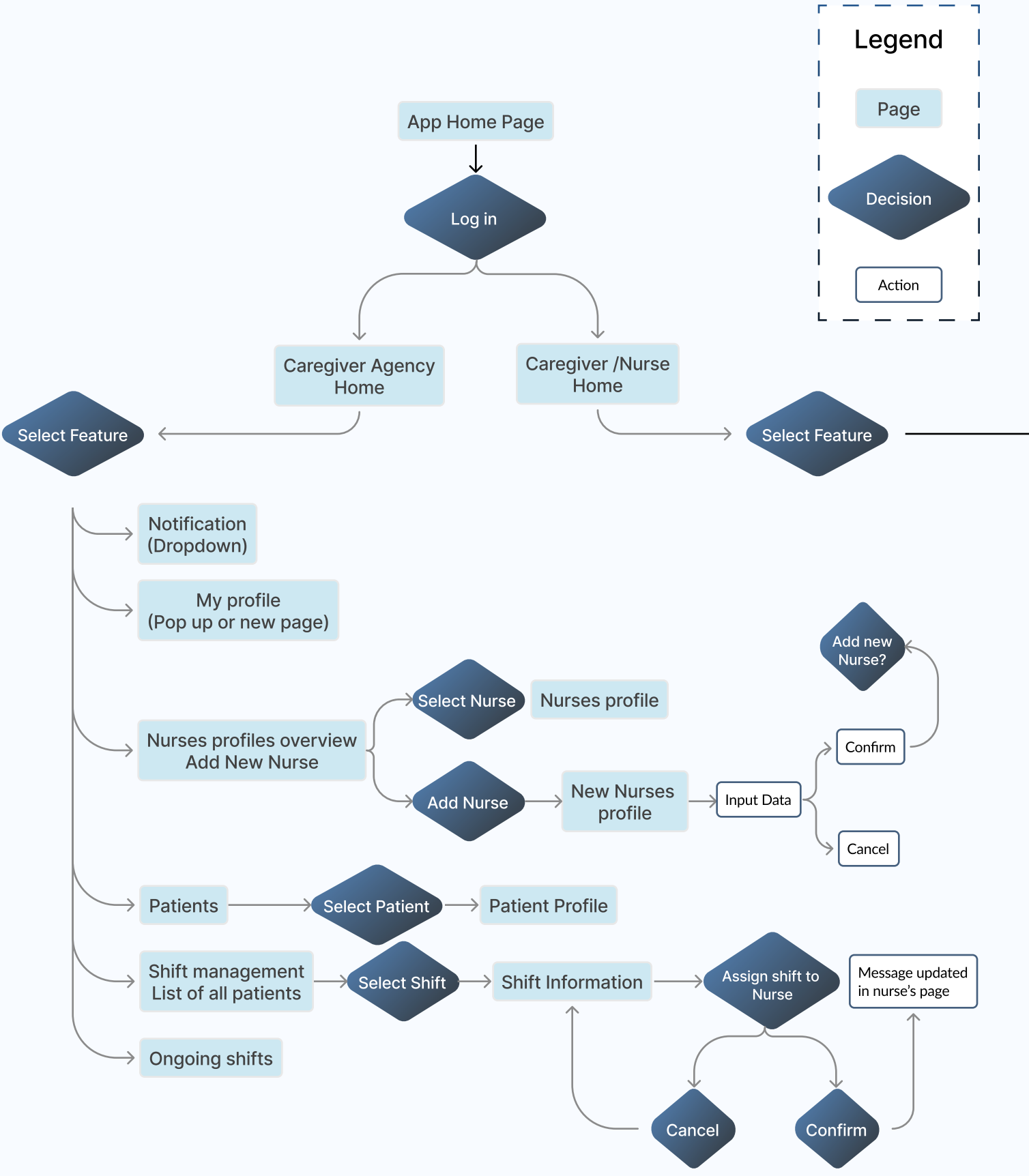
- Track caregiver check-ins and shifts in real time.
- Maintain compliance with accurate records.
- Enhance communication between caregivers, patients, and families.
- Generate reports on patient progress and staff performance.

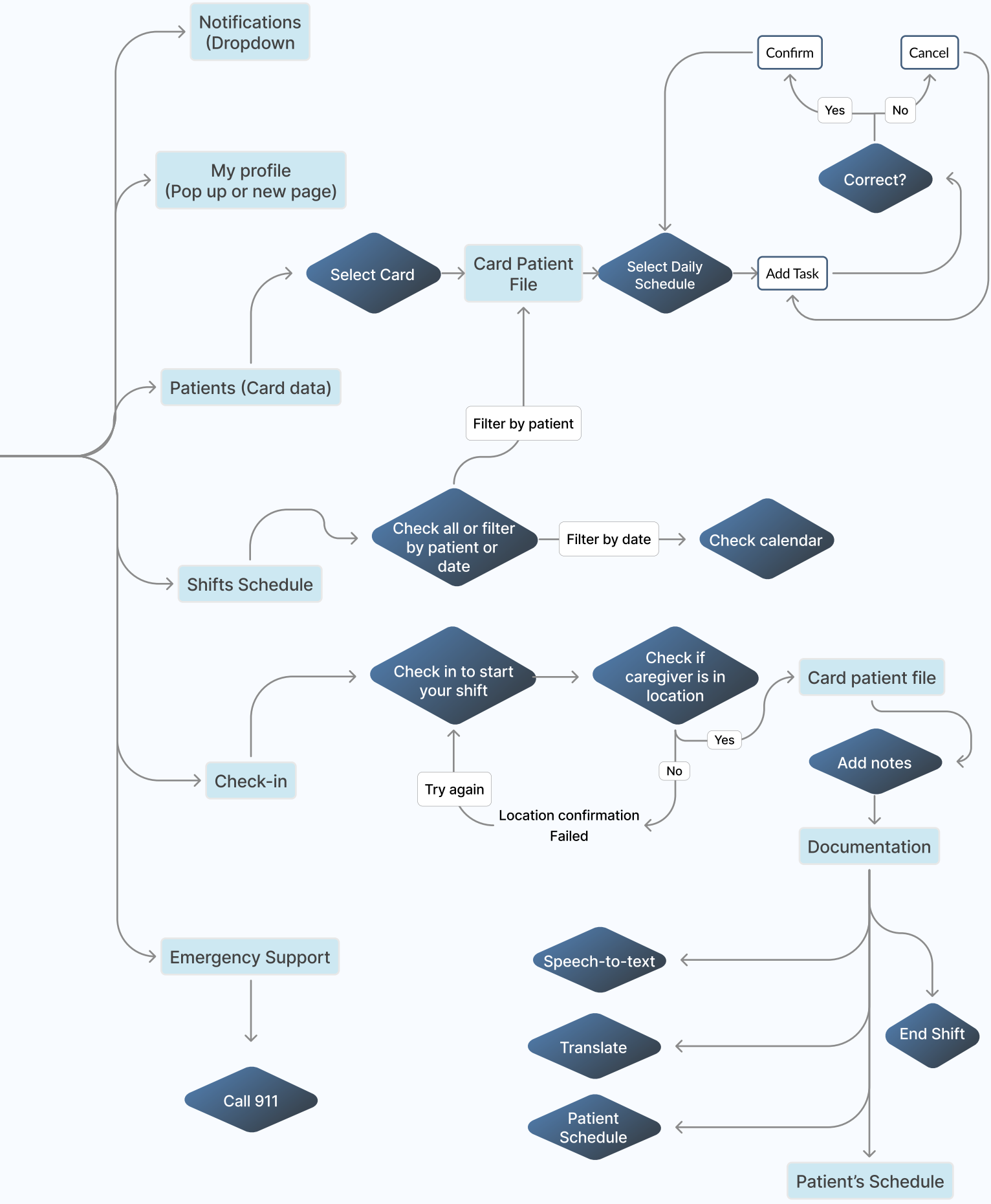
Needs

✓ Dashboard for shifts, check-ins, and patient updates.
✓ Automated reports for compliance and performance.
✓ Secure messaging for caregivers, families, and agencies.
✓ AI-powered shift and care recommendations.

User Flow

User Flow


Legend
Page
Decision
Action
App Home Page
Log in
Caregiver Agency Home
Caregiver /Nurse Home
Select Feature
Select Feature
Notification (Dropdown)
My profile (Pop up or new page)
Nurses profiles overview Add New Nurse
Select Nurse
Nurses profile
Add Nurse
New Nurses profile
Input Data
Add new Nurse?
Confirm
Cancel
Patients
Select Patient
Patient Profile
Shift management List of all patients
Select Shift
Shift Information
Assign shift to Nurse
Message updated in nurse's page
Cancel
Confirm
Ongoing shifts


Notifications (Dropdown
My profile (Pop up or new page)
Patients (Card data)
Shifts Schedule
Check-in
Emergency Support
Call 911
Select Card
Card Patient File
Select Daily Schedule
Add Task
Confirm
Cancel
Yes
No
Correct?
Filter by patient
Check all or filter by patient or date
Filter by date
Check calendar
Check in to start your shift
Check if caregiver is in location
Yes
No
Try again
Location confirmation Failed
Card patient file
Add notes
Documentation
Speech-to-text
Translate
Patient Schedule
End Shift
Patient's Schedule

UI Kit

Logo Concept

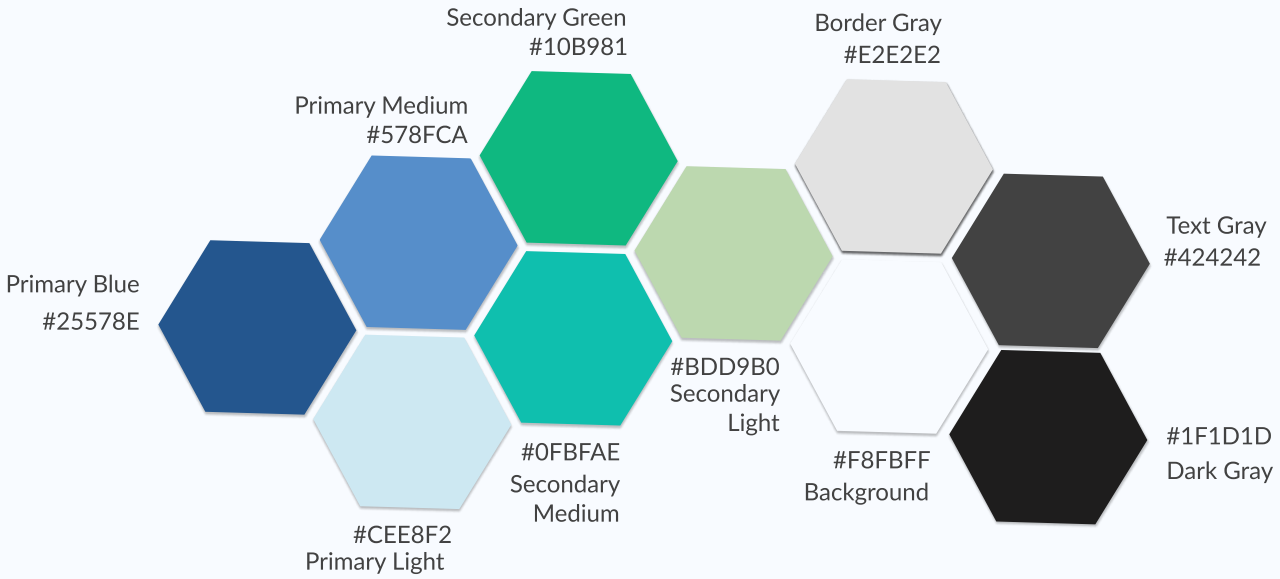
Caring for others is a unique talent that demands a genuine desire to serve. The logo presents the idea of a stethoscope in a heart shape, symbolizing healthcare and attention.

Logo Variants

UI Kit

Color Palette

Neutral clean tones of blue and green to empathize caring and softness.



Typography

Radley and Loto were the choices for typefaces for its design and readability.

A

Radley
Regular & Italic

Decorative
Headings

A

Lato
Regular & Bold

Headings
Body Text

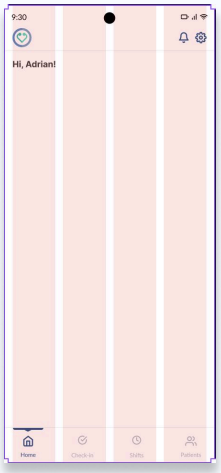
Styles

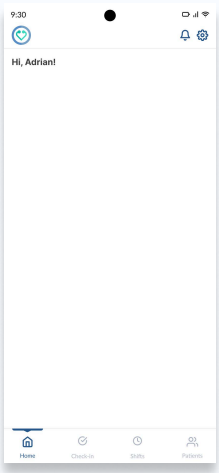
Heading 1	Size 20
Heading 2	Size 18
Heading Bold	Size 16
Body Text	Size 16
Button Text	Size 16
Caption	Size 14
Button Text Small	Size 14

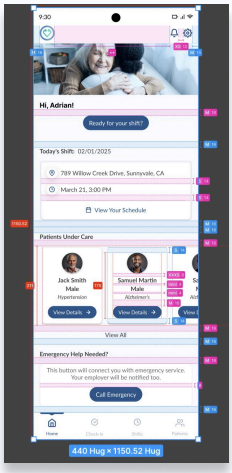
Design Process

Grid System and Design System

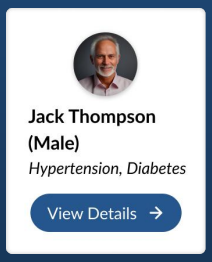
Were used to implement templates and components with autolayout and consistent guide.

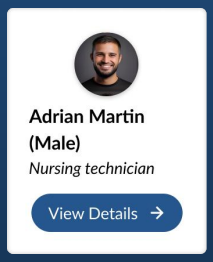


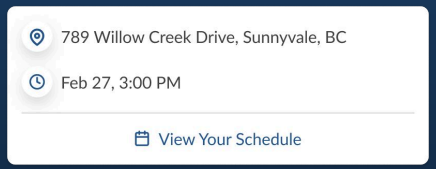


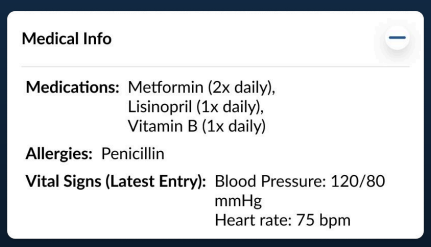


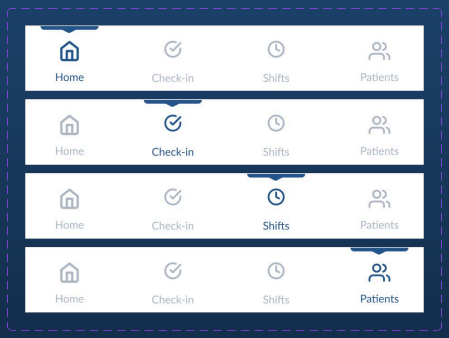
Components

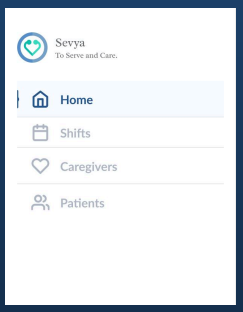




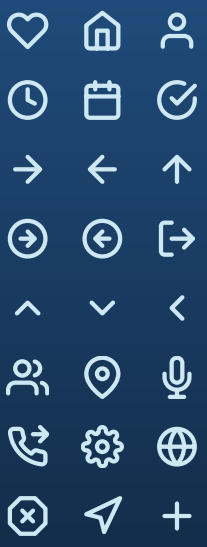








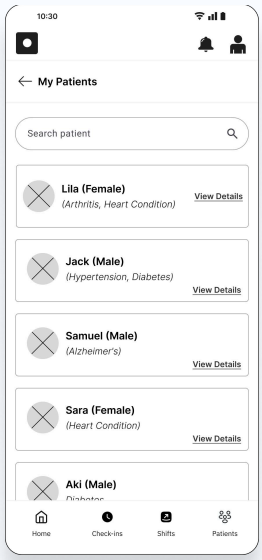
Icons

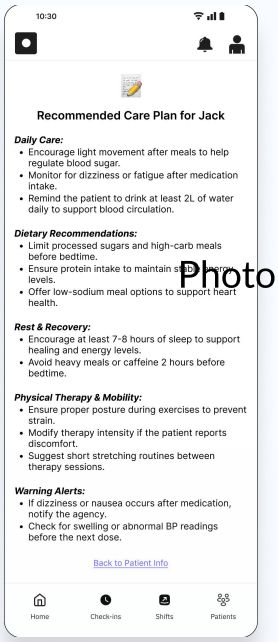


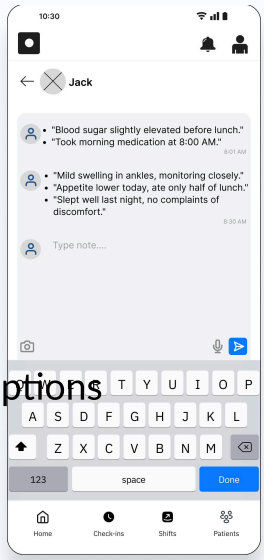
Avatars

Wireframes & Mockups

Wireframes







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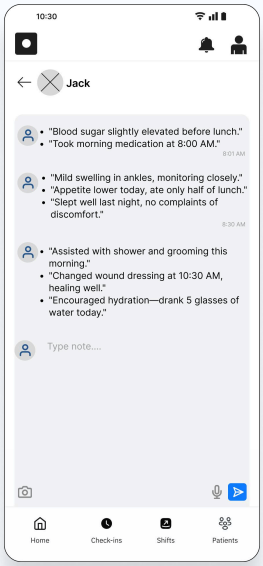
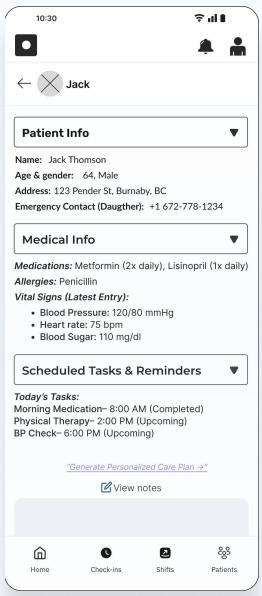
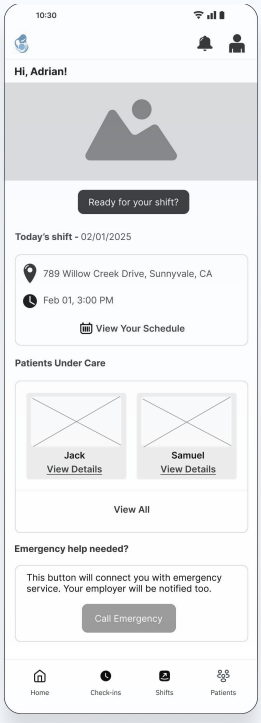
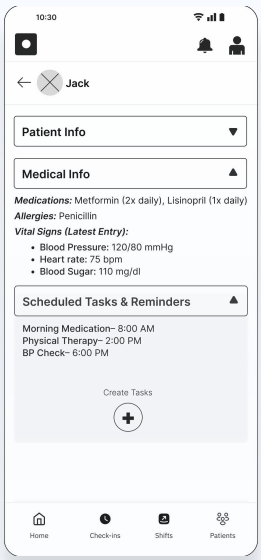
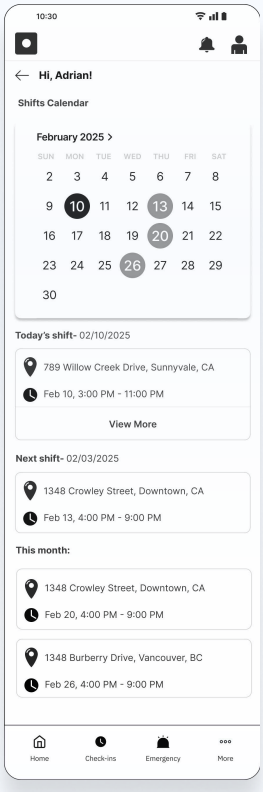
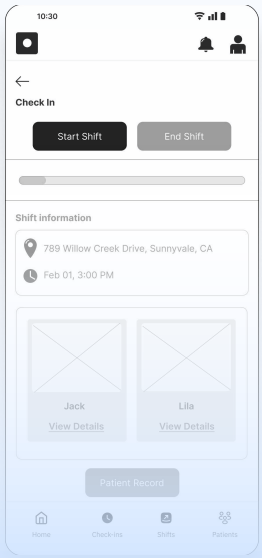


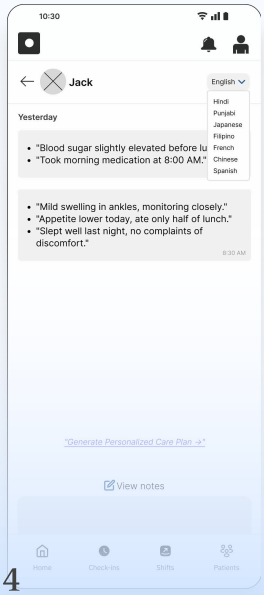




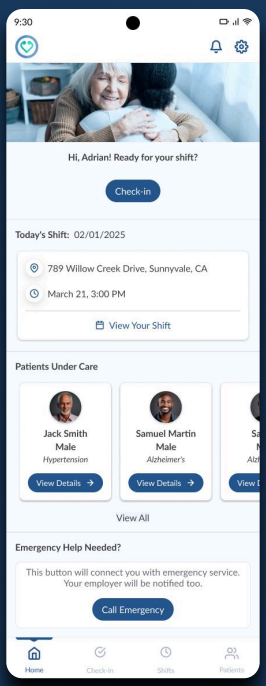


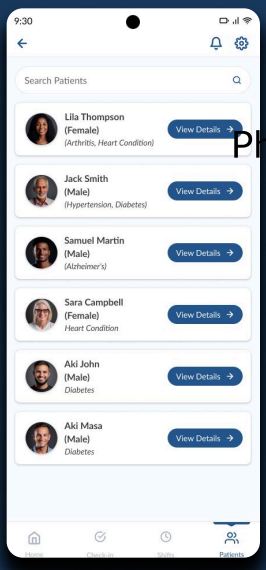






Mockups





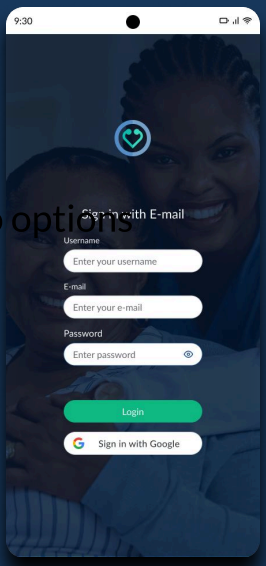
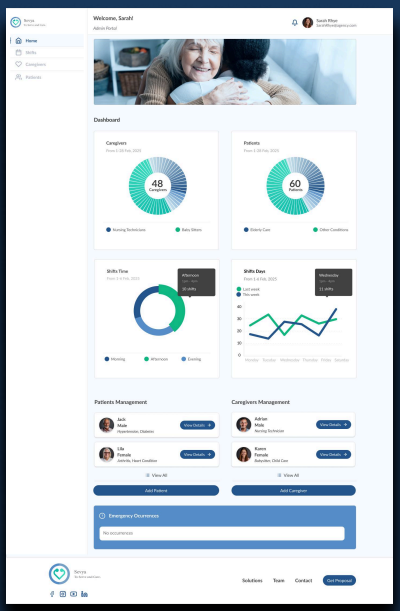
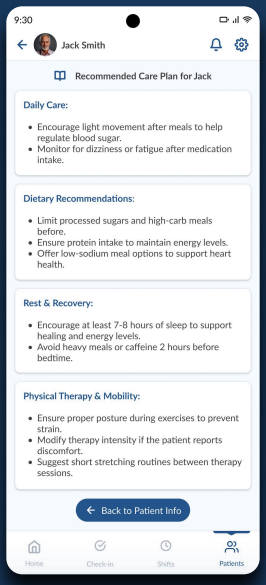
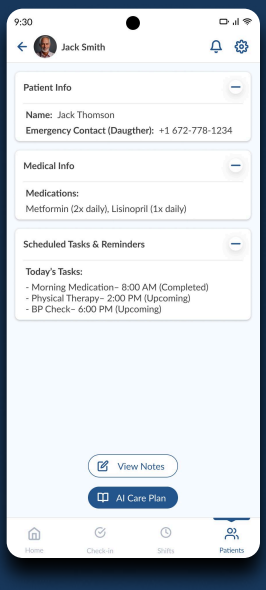
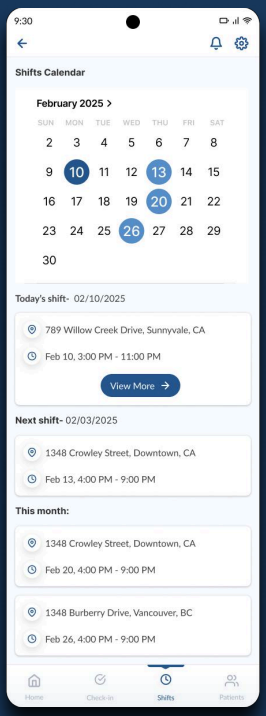


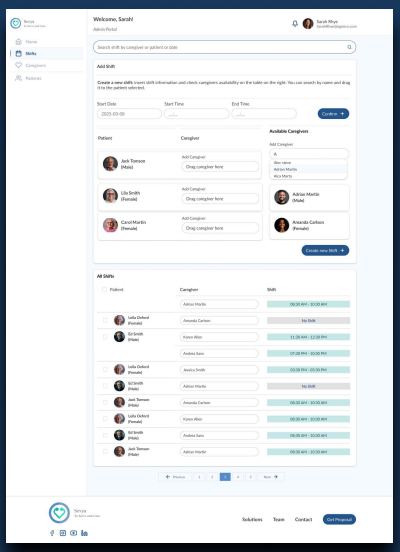
Photo options

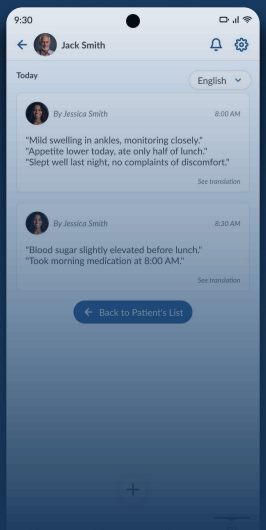


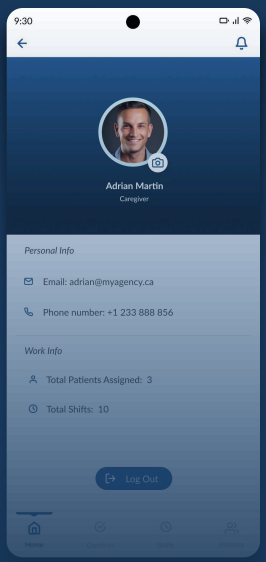


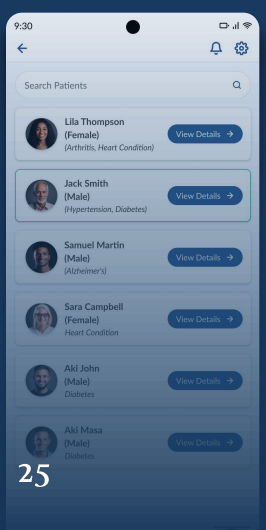


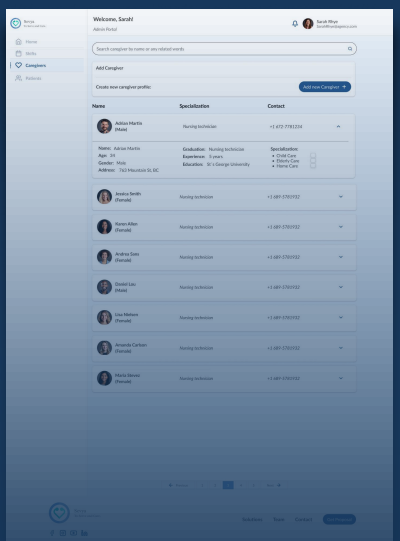






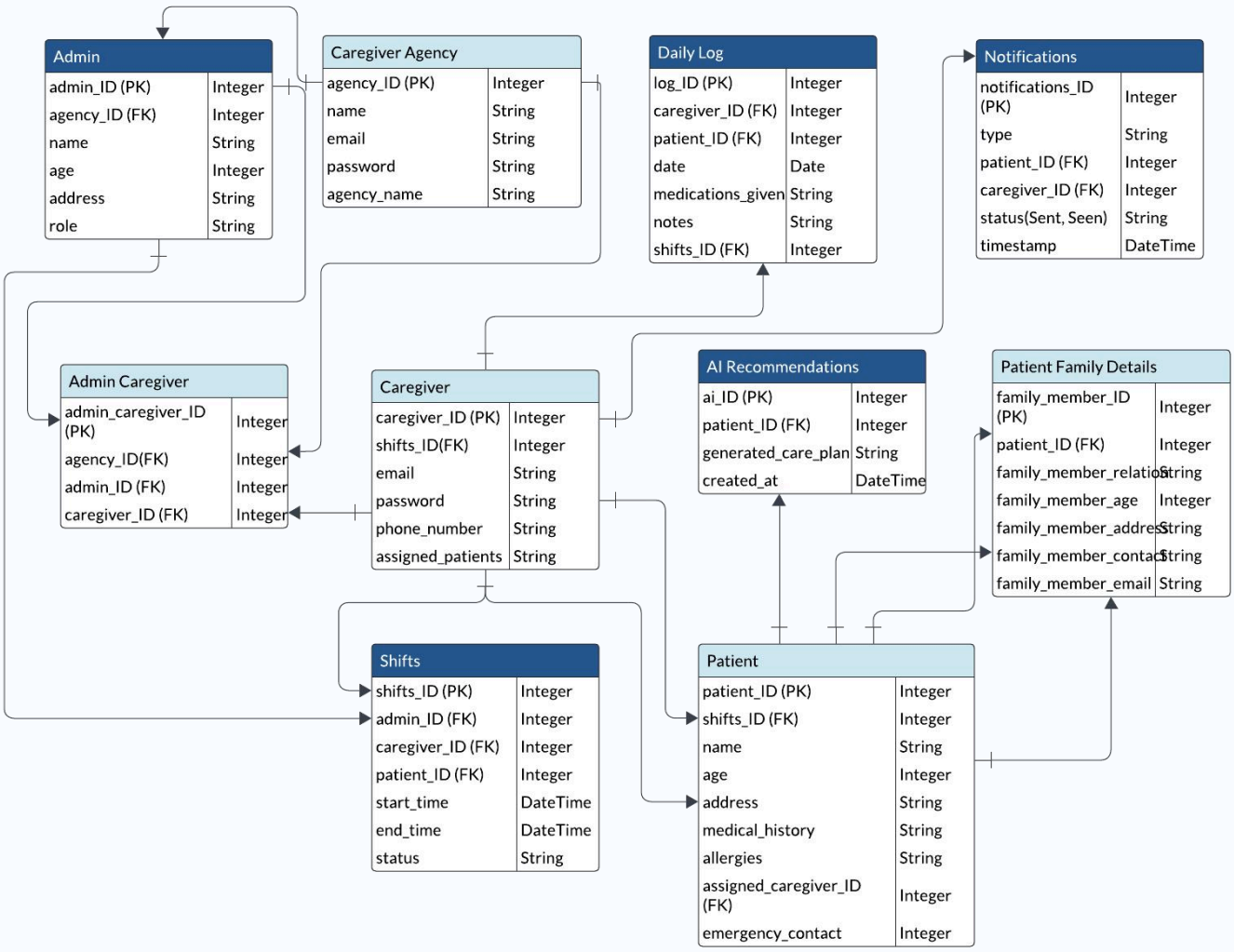




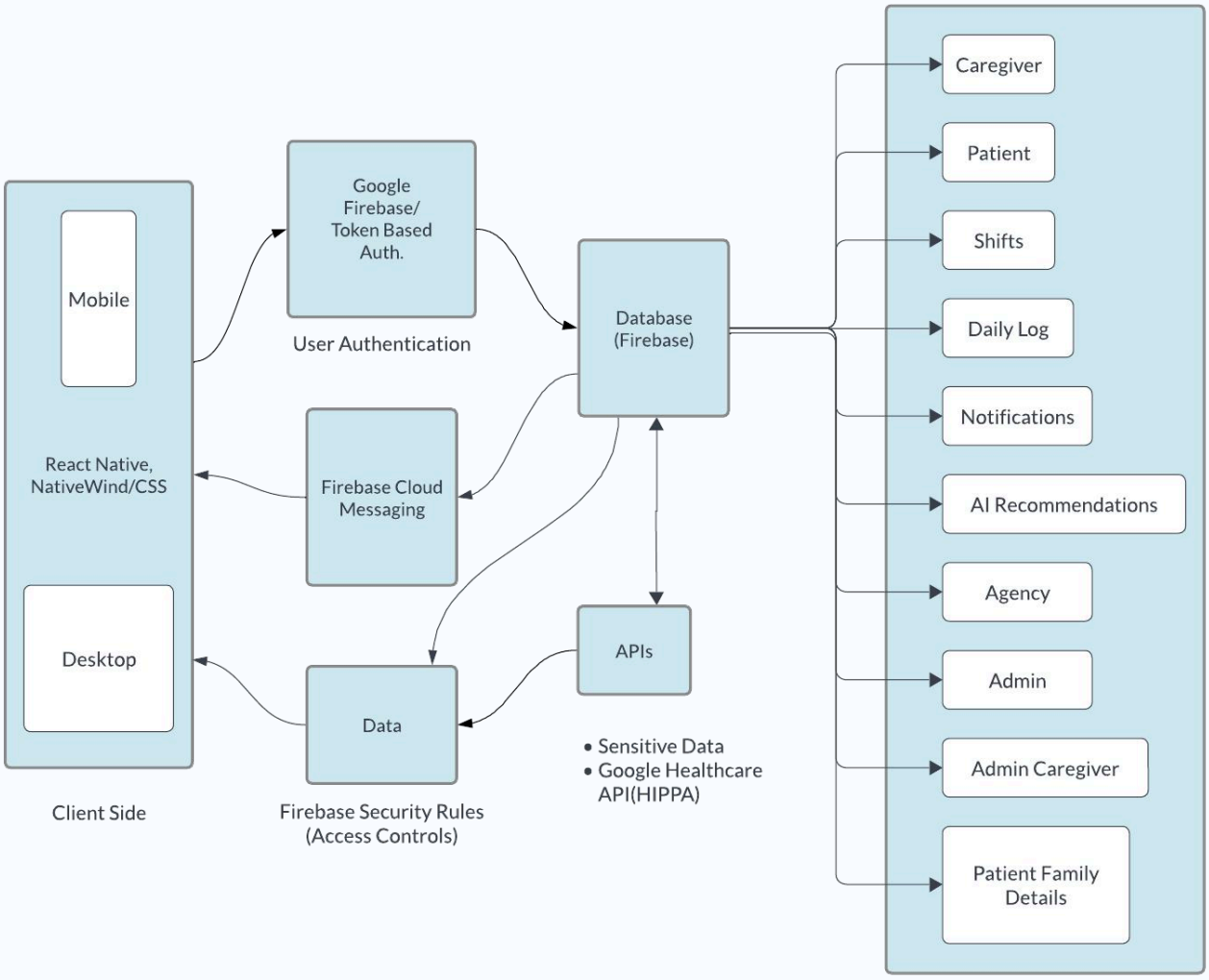


Development Process

Data Model


Admin
admin_ID (PK) Integer
agency_ID (FK) Integer
name String
age Integer
address String
role String
Caregiver Agency
agency_ID (PK) Integer
name String
email String
password String
agency_name String
Daily Log
log_ID (PK) Integer
caregiver_ID (FK) Integer
patient_ID (FK) Integer
date Date
medications_given String
notes String
shifts_ID (FK) Integer
Notifications
notifications_ID (PK) Integer
type String
patient_ID (FK) Integer
caregiver_ID (FK) Integer
status(Sent, Seen) String
timestamp DateTime
Admin Caregiver
admin_caregiver_ID (PK) Integer
agency_ID(FK) Integer
admin_ID (FK) Integer
caregiver_ID (FK) Integer
Caregiver
caregiver_ID (PK) Integer
shifts_ID(FK) Integer
email String
password String
phone_number String
assigned_patients String
AI Recommendations
ai_ID (PK) Integer
patient_ID (FK) Integer
generated_care_plan String
created_at DateTime
Patient Family Details
family_member_ID (PK) Integer
patient_ID (FK) Integer
family_member_relation String
family_member_age Integer
family_member_address String
family_member_contact String
family_member_email String
Shifts
shifts_ID (PK) Integer
admin_ID (FK) Integer
caregiver_ID (FK) Integer
patient_ID (FK) Integer
start_time DateTime
end_time DateTime
status String
Patient
patient_ID (PK) Integer
shifts_ID (FK) Integer
name String
age Integer
address String
medical_history String
allergies String
assigned_caregiver_ID (FK) Integer
emergency_contact Integer

System Architecture



Design & Development Timeline

Design Timeline

Week	
01	Idea Proposal, Interview Logs, Team formation, Project election
02	User Stories, User Flow, Personas, Tagline, Color Palette, Typography
03	Refining User flow, Competitive Analysis, Wireframes
04	Usability Test and UX Review
05	Branding, UI kit and Logo
06	Mockups, User Test, Prototype testing, Landing page schedule
07	Landing Page Schedule and Mockups Reviewed, Project Proposal draft
08	Project proposal Styling & Marketing Materials
09	Project Proposal finalized, Bug bash, Slide deck started, landing page finalised
10	Finalized Presentation, Script sample
11	Final presentation
12	Final design files

Development Timeline

Week

01	Set up project, define tech stack, initialize Expo, and configure Firebase.
02	Implement authentication, user roles, and profile setup.
03	Secure data storage, define API schema with GraphQL, and develop backend logic.
04	Build patient database and implement caregiver shift scheduling.
05	Develop shift assignment, caregiver check-in/out, and progress tracking.
06	Integrate Gemini AI for healthcare plans and enable multilingual support.
07	Implement real-time communication, text-to-speech, and emergency alerts.
08	Develop caregiver notes, voice/image sharing, and push notifications.
09	Build the admin dashboard for managing caregivers, patients, and schedules.
10	Implement shift approval, payroll tracking, and caregiver performance reports.
11	Conduct unit and integration testing, optimize security, and improve performance.
12	Deploy the platform, collect user feedback, and iterate on improvements.

Meet the Team

Design Team

Parul

/in/parul05

Project Manager & UI/UX Designer

“Since my WMDD journey started, I have built a larger experience on Figma, focusing on wireframes, prototypes, and front-end work, supporting Design and Development teams. This time, I worked on the UX/UI design and led the group to achieve efficient results as Project Leader.”

Monica Mesquita

/in/monica-mesquita1

Design Lead & UI/UX Designer

“I have a background in corporate communication, but was always passionate about design. In this project, I used my current knowledge in tools like Figma to guide and help my colleagues, while also learning and collaborating to achieve the best results.”

Carla dos Santos

/in/carlabeatrizd

UX Research & UI/UX Designer

“My business background has sharpened my eye for detail and problem solving skills. In this project, I gained hands-on experience in UX research, ensuring that design decisions matched user needs and helped achieve the platform’s core goals. I also helped and supported my colleagues while learning and working together to achieve the best results.”

Mehul Sharma

/in/mehul-n-sharma

Graphic & UI/UX Designer

“Throughout my journey, I’ve developed a versatile skill set with a foundation in development and an expanding interest in design. Driven by a passion for creativity, I’ve always aimed to blend technical knowledge with artistic innovation.”

Development Team

Amneesh Pal Singh

/in/amneesh-pal-singh/

Lead Developer & Full-Stack Developer

Experienced Full-Stack Software Developer with expertise in web and mobile applications, AI integrations, and leadership in project management.

Soud Haroon

/in/soudharoon

Mobile App Developer & Full Stack Developer

“I have a background in Mobile Application development, specifically using Flutter framework. For this project, I worked as a back-end developer and Development Leader, using Node.js for logic operations and MongoDB for user data management.”

Namrata Kanda

/in/namrata-kanda/

Full-Stack Developer

I am a dynamic tech enthusiast with experience in front-end development, complemented by a solid grasp of back-end technologies. Proficient in JavaScript, Angular, and React, she has also broadened her expertise to include Node.js, Java, and MongoDB. Her diverse skill set enables her to create solutions that are both user-friendly and technically robust.

Carlos Borsato

/in/carloshenriqueborsato/

Front-end Developer

“I am a Mechanical Engineer passionate about creating user-friendly interfaces. Early in my web development career, I focused on the front end in this project, emphasizing design and functionality while integrating our API."

Sevya

To serve and care.