



**COMSATS UNIVERSITY ISLAMABAD
ATTOCK CAMPUS**

Mobile Application Development Theory & Lab

Student Name	Usama Bin Arshad
Registration Number	Sp20-Bse-020
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Assignment	03

Submitted To : Sir Muhammad Kamram

App File

```
import { NavigationContainer } from "@react-navigation/native";
import { createNativeStackNavigator } from "@react-navigation/native-stack";
import Home from "../stack_screens/Home";
import SignIn from "../stack_screens/SignIn";
import SignUp from "../stack_screens/SignUp";
import About from "../stack_screens/about";
import Loc from "../stack_screens/Location";
import Namaz from "../stack_screens/Namaz";

export default function App() {
  const Stack = createNativeStackNavigator();
  return (
    <NavigationContainer>
      <Stack.Navigator
        initialRouteName="UI"
        screenOptions={{
          headerStyle: { backgroundColor: "blue" },
          headerTitleAlign: "center",
          headerTitleStyle: {
            color: "white",
            fontSize: 24,
            fontWeight: "bold",
          },
        }}
      >
        <Stack.Screen name="Sign In" component={SignIn}></Stack.Screen>
        <Stack.Screen name="Sign up" component={SignUp}></Stack.Screen>
        <Stack.Screen name="My Profile" component={About}></Stack.Screen>
        <Stack.Screen name="Welcome to Home" component={Home}></Stack.Screen>
        <Stack.Screen name="Location" component={Loc}></Stack.Screen>
        <Stack.Screen name="Namaz" component={Namaz}></Stack.Screen>
      </Stack.Navigator>
    </NavigationContainer>
  );
}
```

Home File

It Just has namaz button

Namaz File

```
import {
  StyleSheet,
  View,
  Text,
  FlatList,
  Image,
  TouchableOpacity
} from "react-native";
import React, { useEffect, useState } from "react";
import * as Location from "expo-location";

export default function Namaz() {
  const [prayer, setprayer] = useState("");
  const [location, setLocation] = useState(null);
  const [lat, setlat] = useState();
  const [lon, setlon] = useState();
  const [errorMsg, setErrorMsg] = useState(null);
  const [Address, setAddress] = useState(null);

  const click = async () => {
    let { status } = await Location.requestForegroundPermissionsAsync();
    if (status !== "granted") {
      setErrorMsg("Permission to access location was denied");
      return;
    }
    let location = await Location.getCurrentPositionAsync({});
    setLocation(location);
    setlat(lat);
    setlon(lon);
    GetAddress();
  };

  const Click = () => {
    alert(text);
  };

  const GetAddress = async () => {
    const getaddress = await Location.reverseGeocodeAsync({
      longitude: location.coords.longitude,
      latitude: location.coords.latitude,
    });
  };
}
```

```

    });
    let address = getAddress;
    setAddress(address);
    return getAddress;
  };
  let text = "Waiting..";
  if (errorMsg) {
    text = errorMsg;
  } else if (location) {
    text = JSON.stringify(Address);
  }
  const getPrayerTime = async () => {
    const ResposeType = {
      method: "Get",
    };
    try {
      const response = await fetch(
        "http://api.aladhan.com/v1/calendar?latitude=32.585411&longitude=71.543617000000004&method=2&month=12&year=2022.json",
        getPrayerTime
      );
      const json = await response.json();

      setprayer(json.data);
    } catch (error) {
      console.error(error);
    }
  };

  useEffect(() => {
    getPrayerTime();
    GetAddress();
  }, []);
  console.log(prayer);

  return (
    <View style={styles.container}>
      <Image
        style={{ height: 100, width: 160, alignSelf: "center", marginTop: 10 }}
        source={require("../assets/namaz.png")}
      ></Image>
      <Text
        style={{
          fontSize: 25,
          fontWeight: "bold",

```

```

        textAlign: "center",
        margin: 10,
        color: "white",
    }}
    >
    Current Monthly Timings
</Text>
<FlatList
  data={prayer}
  renderItem={({ item }) => (
    <View>
      <Text style={styles.item1}>Date: -{item.date.readable}</Text>
      <Text style={styles.item}>Fajar: -{item.timings.Fajr}</Text>
      <Text style={styles.item}>Dhuhr: -{item.timings.Dhuhr}</Text>
      <Text style={styles.item}>Asr: -{item.timings.Asr}</Text>
      <Text style={styles.item}>Maghrib: -{item.timings.Maghrib}</Text>
      <Text style={styles.item}>Isha: -{item.timings.Isha}</Text>
    </View>
  )}
/>
<View style={{ flexDirection: "row" }}>
  <TouchableOpacity style={styles.button} onPress={click}>
    <Text style={{ color: "white", fontSize: 15, fontWeight: "bold" }}>
      Get My Address
    </Text>
  </TouchableOpacity>
  <TouchableOpacity style={styles.button} onPress={Click}>
    <Text style={{ color: "white", fontSize: 15, fontWeight: "bold" }}>
      Show My Address
    </Text>
  </TouchableOpacity>
</View>
</View>
);
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: "dodgerblue",
  },
  button: {
    alignItems: "center",
    backgroundColor: "blue",
    padding: 10,

```

```
    marginLeft: 13,  
    width: "45%",  
  },  
  item: {  
    fontSize: 25,  
    textAlign: "center",  
    color: "white",  
    fontWeight: "bold",  
    borderWidth: 2,  
    borderRadius: 40,  
    padding: 10,  
    margin: 10,  
    borderColor: "black",  
  },  
  item1: {  
    fontSize: 30,  
    textAlign: "center",  
    color: "white",  
    fontWeight: "bold",  
    borderWidth: 5,  
    margin: 5,  
    padding: 5,  
    borderColor: "white",  
  },  
});
```

Screen Shots



