

Introduction to Mobile Application Development EEI3269

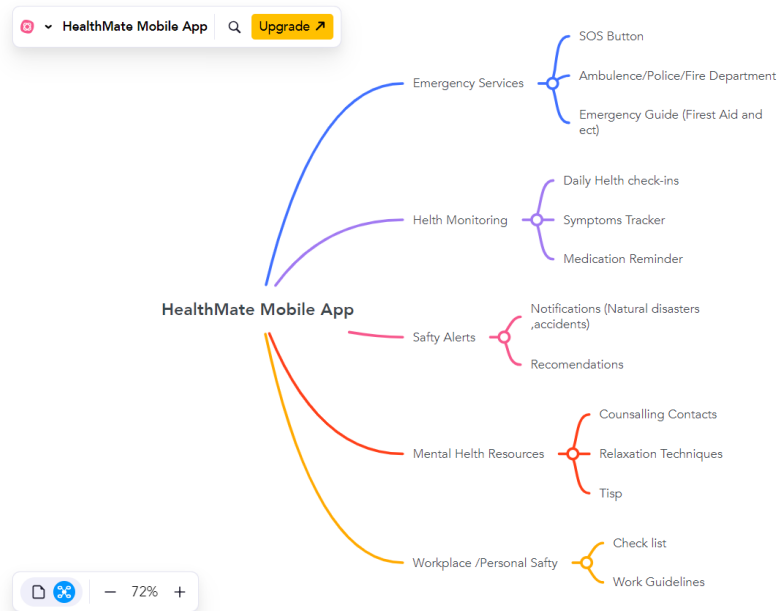
LAB Report - WE

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Report Submission Date	: 2024/11/17

Scenario 6 : Health And Safety

Application Name that I picked : Health Mate

1. Mind Map



Mind Map Link :

<https://mm.tt/app/map/3514918076?t=WIFncoQZuX>

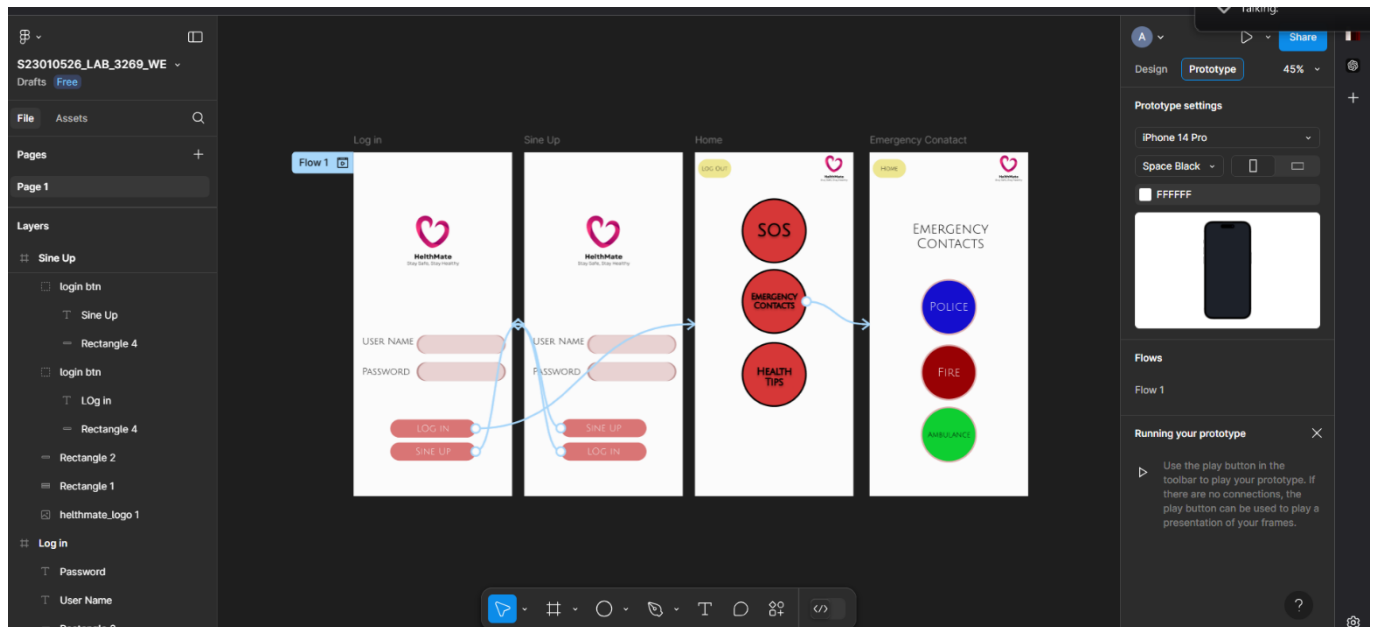
2.

Our Health and Safety app Health Mate uses real-time sentiment analysis and location data to adapt to user needs. By analyzing user input like text or voice, the app identifies emotional states (example: stress or anxiety) for example if user type text unusual hurry then we can help them by asking them if thay need emergency contacts or other emergency features and we can recommends tailored features like relaxation exercises or mental health resources. Additionally, location-based notifications provide personalized safety alerts, such as nearby health risks or weather warnings. This real-time adaptability creates an engaging and user-friendly experience, ensuring the app is relevant to the user's current context and emotional state. AI and machine learning enhance personalization, enabling predictive recommendations based on historical usage data.

3.

Figma Wire Frame Link :

https://www.figma.com/design/EPGTxhYV08PapicJlnuVRB/S23010526_LAB_3269_WE?node-id=0-1&t=vH9Zc1uIO1AfsLJA-1



4. Creating React Native App

```
C:\WINDOWS\system32\cmd. x + v

Asith@Asitha-Kanchana MINGW64 ~/Desktop/Open University Sri Lanka/React Native/LAB (main)
$ npx create-expo-app s23010526-LAB-WE
Creating an Expo project using the default template.

To choose from all available templates pass in the --template arg:
$ npx create-expo-app --template

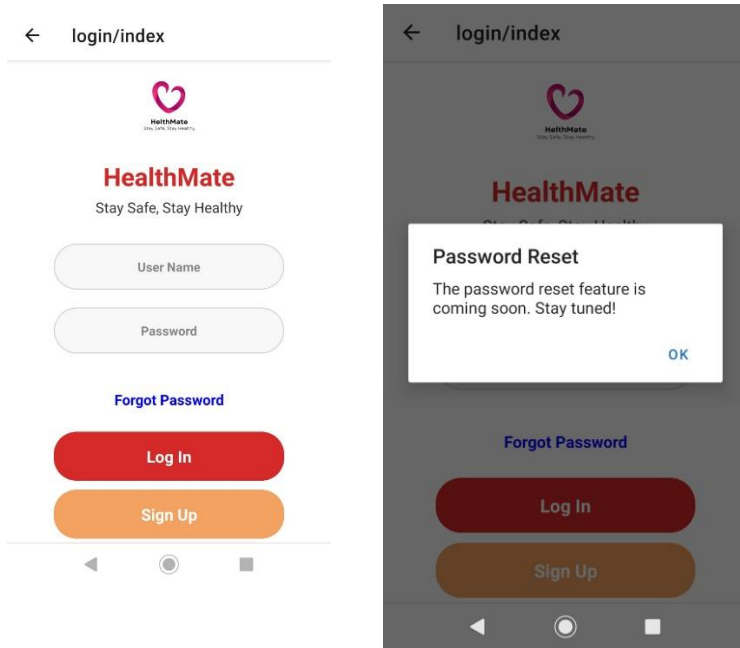
To choose from all available examples pass in the --example arg:
$ npx create-expo-app --example

✓Downloaded and extracted project files.
> npm install
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if
you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerfu
l.
npm warn deprecated @babel/plugin-proposal-nullish-coalescing-operator@7.18.6: This proposal has been merged to the ECMA
Script standard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-nullish-coalescing-oper
ator instead.
npm warn deprecated @babel/plugin-proposal-class-properties@7.18.6: This proposal has been merged to the ECMA Script st
andard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-class-properties instead.
npm warn deprecated rimraf@2.6.3: Rimraf versions prior to v4 are no longer supported
npm warn deprecated @babel/plugin-proposal-optional-chaining@7.21.0: This proposal has been merged to the ECMA Script st
andard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-optional-chaining instead.
npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
```

Clarification : I have Mostly Used Last Designer Report 4 Code for this Project Because time is limited so most of the parts are already I have researched

Two UI

Logging Page



Code :

```
// for routing
import { router } from "expo-router";
import { StatusBar } from "expo-status-bar";
// Main Packages
import { StyleSheet, Text, View, Image, TextInput, TouchableOpacity } from "react-native";
// to add Alert to forgot password
import { Alert } from 'react-native';

export default function App() {
  return (
    <View style={styles.container}>
      {/* statusbar config */}
      <StatusBar style="dark" hidden={true} />

      {/* Logo/Title installment */}
      <View style={styles.logoContainer}>
        <Image
          source={require('../assets/images/helthmate_logo.png')} //logo location path
          style={styles.logoImage}
        />
        {/* app name */}
        <Text style={styles.title}>HealthMate</Text>
        {/* app slogan */}
        <Text style={styles.subtitle}>Stay Safe, Stay Healthy</Text>
      </View>

      {/* Username Input */}
      <TextInput
        style={styles.input}
        placeholder="User Name"
        placeholderTextColor="#888" //almost transparent background color for txt_input
      />

      {/* Password Input */}
      <TextInput
        style={styles.input}
        placeholder="Password"
        placeholderTextColor="#888" //almost transparent background color for txt_input
        secureTextEntry={true}
      />

      {/* Buttons */}
      <View style={styles.buttonContainer}>
        {/* forgot password */}
        {/* still i havent implimented forgot pass option so this is place holder for that */}
        <TouchableOpacity onPress={() => Alert.alert("Password Reset", "The password reset feature is coming soon. Stay tuned!")}
          style={styles.loginBtnFogot}>

```

```

        <Text style={styles.btnTextFogot}>Forgot Password</Text>
      </TouchableOpacity>
    { /* Logging button */ }
    { /* i have used navigation by using router.push it is easier than other method */ }
    <TouchableOpacity onPress={() => router.push('/home')} style={styles.loginBtn}>
      <Text style={styles.btnText}>Log In</Text>
    </TouchableOpacity>
    { /* sign up button */ }
    <TouchableOpacity onPress={() => router.push('/signup')} style={styles.signupBtn}>
      <Text style={styles.btnText}>Sign Up</Text>
    </TouchableOpacity>
  </View>
</View>
);
}

```

```

const styles = StyleSheet.create({
  // Container styles
  container: {
    flex: 1,
    backgroundColor: '#fff',
    alignItems: 'center',
    paddingHorizontal: 20,
    justifyContent: 'center',
  },
  // Logo container styles
  logoContainer: {
    alignItems: 'center',
    marginBottom: 30,
  },
  // Logo image styles
  logoImage: {
    width: 100,
    height: 100,
  },
  // Title text styles
  title: {
    fontSize: 28,
    fontWeight: 'bold',
    color: '#d62828', // HealthMate's primary red color
    marginTop: 10,
  },
  // slogan styling
  subtitle: {
    fontSize: 16,
    color: '#333',
    marginTop: 5,
  },
  // Input fields (most of styles are previous Designer report 4)
  input: {
    borderRadius: 30,
    width: "80%",
    backgroundColor: '#f8f8f8', // light color bg
    padding: 15,
    marginBottom: 20,
    textAlign: 'center',
    fontWeight: 'bold',
    borderColor: '#ccc',
    borderWidth: 1,
  },
  // Login button styles
  loginBtn: {
    borderRadius: 25,
    backgroundColor: '#d62828', // Hred color background it is light red
    padding: 15,
    width: "100%",
    marginBottom: 10,
  },
  loginBtnFogot: {
    borderRadius: 10,
    padding: 15,
    width: "100%",
    marginBottom: 10,
  },
  // Sign Up button
  signupBtn: {
    borderRadius: 25,
    backgroundColor: '#f4a261', // light orange color
    padding: 15,
    width: "100%",
  },
});

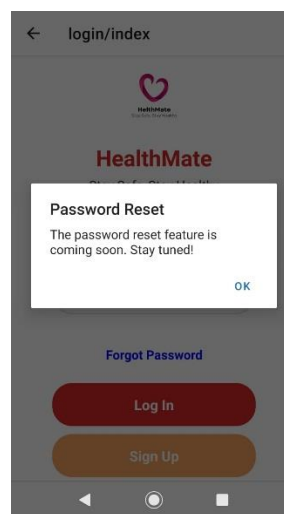
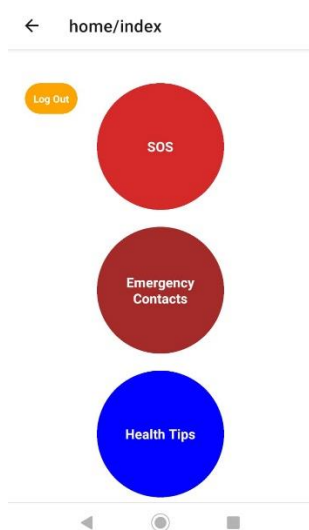
```

```

},
// Button text
btnText: {
  fontSize: 18,
  textAlign: 'center',
  fontWeight: 'bold',
  color: 'white',
},
btnTextFogot: {
  fontSize: 16,
  textAlign: 'center',
  fontWeight: 'bold',
  color: 'blue',
},
// Button container
buttonContainer: {
  width: "80%",
  marginVertical: 5,
},
});

```

Home Page



```

import React from "react";
import { View, Text, StyleSheet, TouchableOpacity, Alert, ScrollView } from "react-native";
import { router } from "expo-router";
// Alert Box
const HomeScreen = () => {
  const handleLogOut = () => {
    Alert.alert(
      "Logging Out",
      "Are you sure you want to Log Out?",
      [
        {
          text: "Yes",
          onPress: () => {
            console.log("Logged Out");
            router.push('/login'); // Navigate to login screen after logging out
          },
        },
        { text: "No", onPress: () => console.log("Cancel Log Out") },
      ],
    );
  };

  return (
    <View style={styles.container}>
      {/* Log Out Button */}
      <TouchableOpacity style={styles.logOutBtn} onPress={handleLogOut}>
        <Text style={styles.logOutText}>Log Out</Text>
      </TouchableOpacity>

```

```

    {/* Scrollable Content */}
    <ScrollView
      contentContainerStyle={styles.scrollContainer} // content alignment update
      showsVerticalScrollIndicator={false} // scroll indicator hide
    >
      {/* SOS Button nav */}
      <TouchableOpacity
        style={styles.sosButton}
        onPress={() => Alert.alert("SOS Activated")} // alart ekak eawa
      >
        <Text style={styles.btnText}>SOS</Text>
      </TouchableOpacity>

      {/* Emergency Contacts Button nav */}
      <TouchableOpacity
        style={styles.emergencyContactsButton}
        onPress={() => router.push("/emergency-contacts")}
      >
        <Text style={styles.btnText}>Emergency{` \n `}Contacts</Text>
      </TouchableOpacity>

      {/* Health Tips Button */}
      <TouchableOpacity
        style={styles.healthTipsButton}
        // page eka haduwe na
        onPress={() => Alert.alert("Health Tips Coming Soon!")}
      >
        <Text style={styles.btnText}>Health Tips</Text>
      </TouchableOpacity>
    </ScrollView>
  </View>
);
};

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: "white", // bg color update
  },
  scrollContainer: {
    flexGrow: 1,
    alignItems: "center",
    justifyContent: "center",
    paddingVertical: 20, //padding page
  },
  logOutBtn: {
    position: "absolute",
    top: 40,
    left: 20,
    backgroundColor: "orange",
    padding: 10,
    borderRadius: 20,
    zIndex: 1, // stay in all button above
  },
  logOutText: {
    color: "white",
    fontWeight: "bold",
    fontSize: 12,
  },
  sosButton: {
    marginTop: 20,
    width: 150,
    height: 150,
    borderRadius: 75,
    backgroundColor: "#d62828", // Red for SOS
    justifyContent: "center",
    alignItems: "center",
    marginBottom: 20,
  },
  emergencyContactsButton: {
    width: 150,
    height: 150,
    borderRadius: 75,
    backgroundColor: "brown",
  },
});

```

```
        justifyContent: "center",
        alignItems: "center",
        marginBottom: 20,
      },
      healthTipsButton: {
        width: 150,
        height: 150,
        borderRadius: 75,
        backgroundColor: "blue",
        justifyContent: "center",
        alignItems: "center",
      },
      btnText: {
        color: "white",
        fontSize: 16,
        fontWeight: "bold",
        textAlign: "center",
      },
    });

export default HomeScreen;
```