# Labour Care App

# Overview

# The Labour Care App is a modern, web-based solution designed to support midwives and clinicians in managing labour and delivery care. It streamlines patient record-keeping, provides real-time clinical decision support, and enhances team communication, all in alignment with LCG.

# Key Features

# 1. Patient Management

# a) Create New Patient Records: Capture essential patient details (name, age, parity, risk factors, labour onset, diagnosis, etc.).

# b) Patient List & Search: View, filter, delete and search all patients created by the logged-in user (midwife) or all patients (admin & super admin).

# c)Load Patient by ID: Quickly access any patient record using a unique Patient ID.

# 2. Labour Summary & Monitoring

# a) Dynamic Labour Summary Table: Track patient progress across multiple time frames (e.g., every 30 minutes or 1 hour).

# b) Real-Time Data Entry: Update supportive care, baby status, maternal vitals, labour progress, medication, and shared decision-making.

# c) Cell Highlighting: Automatic alerts for abnormal values (e.g., FHR, BP, companion presence) and visual trends for labour progress.

# 3. Clinical Decision Support

# a) Automated Recommendations: Contextual recommendations and alerts based on the latest patient data and WHO guidelines.

# b) Print or Export as PDF: Concise, readable patient information and data for handover and reporting.

# 4. User Authentication & Roles

# a) Secure Login: Google’s Firebase authentication for user management and Email verification.

# b) Role-Based Access: Admins can view all patients in a designated area; midwives can see and update only their own records. Super Admins see, edit, delete and register new admins or midwives.

# 5. Modern UI & UX

# a) Responsive Design: Works seamlessly on desktop, tablet, and mobile.

# b) User friendly Look: Clean, intuitive interface with sticky navigation, color-coded alerts, and easy-to-use controls.

# 6. Data Security & Privacy

# a) Firestore Rules: Patient data is protected by Google’s Firestore and only accessible by authorized users.

# b) Audit Trail: All changes are timestamped and attributed to the user.

# Technical Stack

# Frontend: HTML5, CSS3, JavaScript, Bootstrap 5

# Backend: Firebase Firestore (NoSQL database), Firebase Authentication

# Deliverables

# Source Codes (All HTML, CSS, JS files for the app)

# Firebase server configuration and rules

# Documentation for deployment and maintenance

# Deployment of live web app hosted on Firebase or client’s preferred platform

# Setup instructions for account creations & User manual

# Mobile App Packaging (PWA or native)

# Custom Analytics Dashboard

# Localization/Multilingual Support