



BABY CARE LINK

PROJECT PROPOSAL

Presented by,
Team Elevation

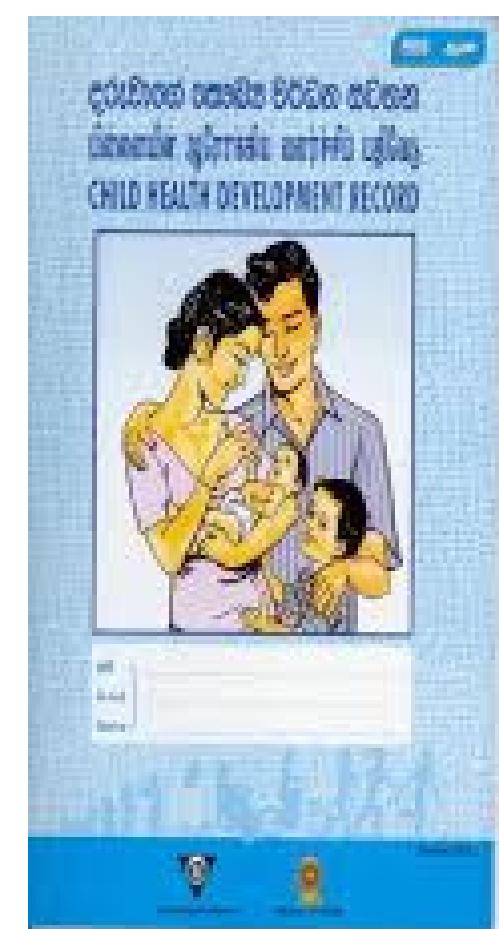
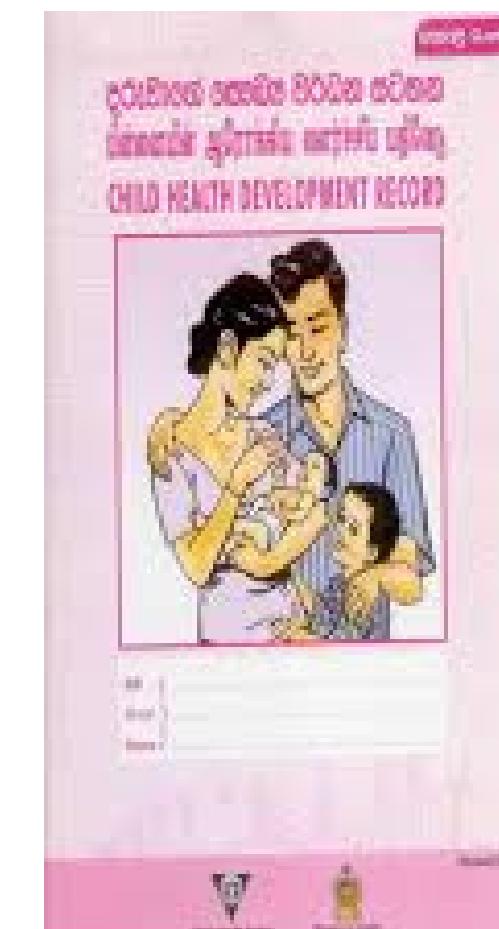


THE BABY CARD AND THE PROBLEM

Baby Card Mainly Contains:

- Vaccinations,
 - Growth,
 - Medical History
- of a child from birth.

Currently
Being
Maintained
Manually



PROBLEMS FOR THE USERS



Health Care Officers

- **Redundant** and Manual recording of data
- **Manual Analysis** through paperwork
- **Timely Routines** for visits and clinics

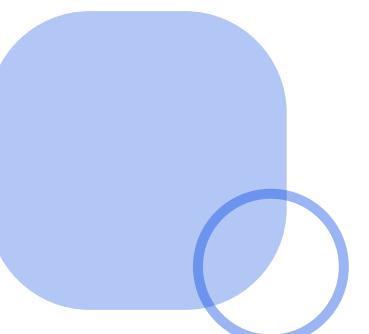


PROBLEMS FOR THE USERS



Caregivers

- **Timely Routines**
for vaccinations
and clinics
- Prone to
Misplacement
- Forgetting to
record



PROBLEMS FOR THE USERS



Government Institutes

- Have to **enter** to the **database** **manually** from scratch
- **Manual paperwork**



Ministry of Health



Non-communicable
Diseases Bureau
Sri Lanka



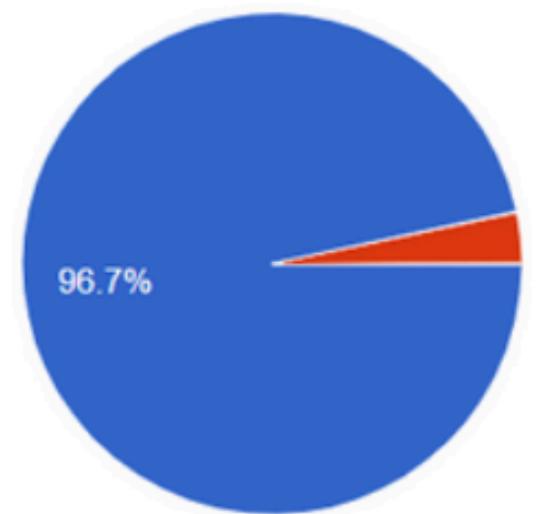
Towards a Healthy Lifestyle
Non Communicable Disease Unit
Ministry of Health



PROBLEMS FOR THE USERS

ඔබේ දුරුවාට නිවසේ ලදරු කාඩ්පතක් තිබේද?

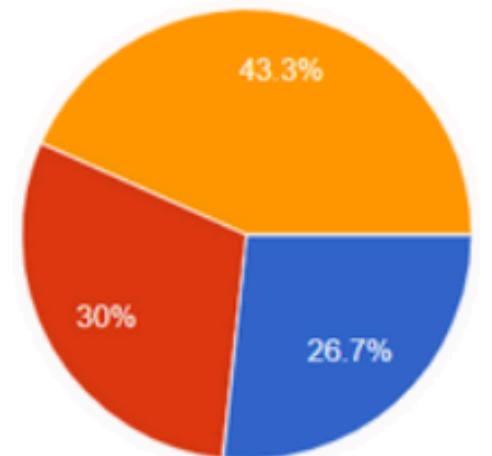
Does your child have a baby card?



● මෙ
● නැත
Yes
No

එය සම්පූර්ණයෙන් පිරි තිබේද?

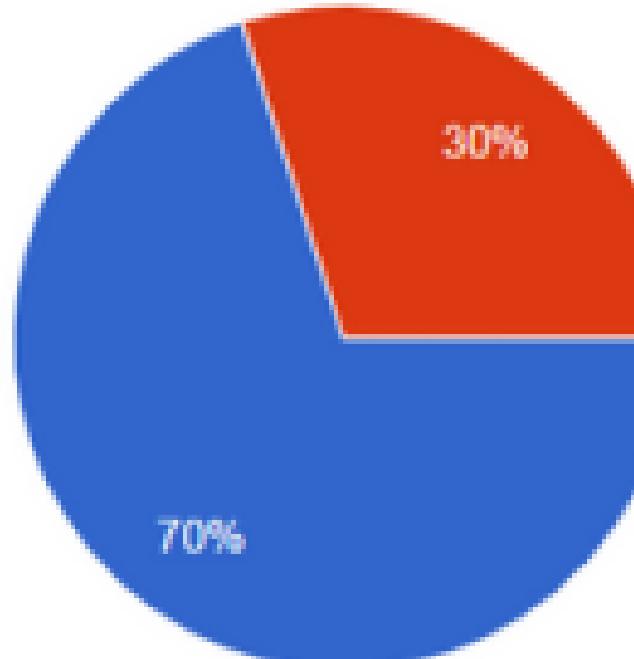
Is it fully filled?



Yes ● මෙ
No ● නැත
Some parts ● සමහර ලකාවස් පමණි

ඔබේ දුරුවා ප්‍රාර්ථන එක්තත්කරණයට ලක්වී තිබේද?

Is your child fully vaccinated?



Yes ● මෙ
No ● නැත

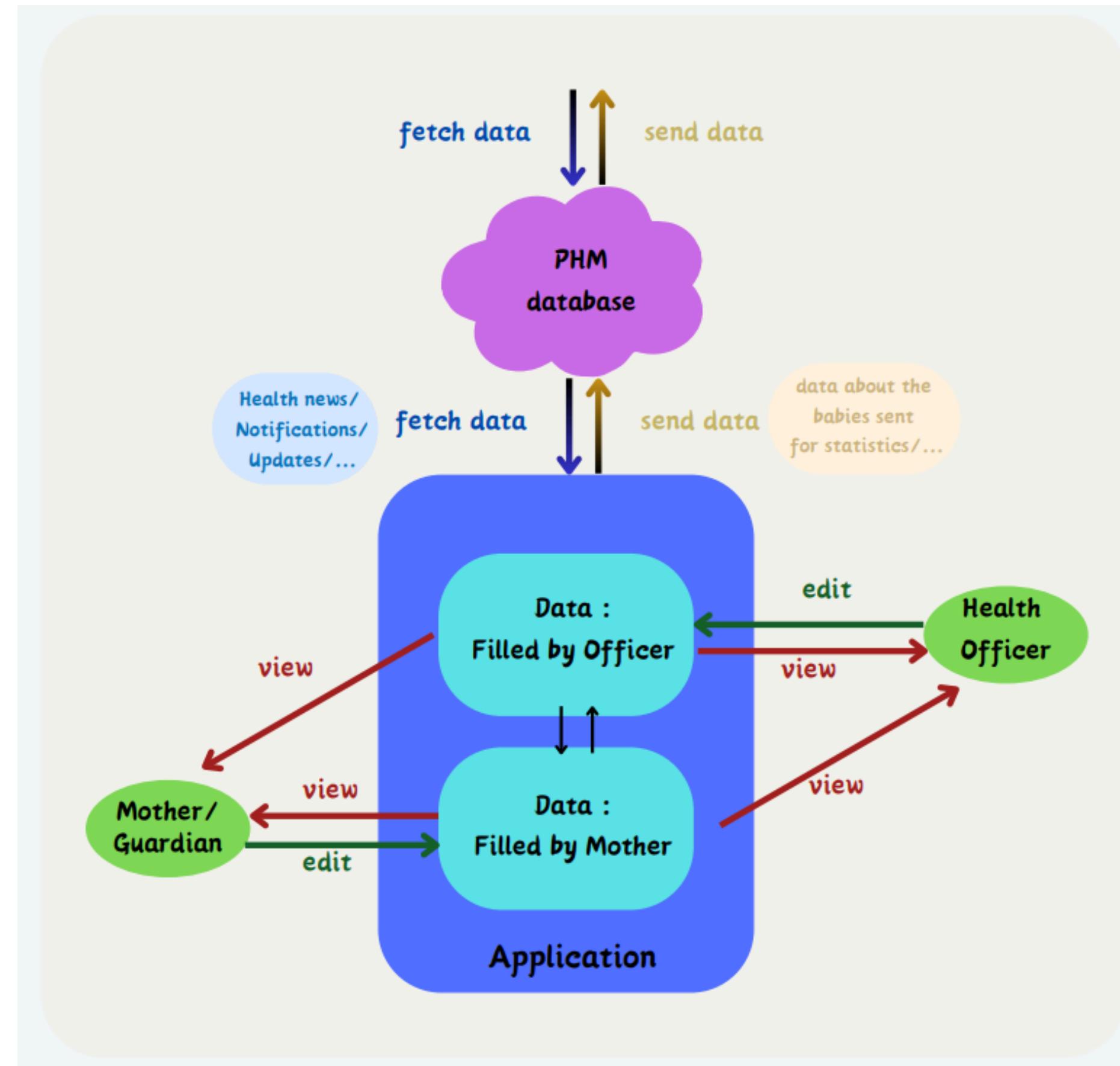
OUR SOLUTION TO THE PROBLEM



Digitalizing the baby card,
as a user friendly scalable application/software



ABSTRACT VIEW OF THE SOLUTION



CONCEPTS AND INNOVATION

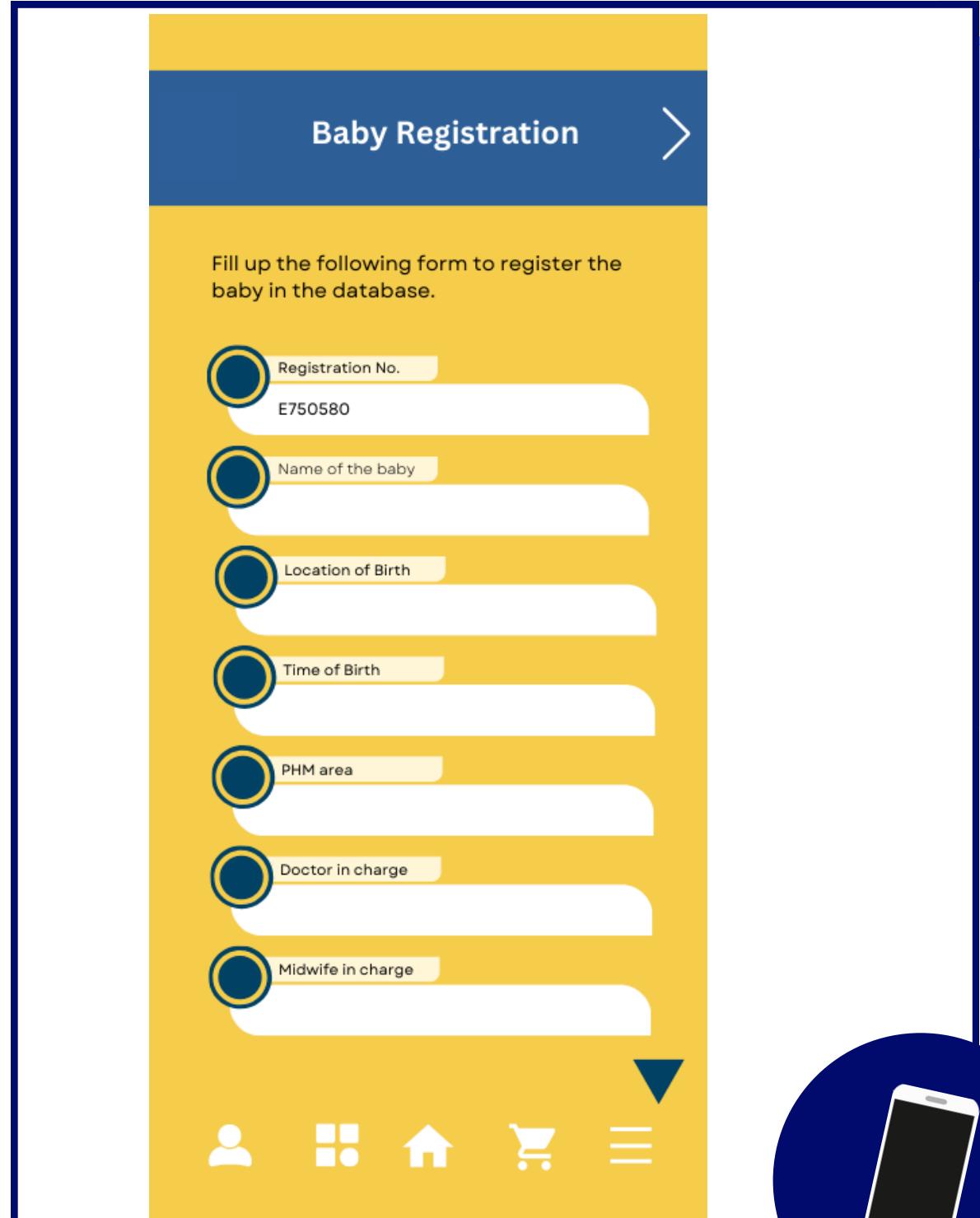


Baby Registration

Birth details are entered into the database by the mother or officer, with the system generating a registration number.



Manual Baby Card



Digitalized Version

CONCEPTS AND INNOVATION



Birth Related Data and Special Care

This is completed by medical staff.

It includes **birth complications, growth, environment, and special care needs.**



Manual Baby Card



Digitalized Version

CONCEPTS AND INNOVATION

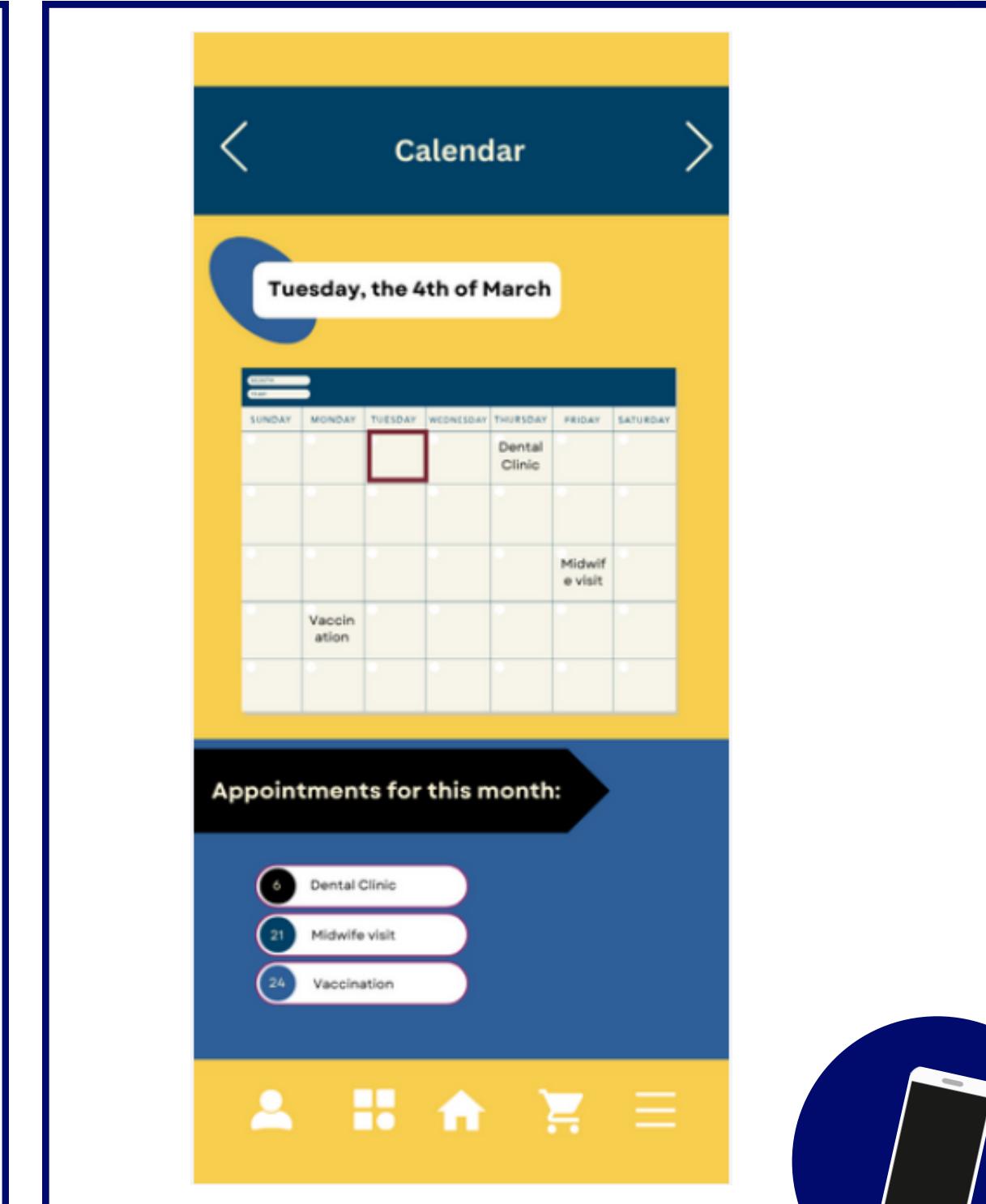
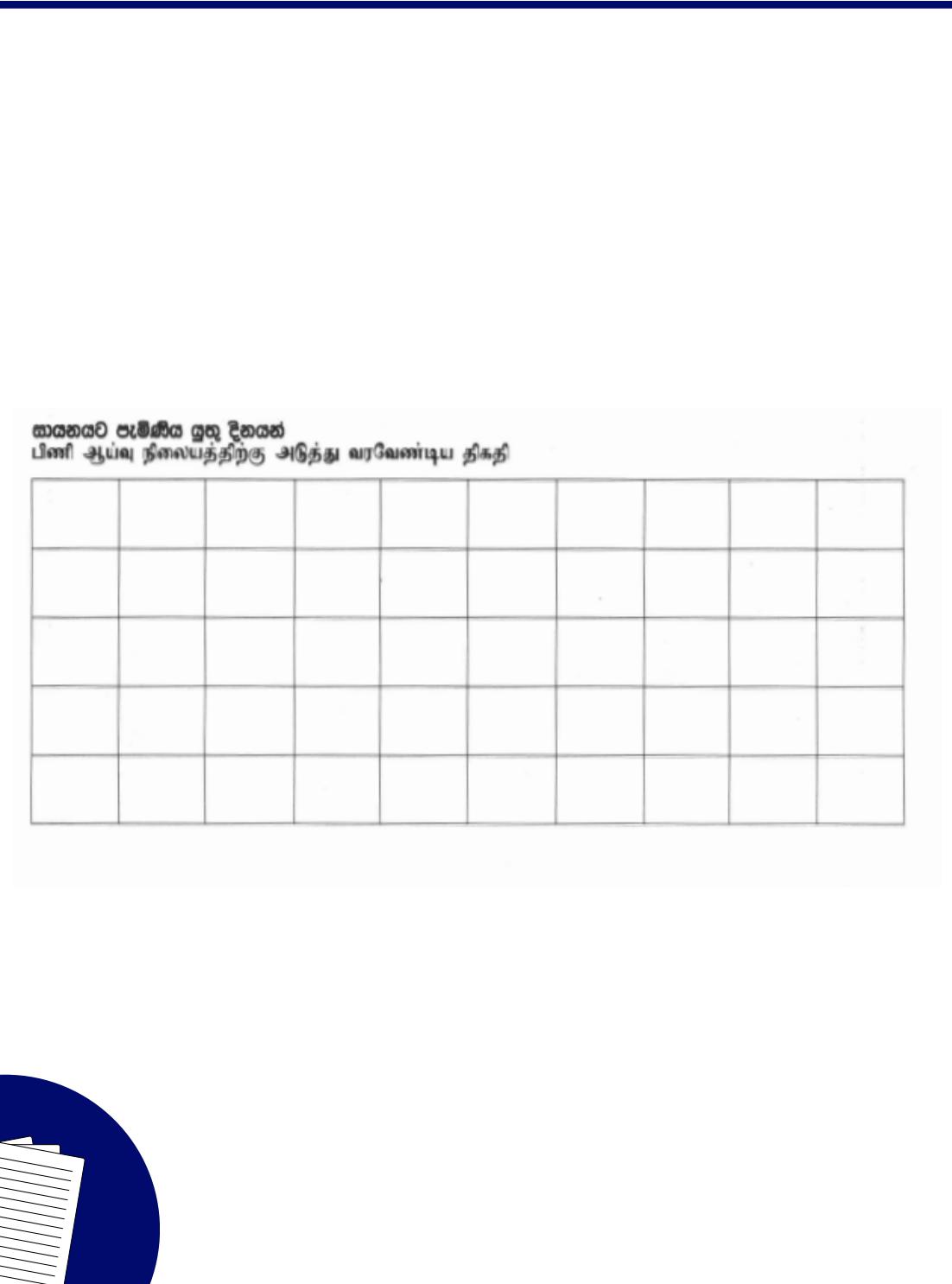


Calendar and Notification

Our app will **remind** users of upcoming **appointments**, including **vaccinations**, **clinical visits**, and **field officer visits**, all scheduled by medical offices.



Manual Baby Card



Digitalized Version

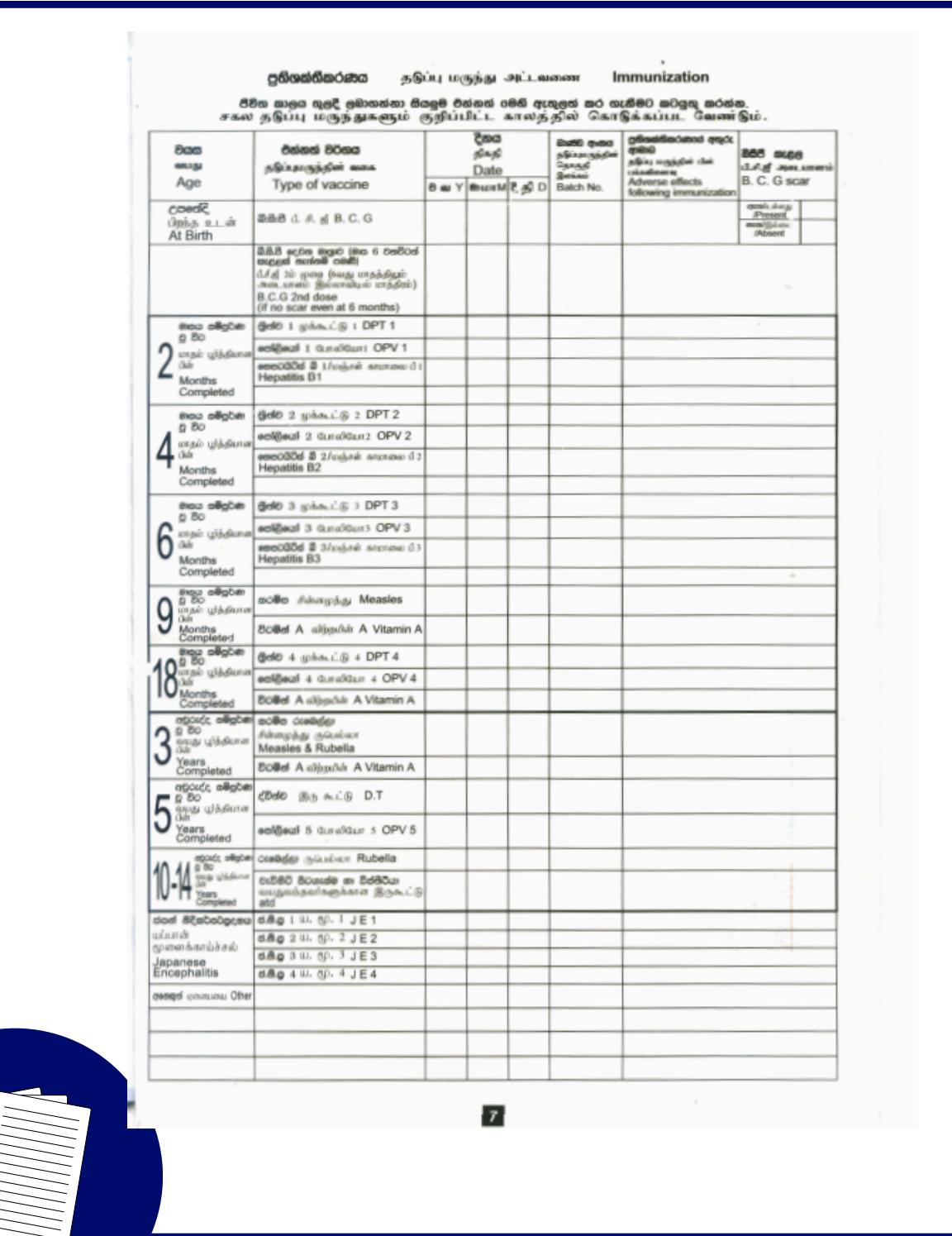


CONCEPTS AND INNOVATION

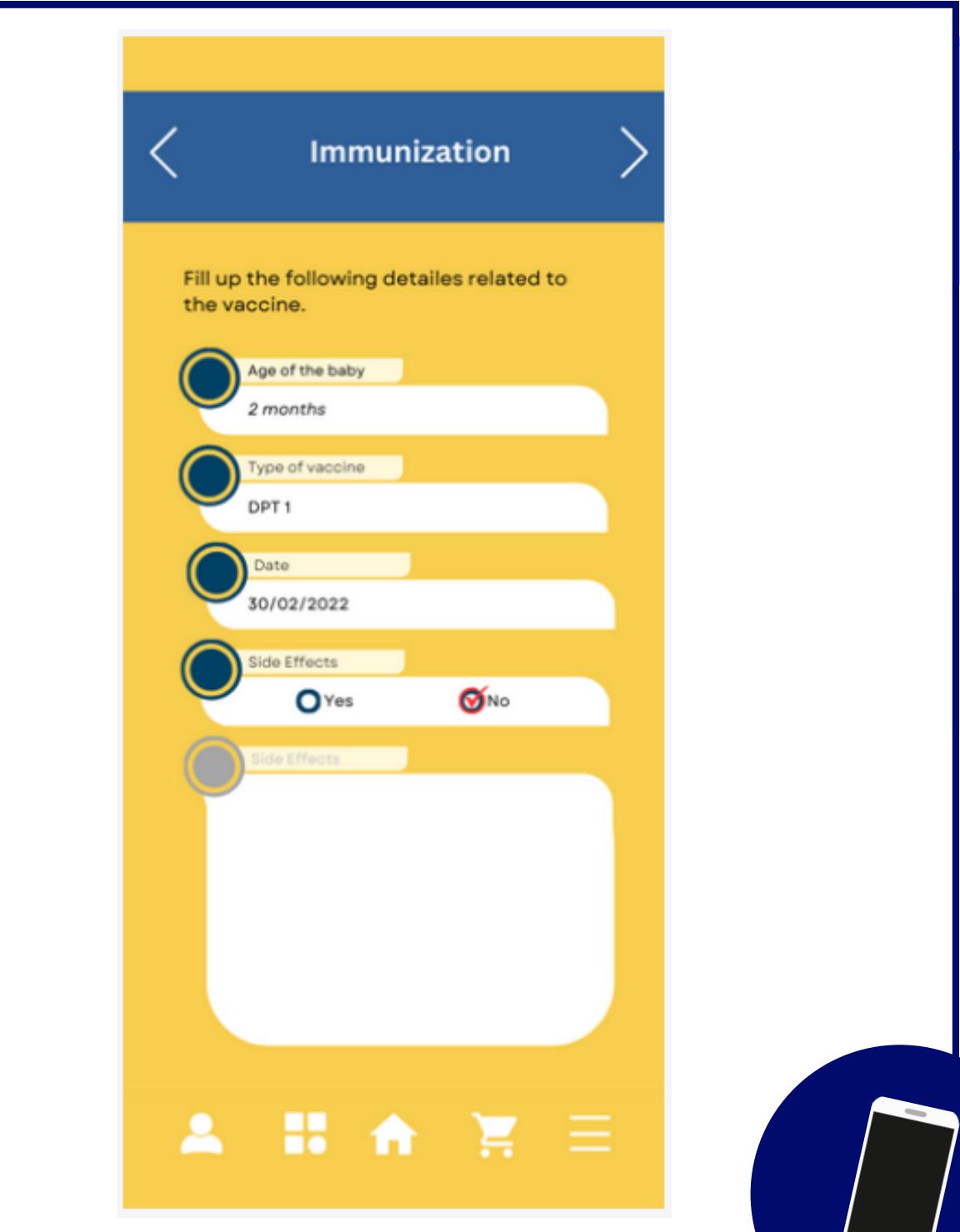


Immunization Report and Data

Users input **vaccine data via a form**, making it easy to view and analyze according to their needs.



Manual Baby Card



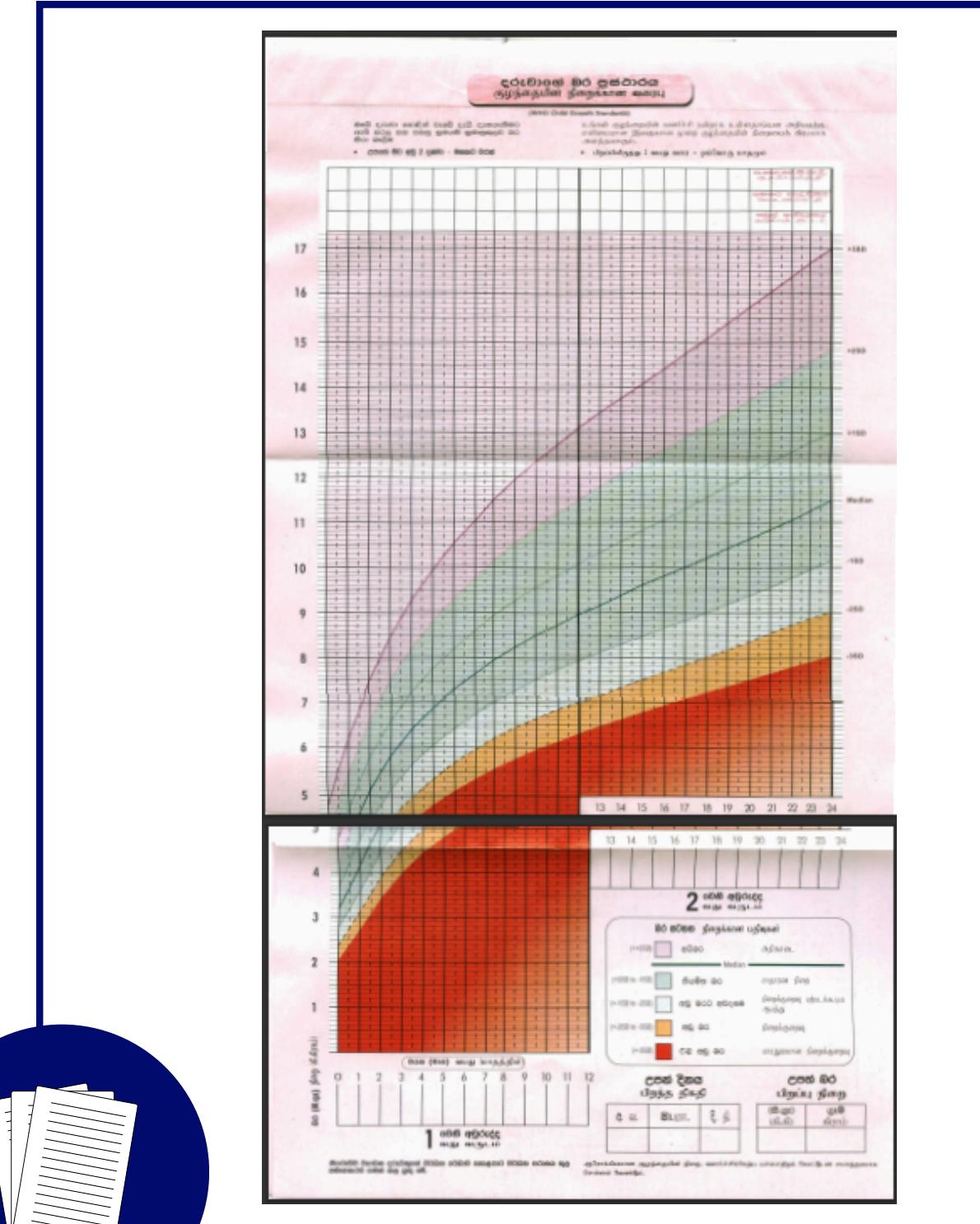
Digitalized Version

CONCEPTS AND INNOVATION

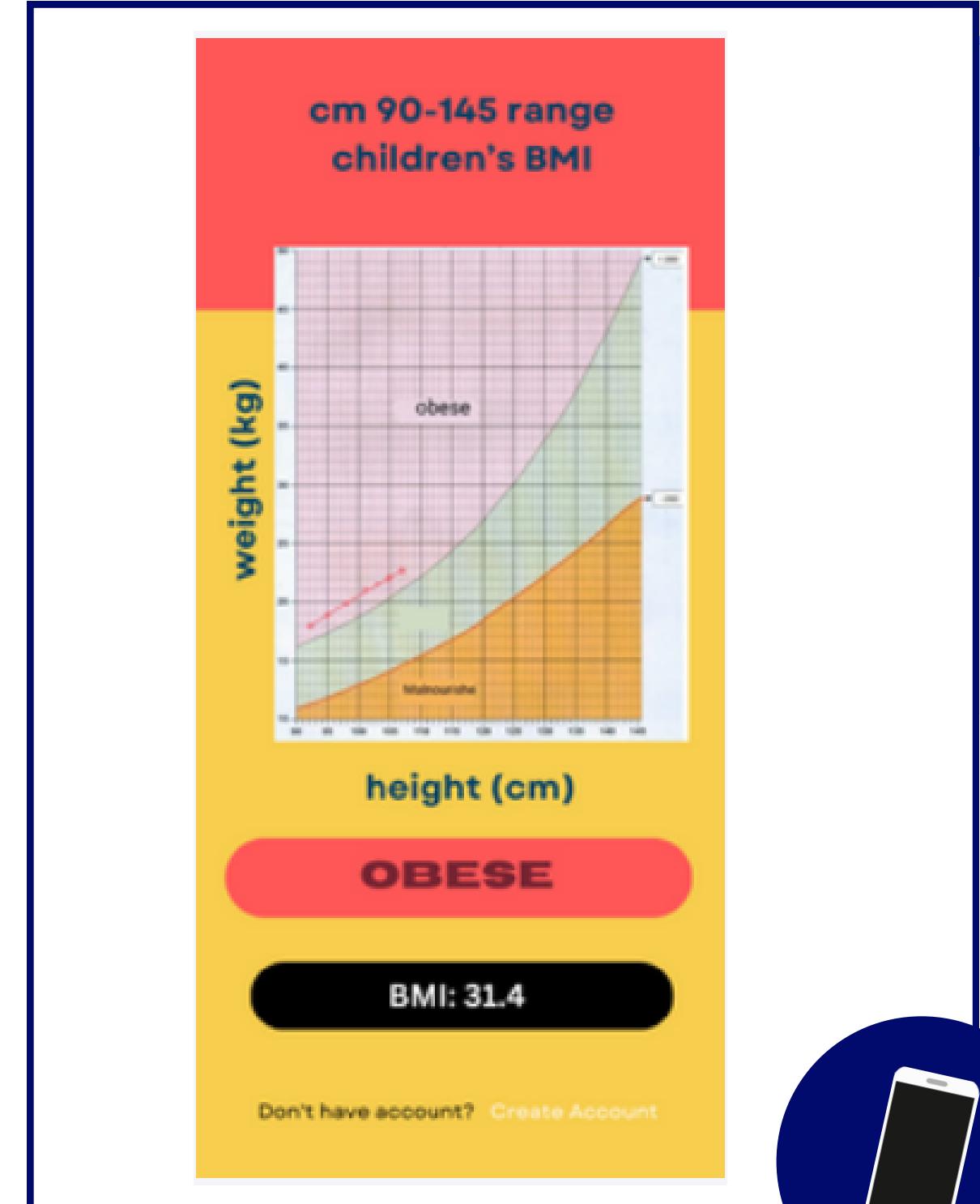


Automatic graph generation

Our app **displays custom graphs** for each child's age group, illustrating weight, **BMI**, and height, tailored to their specific birth **details** for accuracy and relevance.



Manual Baby Card



Digitalized Version



CONCEPTS AND INNOVATION



Maintaining the child's health history records

Enables **viewing of the child's complete health history**, updated at each appointment and treatment.
Only the health officer has editing privileges for the data.



Manual Baby Card

උපත සිට අවුරුදු 5 දක්වා වයෝ/කාවර්ධනය පිළිබඳ පිටවර (අපෙක්ෂා කාවර්ධනය) පිළුප්‍ර මුතල් සෑවු වයෝ වෘත්තීය යැත්ත්ස්ලක් (නොපාර්කුම වූත්ත්)				
වයක	*දිනු තිබෙන නිවැරදි * තුළ විවෘත වයෝ	** සහයෝගී නිවැරදි * තුළ විවෘත වයෝ	සංඛ්‍යා සේවකයා වෙත සෑවු විවෘත ස්ථානයක්	වයෝ
සතු 6 සිට මින් 3 දක්වා				6 ඩියුණය - 3 මාත්‍රය වයෝ
1 මුත්ත ඇති වැටින විට සිය සෑවු විට සෑවු විට				1. තුළ පුළුවුන් තුළ විට සෑවු විට සෑවු විට
2 රු වැටින විට සෑවු විට සෑවු විට සෑවු විට සෑවු විට				2. ඉ පිළිවා සෑවු විට සෑවු විට සෑවු විට සෑවු විට
3 නිඩින්ස දැකිවා විගා ගෙයෙක සෑවු විට සෑවු විට සෑවු විට				3. පෙශි පෙශි පෙශි පෙශි පෙශි පෙශි පෙශි
4 යම් උර්ධ්වයෙක සෑවු විට සෑවු විට සෑවු විට සෑවු විට				4. පුළුවුන් පුළුවුන් පුළුවුන් පුළුවුන් පුළුවුන්
5 සිය පැහැදිලි සෑවු විට				5. නොයෙක සෑවු විට සෑවු විට
මින් 3 සිට 6 දක්වා				6 ඩියුණය - මාත්‍රය විට
1 මුත්ත ඇති විට සිය සිය සිය සිය සිය සිය				1. තුළ පුළුවුන් තුළ විට සෑවු විට
2 ඇඩින්ස පැහැදිලි සෑවු විට සෑවු විට				2. විශ්වාසා පිශ්වාසා පිශ්වාසා පිශ්වාසා
3 යම් පැවත සෑවු විට සෑවු විට				3. පොරුන්සාප් පොරුන්සාප් පොරුන්සාප්
4 ගිඹුදු යම් විට සෑවු විට				4. ගිඹුදු යම් විට සෑවු විට
5 සහිත යම් විට				5. කා තා තා තා තා තා තා තා තා
6 යම් විට				6. පෙශි පෙශි පෙශි
මින් 6 සිට 9 දක්වා				7. ඩාතුම් ඩාතුම් ඩාතුම්
1 දි ඇති වැටින විට				8. පුළුවුන් පුළුවුන් පුළුවුන්
2 දි ඇති විට සිය ඇති සිය ඇති සිය ඇති				9. මුතු මුතු මුතු මුතු මුතු
3 ඇති ඇති සිය ඇති				10. මුතු මුතු මුතු මුතු මුතු
4 යම් යම් යම් යම්				11. මුතු මුතු මුතු මුතු මුතු

* (මින් ගෙවා ඇ / පිය / රැකිලුහැන් විසින් පිටවර ඇතිවය)
* (තාප් / තාප් / පාරායිජ්පාල්ස්ක්ලාස් න්‍රුප්පාල්ස් බොක්ස්)

** (මුළු ගෙවා සිය තිබුන් විට දරුවා පිටවර සිය මින් පිටවර)

** (මුළු ගෙවා සිය මින් පිටවර)

10

The digitalized version of the Baby Card displays a grid-based interface for managing health history. The columns are labeled "Date", "Reason for health visit", and "Hospital". Each row represents a recorded visit, with the date, reason, and hospital name listed. A large orange "EDIT" button is located at the bottom center of the grid area.

Digitalized Version

CONCEPTS AND INNOVATION



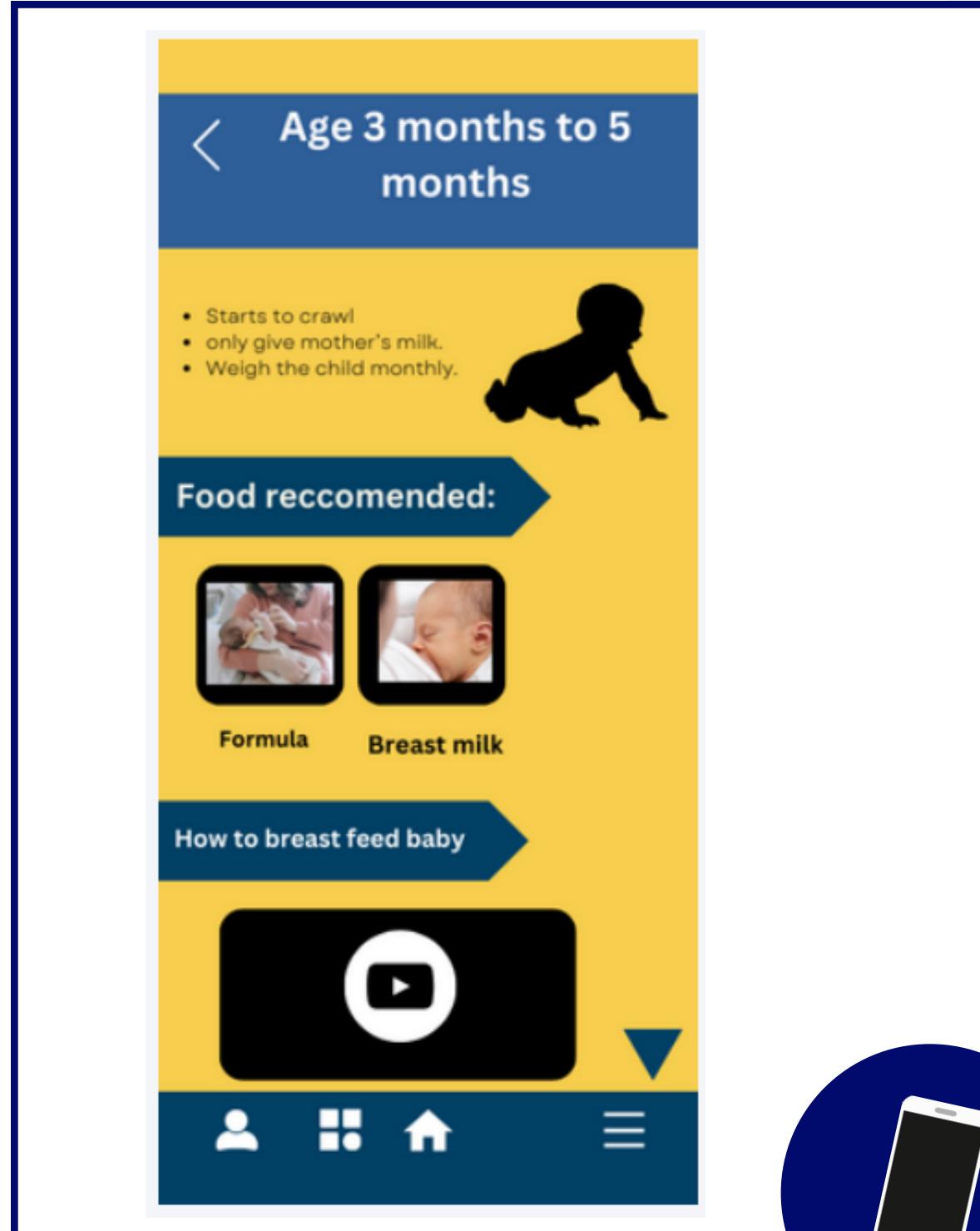
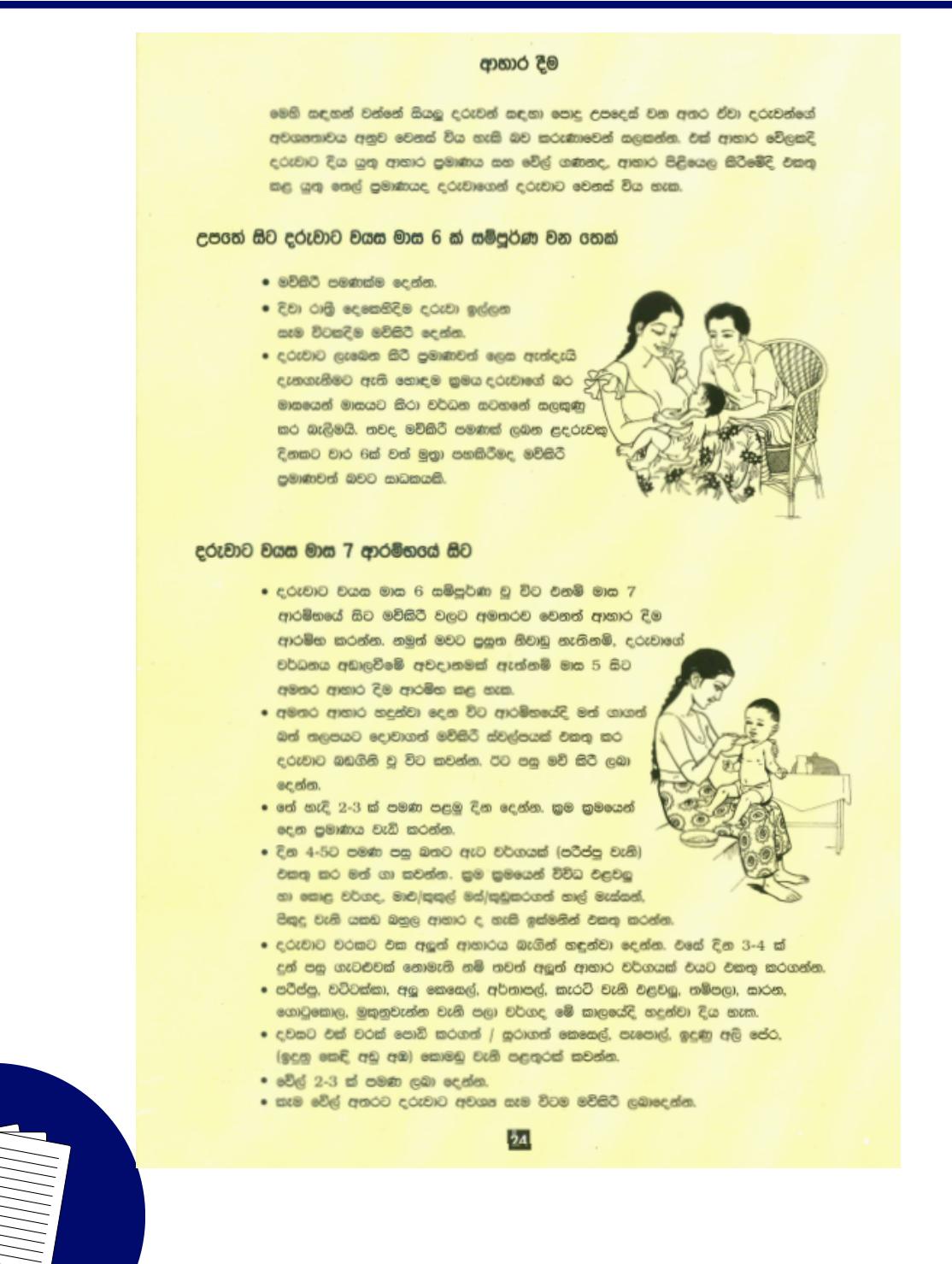
Instructions

Tips for raising the Baby

Offers **categorized tips** and **videos** for raising babies, adapting content as they grow to help mothers track their progress.



Manual Baby Card



Digitalized Version

CONCEPTS AND INNOVATION



Data Analysis

Each village domain and Public **Health Midwife will monitor community sections at risk for health crises** (e.g., dengue outbreaks or malnourished children)



This allows facilitating relief funds, organizing public awareness, and vaccination campaigns for the needed areas



Digitalized Version

CONCEPTS AND INNOVATION

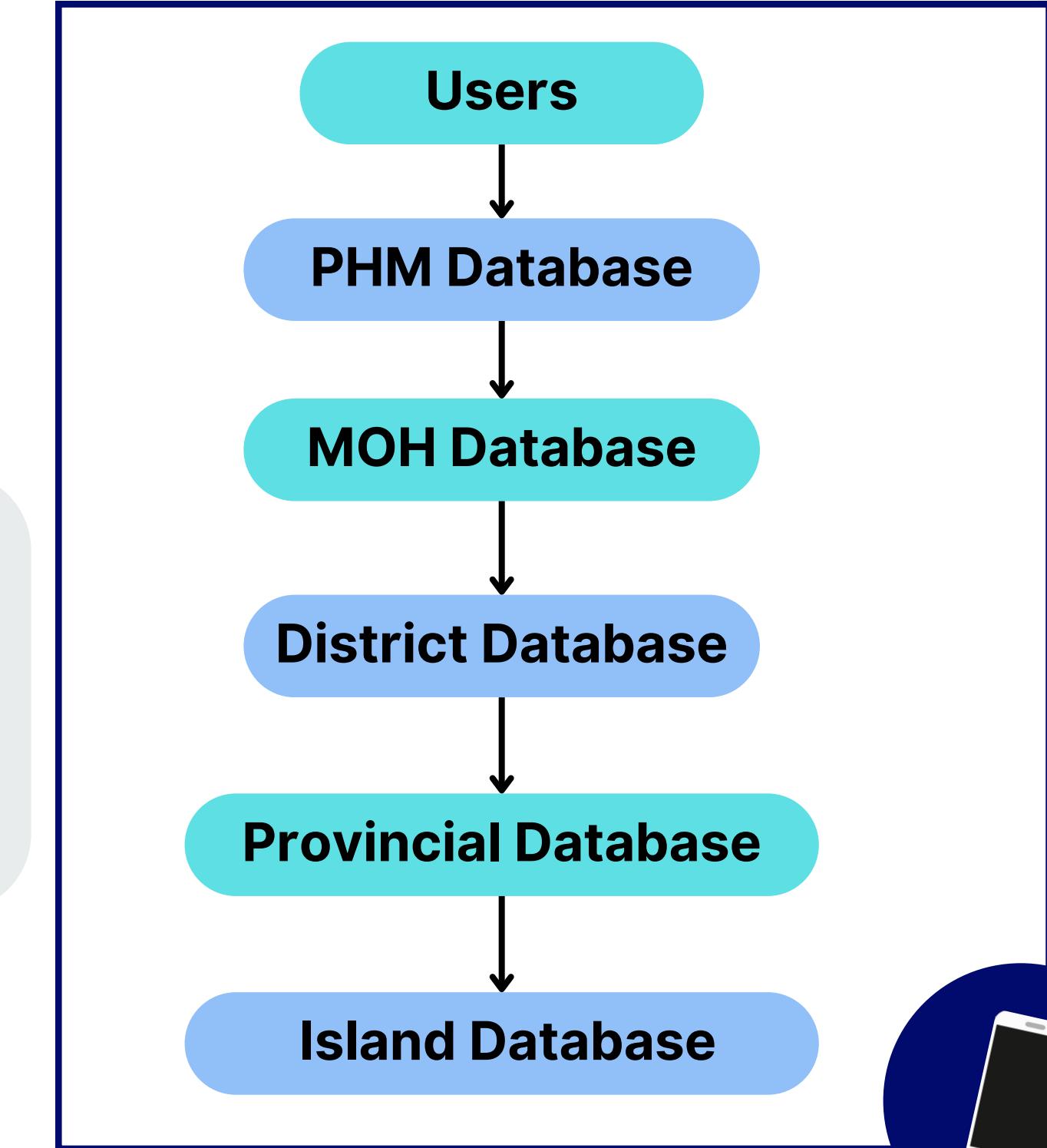


Data Analysis

Data entered in the app, including information on infectious diseases, **is stored in the village officer domain database and forwarded to higher health authorities,**



This **replaces manual record-keeping** by midwives and officers.



CONCEPTS AND INNOVATION



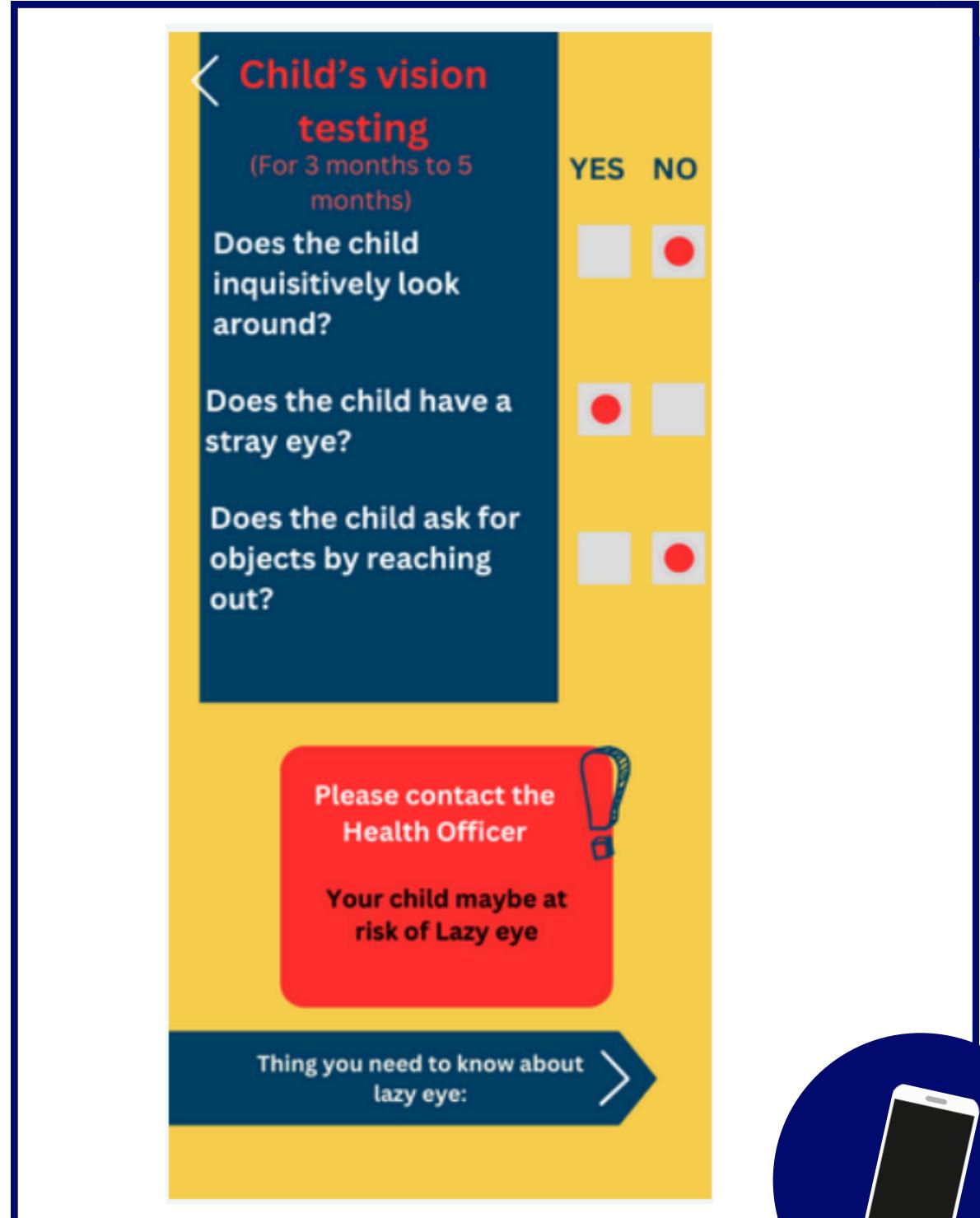
Predictions and Possibilities

Health officers and caregivers update child behavior records and complete age-specific surveys.

A machine learning model predicts health risks and growth issues based on the data, informing them accordingly.

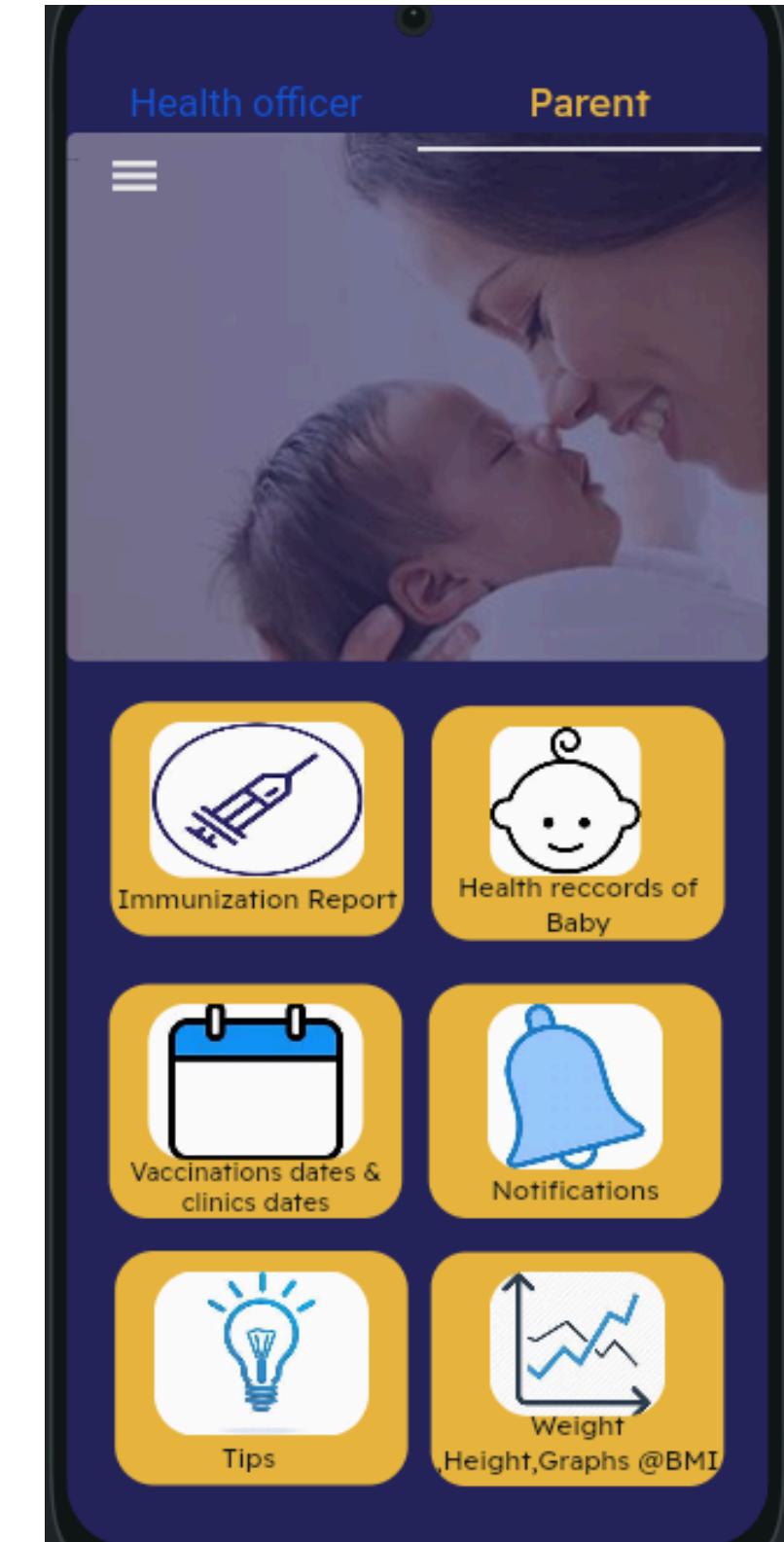


Manual Baby Card

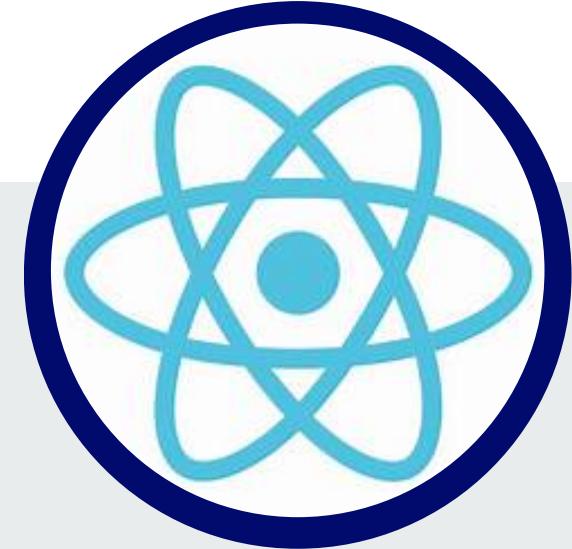


Digitalized Version

FUNCTIONALITY OF THE PROTOTYPE AND TECHINCAL IMPLEMENTATION



RESOURCES AND PLATFORMS



React Native

- We utilized React Native to develop our Expo Go app, leveraging its capability to create native mobile applications using JavaScript and React.



Fire base

- We chose to utilize Firebase due to its ability to manage data in real-time and provide an enhanced app-usage experience to the users



Expo

- Expo Go enabling users to access and run previously bundled versions of our JavaScript code, either by navigating to different versions or scanning a QR code.

RESOURCES AND PLATFORMS



A screenshot of the Firebase Project Overview page for a project named "BABY CARD". The left sidebar contains links for Project shortcuts, Authentication, Firestore Database, Functions, What's new, Extensions, Release Monitor, Product categories, Build, Release & Monitor, Analytics, Engage, and All products. The main area features a 3D illustration of two people, one holding a tablet, with a yellow crown icon above them. A banner at the top says "Receive email updates about new Firebase features, research, and events" and "Sign up". Below the banner, it says "BABY CARD" and "Spark plan". It shows "3 apps" and "BABYCARD". A button to "+ Add app" is also present. At the bottom, it says "Waiting for Analytics data...".

Firebase

A screenshot of the Visual Studio Code (VS Code) interface. The left sidebar shows a file tree with a folder named "BRAINSTORM" containing "BABY CARE LINK" which includes ".expo", "assets", "components", "node_modules", and "screens". Inside "screens", "Login.js" is selected. The main editor area shows the code for "Login.js":

```
BABY CARE LINK > screens > JS Login.js > ...
1 import React from 'react';
2 import { StatusBar } from 'expo-status-bar';
3 //formik
4 //import { Formik } from 'formik';
5
6 import {
7   StyledContainer,
8   InnerContainer,
9   PageLogo,
10  PageTitle
11  //SubTitle,
12  //StyledFormArea
13 } from './components/styles';
14
15 const Login = () => {
16   return (
17     <StyledContainer>
18       <InnerContainer>
19         <PageLogo resizeMode="cover" source={require('../assets/wp2855598.jpg')} />
20         <PageTitle>Flower Crib</PageTitle>
21       </InnerContainer>
22     </StyledContainer>
23   );
24 }
25 export default Login;
26
27 //import {View, view} from 'react-native';
28
29 /*const Login = () => {
30   return (
31     <StyledContainer>
32       <StatusBar style="dark" />
33       <InnerContainer>
34         <PageLogo resizeMode="cover" source={require('../assets/wp2855598.jpg')} />
35         <PageTitle>Flower Crib</PageTitle>
36         <SubTitle>Account Login</SubTitle>
37       </InnerContainer>
38     </StyledContainer>
39   );
40 }
41 export default Login;
```

The status bar at the bottom shows icons for file operations and a search bar.

VS CODE

TARGET AUDIENCE AND MARKET ANALYSIS

- Our project targets healthcare officers, parents, and government officers, with a special emphasis on government collaboration for implementation.
- By engaging government officers, we aim to ensure seamless integration into existing healthcare systems.
- Ultimately, our goal is to improve child healthcare by facilitating easy access to immunization records for both healthcare providers and parents.



REGULATORY ASPECTS AND IP



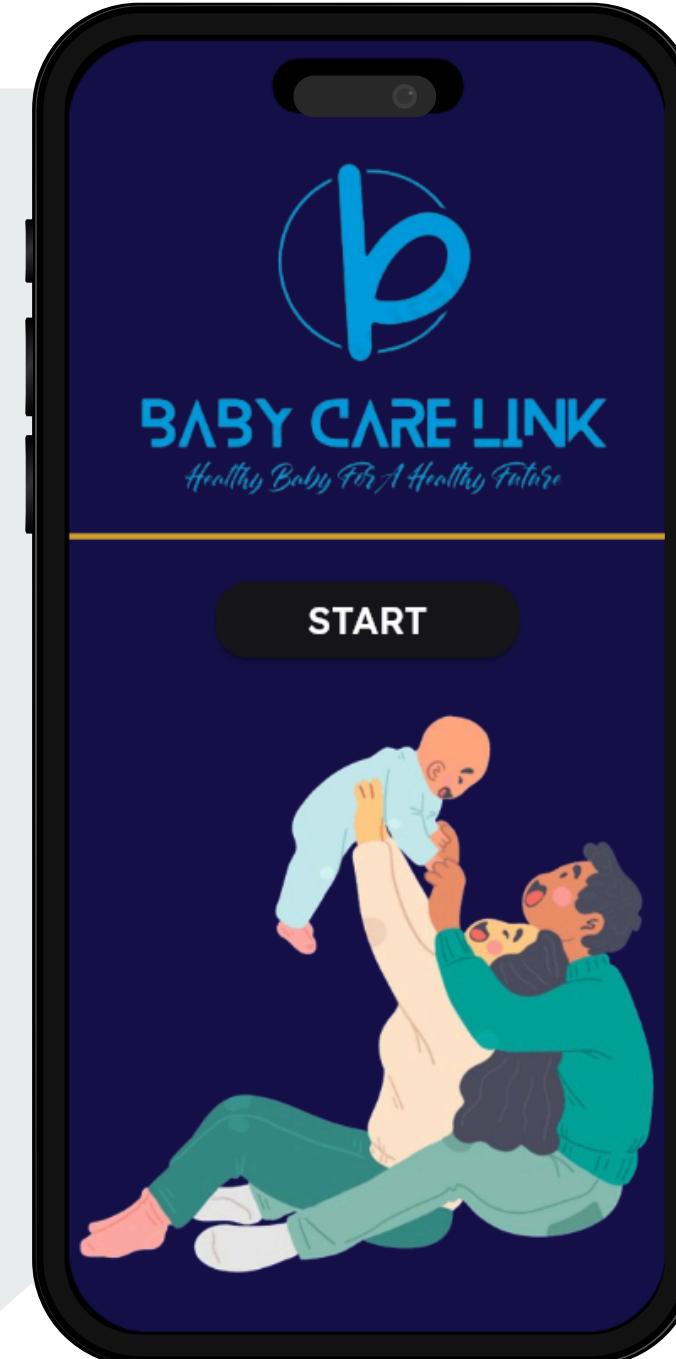
- Which regulatory classification category does our product fall into?
- How can we protect our innovative product as an intellectual property?



REGULATORY PATHWAY (CLASS 2)



- Compliance with Sri Lanka's healthcare and data protection regulations
- Collaboration with healthcare authorities for integration and adherence to national health strategies
- Adaptation to changes in healthcare and data protection regulations



- Ethical review and health IT certification
- Continuous monitoring of regulatory compliance
- User training and education
- Comprehensive security assessment for data encryption and handling





- **Identify & Protect IP:** Seek patents and register trademark.
- **Copyright Protection:** Secure app code and design.
- **NDAs & Confidentiality:** Safeguard IP with agreements.
- **Monitor Infringements:** Regularly check for IP violations.
- **Work with Experts:** Navigate IP laws effectively.



THANK YOU

FOR YOUR ATTENTION

Presented by,
Team Elevation



