



اُنِيْوَرْسِيْٓتِيْ ٓتِيْكَنُوْلُوْجِيْ ٓمَارَا
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BACHELOR OF INFORMATION TECHNOLOGY (HONS.)

ICT602 : MOBILE TECHNOLOGY AND DEVELOPMENT

GROUP PROJECT TITLE : HEALTHLOCATOR APPLICATION

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1. Introduction

The Health Locator application is an Android-based mobile app designed to help users find the nearest hospitals based on their current location. The application uses Google Maps for navigation and the mobile device's built-in GPS to track the user's location, providing real-time hospital search results in the vicinity. Additionally, the app offers a personalized user experience by allowing users to register their details, such as name, email, phone number, and health-related information. This ensures that the app is tailored to meet individual needs, whether users are seeking general healthcare or specialized medical services. By integrating Google Maps, Health Locator not only helps users find nearby hospitals but also provides turn-by-turn navigation to guide them there. The seamless combination of location tracking and user-friendly interface makes the Health Locator app an essential tool for anyone needing quick access to healthcare facilities.

2.Target Users

The Health Locator application targets the following user groups:

- **General public :**

Individuals who need quick access to healthcare services, especially in emergencies.

- **People with chronic health conditions:**

Those who require immediate access to hospitals and medical centers for ongoing health issues.

- **Tourists and travelers:**

Visitors unfamiliar with the area can quickly find nearby medical facilities.

- **Healthcare professionals and caregivers:**

People who need to find medical facilities for patients or family members.

3. Context of the application

The application leverages GPS technology to track the user's exact location in real time. This means that, once the user opens the app, it detects their position using GPS data from their smartphone. Based on this location, the app instantly provides a list of nearby hospitals. This feature is particularly valuable in emergencies, where every second counts. Instead of manually searching for nearby healthcare facilities, users can quickly access a comprehensive list of hospitals closest to them.

Furthermore, the app doesn't just stop at listing hospitals; it enhances the user experience by integrating with Google Maps. This allows the app to provide precise turn-by-turn directions to the nearest hospital. Users can follow these directions to reach their destination efficiently without the confusion of having to search for the hospital's location or contact details.

In essence, the application simplifies the process of finding and navigating to healthcare facilities, ensuring that users can access timely medical assistance when needed the most, all with the help of modern GPS and mapping technology.

4. Mobile Device Characteristics

- **Platform:**

The Health Locator app is designed to work specifically on Android smartphones, which are the most widely used mobile devices globally. The app takes full advantage of Android's capabilities to offer features such as real-time location tracking and hospital search.

- **Hardware Requirements:**

The mobile devices must be equipped with GPS functionality, which is essential for determining the user's location. Additionally, the app requires an active internet connection to access real-time hospital data and map services.

- **Google Maps Integration:**

The app integrates Google Maps for location-based services, helping users navigate to the nearest hospital with step-by-step directions. Google Maps is trusted and widely used, making the navigation experience familiar and easy for users.

- **Device Compatibility:**

The Health Locator app is optimized for a range of Android devices, from budget smartphones to more powerful models. It's designed to ensure compatibility with devices of different screen sizes, processing power, and storage capacity.

- **Internet Connection:**

A stable internet connection is necessary for the app to access real-time data, including locating hospitals and providing turn-by-turn navigation. Users need either Wi-Fi or mobile data to ensure smooth functionality.

5. Mobile User Characteristics

- **Broad User Base:**

Health Locator is designed for a wide range of users, from those with advanced technical skills to those who are less familiar with mobile apps. This ensures that everyone can benefit from the app, regardless of their tech knowledge.

- **Age Range:**

The app targets users across all age groups, including young adults who are familiar with technology and elderly users who might be unfamiliar with smartphones. The interface is simplified to ensure it is easy to navigate for users with limited mobile experience.

- **User-Friendly Interface:**

The app features a minimalistic and intuitive interface to cater to users with different levels of technical expertise. Its design ensures that individuals with no prior experience using health-related apps can easily navigate through it without confusion.

- **Accessibility:**

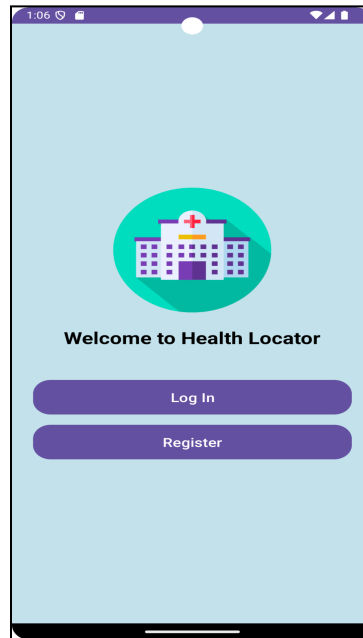
The app ensures accessibility for individuals with varying levels of mobility or technical skills, offering large text, easy-to-read fonts, and simple navigation for users who may not be as proficient with technology.

- **Health-Focused Needs:**

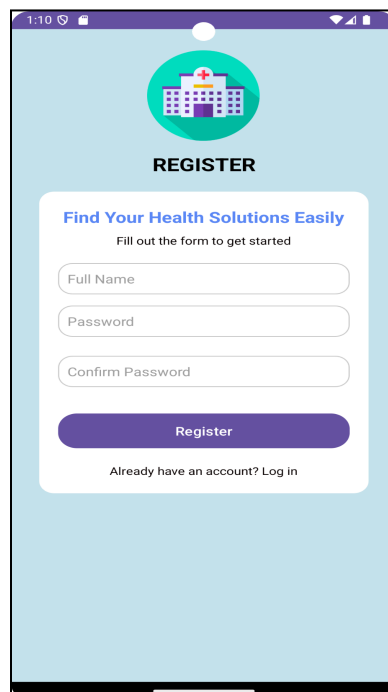
The app's functionality is designed around healthcare needs. It helps users with chronic conditions find specific hospitals or healthcare services they might need. This is valuable not just for emergencies but also for those seeking routine care.

6. Interfaces

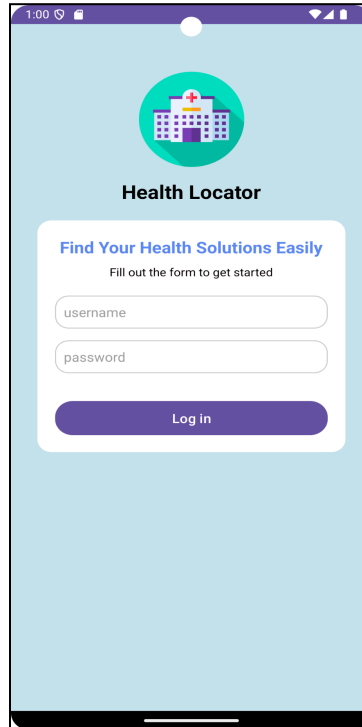
6.1 Main



6.2 Register



6.3 Login



The screenshot shows the login screen of the 'Health Locator' app. At the top, there is a status bar with the time '1:00' and various icons. Below the status bar is a circular logo featuring a stylized building with a red cross. The title 'Health Locator' is centered below the logo. A white card contains the text 'Find Your Health Solutions Easily' in blue, followed by 'Fill out the form to get started' in a smaller font. There are two input fields: 'username' and 'password'. Below these fields is a purple 'Log in' button.

1:00

Health Locator

Find Your Health Solutions Easily

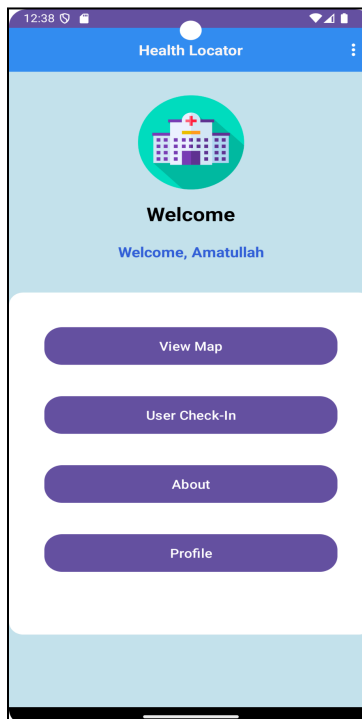
Fill out the form to get started

username

password

Log in

6.4 Homepage



The screenshot shows the homepage of the 'Health Locator' app. At the top, there is a status bar with the time '12:38' and various icons. Below the status bar is a blue header with the text 'Health Locator' and a menu icon. Below the header is a circular logo featuring a stylized building with a red cross. The title 'Welcome' is centered below the logo, followed by 'Welcome, Amatullah' in a smaller font. A white card contains four purple buttons: 'View Map', 'User Check-In', 'About', and 'Profile'.

12:38

Health Locator

Welcome

Welcome, Amatullah

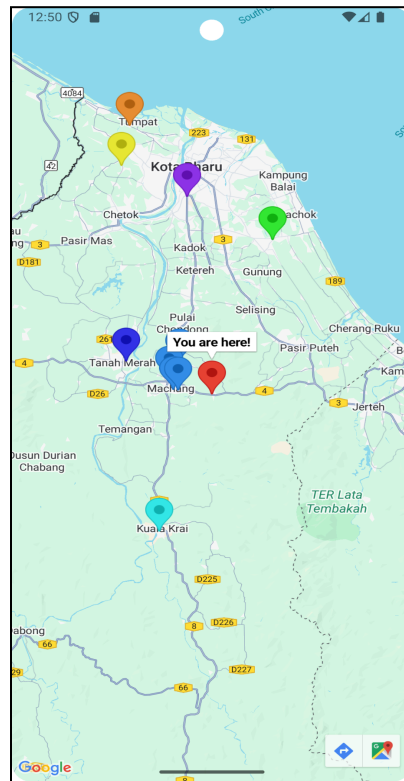
View Map

User Check-In

About

Profile

6.5 View Map



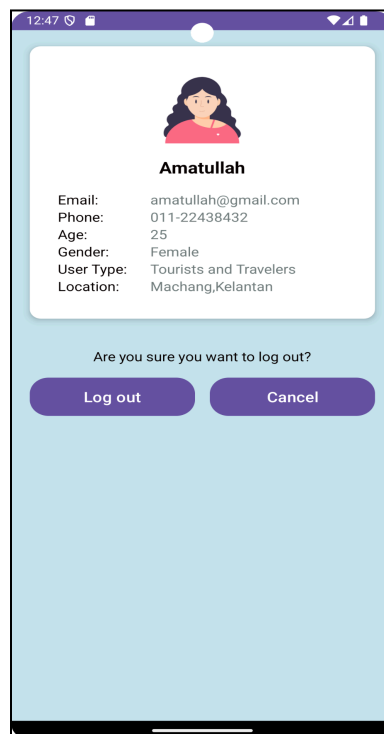
6.6 User Check In

A screenshot of a mobile application interface for a 'Check In' form. The form has a light blue background and contains several input fields and buttons. The fields are: 'Enter your name', 'Enter your email', 'Enter your phone number', 'Enter your age', 'Male' and 'Female' radio buttons, 'Public' dropdown menu, and 'Enter your location'. There are two buttons at the bottom: 'Submit' and 'Home'. The time 12:54 is displayed at the top left.

6.7 About



6.8 Profile



7. Conclusion

The Health Locator app is a practical and user-centric solution for navigating healthcare needs in real-time. By harnessing the power of GPS and Google Maps, the app makes it easy for users to find nearby hospitals, ensuring they receive the medical care they need without unnecessary delays. Whether users are unfamiliar with the area, have specific healthcare needs, or are simply seeking general medical assistance, the app offers a seamless and efficient way to locate healthcare facilities. Its design caters to a wide variety of users, from the tech-savvy to those with limited mobile experience, offering a simple and intuitive interface. Moreover, its integration with essential mobile device capabilities, such as location tracking and navigation, ensures that users can rely on the app for real-time, accurate hospital information. Ultimately, the Health Locator app not only improves access to healthcare services but also enhances the overall healthcare experience, making it an essential tool for anyone in need of medical assistance.

Links:

LINK VIDEO: https://youtu.be/h6nH_vBNCDY

LINK GITHUB: <https://github.com/RubyZawawi/GROUP-PROJECT-ICT602>