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**Assignment :4**

**Date:24/12/2024**

**Mobile Application Development**

**Assignmnet No :4**

**App.js**

```
import React, { useEffect } from 'react';  
import { StyleSheet, View, Text, Button, ActivityIndicator } from 'react-native';
```

```

import * as Location from 'expo-location';
import AsyncStorage from '@react-native-async-storage/async-storage';
import { useDispatch, useSelector } from 'react-redux';
import { setLocation, setError, setLoading } from './redux/locationslice';
import { Provider } from 'react-redux';
import store from './redux/store';

const App = () => {
  const dispatch = useDispatch();
  const { location, errorMsg, loading } = useSelector((state) => state.location);

  const fetchLocation = async () => {
    dispatch(setLoading(true));
    try {
      let { status } = await Location.requestForegroundPermissionsAsync();
      if (status !== 'granted') {
        dispatch(setError('Permission to access location was denied'));
        return;
      }

      let currentLocation = await Location.getCurrentPositionAsync({});
      const coords = {
        latitude: currentLocation.coords.latitude,
        longitude: currentLocation.coords.longitude,
      };

      await AsyncStorage.setItem('userLocation', JSON.stringify(coords));
      dispatch(setLocation(coords));
    } catch (error) {
      dispatch(setError('Failed to fetch location'));
    }
  };

  useEffect(() => {
    fetchLocation();
  }, []);

  useEffect(() => {
    const loadLocation = async () => {
      const storedLocation = await AsyncStorage.getItem('userLocation');
      if (storedLocation) {
        dispatch(setLocation(JSON.parse(storedLocation)));
      }
    };
    loadLocation();
  }, []);

```

```

return (
  <View style={styles.container}>
    <Text style={styles.header}>User Location</Text>
    {loading ? (
      <ActivityIndicator size="large" color="#1ecfd8" />
    ) : errorMsg ? (
      <Text style={styles.error}>{errorMsg}</Text>
    ) : (
      location && (
        <View style={styles.locationContainer}>
          <Text style={styles.text}>Latitude: {location.latitude}</Text>
          <Text style={styles.text}>Longitude: {location.longitude}</Text>
        </View>
      )
    )}
    <Button title="Refresh Location" onPress={fetchLocation} />
  </View>
);
};

```

```

const styles = StyleSheet.create({
  container: {
    flex: 1,
    justifyContent: 'center',
    backgroundColor: 'grey',
    alignItems: 'center',
    padding: 20,
  },
  header: {
    fontSize: 24,
    fontWeight: 'bold',
    marginBottom: 20,
  },
  error: {
    color: 'red',
    fontSize: 16,
    marginBottom: 20,
  },
  locationContainer: {
    marginVertical: 20,
  },
  text: {
    fontSize: 16,
  },
});

```

```

const AppWrapper = () => (

```

```
<Provider store={store}>
  <App />
</Provider>
);

export default AppWrapper;
```

## Locationslice.js

```
import { createSlice } from '@reduxjs/toolkit';

const locationSlice = createSlice({
  name: 'location',
  initialState: {
    location: null,
    errorMsg: null,
    loading: true,
  },
  reducers: {
    setLocation: (state, action) => {
      state.location = action.payload;
      state.errorMsg = null;
      state.loading = false;
    },
    setError: (state, action) => {
      state.errorMsg = action.payload;
      state.loading = false;
    },
    setLoading: (state, action) => {
      state.loading = action.payload;
    },
  },
});

export const { setLocation, setError, setLoading } = locationSlice.actions;
export default locationSlice.reducer;
```

## Store.js

```
import { configureStore } from '@reduxjs/toolkit';
import locationReducer from './locationslice';
```

```
const store = configureStore({
  reducer: {
    location: locationReducer,
  },
});
```

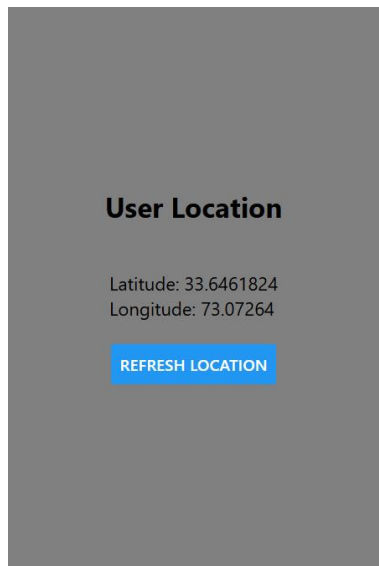
```
export default store;
```

## User Location

Latitude: 33.6461824  
Longitude: 73.07264

REFRESH LOCATION

## Live Location



## LoginScreen.js

```
import React, { useState } from 'react';
import { View, TextInput, Button, Text, StyleSheet } from 'react-native';
import { auth } from './firebaseConfig';
import { signInWithEmailAndPassword } from 'firebase/auth';
import * as Location from 'expo-location';
import AsyncStorage from '@react-native-async-storage/async-storage';

const LoginScreen = ({ navigation }) => {
  const [email, setEmail] = useState('');
  const [password, setPassword] = useState('');
  const [error, setError] = useState('');

  const handleLogin = async () => {
    try {

      await signInWithEmailAndPassword(auth, email, password);

      // Request location permissions
      let { status } = await Location.requestForegroundPermissionsAsync();
      if (status !== 'granted') {
        setError('Permission to access location was denied');
        return;
      }

      const location = await Location.getCurrentPositionAsync({});
      const userLocation = {
        latitude: location.coords.latitude,
        longitude: location.coords.longitude,
      };

      // Store location in AsyncStorage
```

```

    await AsyncStorage.setItem('userLocation', JSON.stringify(userLocation));

    // Navigate to Profile screen
    navigation.navigate('Profile');
  } catch (err) {
    setError(err.message);
  }
};

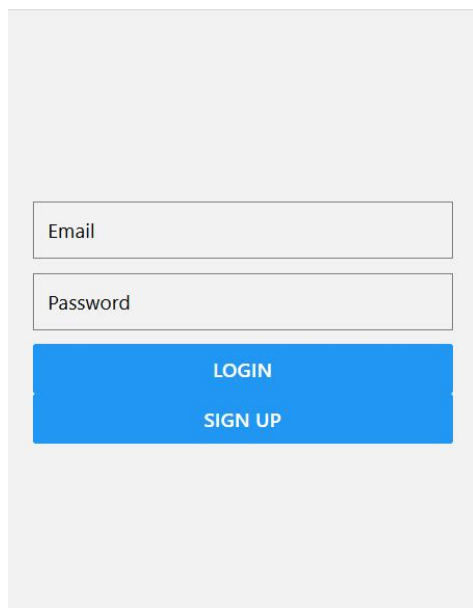
return (
  <View style={styles.container}>
    <TextInput
      style={styles.input}
      placeholder="Email"
      value={email}
      onChangeText={setEmail}
    />
    <TextInput
      style={styles.input}
      placeholder="Password"
      secureTextEntry
      value={password}
      onChangeText={setPassword}
    />
    {error && <Text style={styles.error}>{error}</Text>}
    <Button title="Login" onPress={handleLogin} />
  </View>
);
};

const styles = StyleSheet.create({
  container: { padding: 20, flex: 1, justifyContent: 'center' },
  input: { height: 40, borderColor: 'gray', borderWidth: 1, marginBottom: 10, paddingLeft: 10 },
  error: { color: 'red', marginBottom: 10 },
});

export default LoginScreen;

```

## Login

A UI mockup of a login screen. It features a light gray background. In the center, there are two white rectangular input fields stacked vertically. The top field is labeled 'Email' and the bottom field is labeled 'Password'. Below these fields is a solid blue rectangular button. The button contains two white text labels: 'LOGIN' at the top and 'SIGN UP' at the bottom, both in all caps.

## SignupScreen.js

```
import React, { useState } from 'react';
import { View, TextInput, Button, Text, StyleSheet } from 'react-native';
import { auth } from './firebaseConfig';
import { createUserWithEmailAndPassword } from 'firebase/auth';
import * as Location from 'expo-location';
import AsyncStorage from '@react-native-async-storage/async-storage';

const SignupScreen = ({ navigation }) => {
  const [email, setEmail] = useState('');
  const [password, setPassword] = useState('');
  const [error, setError] = useState('');

  const handleSignup = async () => {
    try {
      const userCredential = await createUserWithEmailAndPassword(auth, email,
password);

      let { status } = await Location.requestForegroundPermissionsAsync();
      if (status !== 'granted') {
        setError('Permission to access location was denied');
        return;
      }

      const location = await Location.getCurrentPositionAsync({});
```



```

const userLocation = {
  latitude: location.coords.latitude,
  longitude: location.coords.longitude,
};

    await AsyncStorage.setItem('userLocation', JSON.stringify(userLocation));
    await AsyncStorage.setItem('userEmail', email);

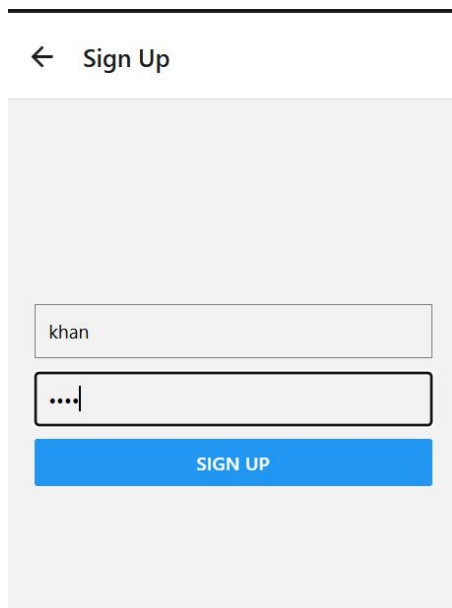
    navigation.navigate('Profile');
  } catch (err) {
    setError(err.message);
  }
};

return (
  <View style={styles.container}>
    <TextInput
      style={styles.input}
      placeholder="Email"
      value={email}
      onChangeText={setEmail}
    />
    <TextInput
      style={styles.input}
      placeholder="Password"
      secureTextEntry
      value={password}
      onChangeText={setPassword}
    />
    {error && <Text style={styles.error}>{error}</Text>}
    <Button title="Sign Up" onPress={handleSignup} />
  </View>
);
};

const styles = StyleSheet.create({
  container: { padding: 20, flex: 1, justifyContent: 'center' },
  input: { height: 40, borderColor: 'gray', borderWidth: 1, marginBottom: 10,
paddingLeft: 10 },
  error: { color: 'red', marginBottom: 10 },
});

export default SignupScreen;

```



## ProfileScreen.js

```
import React, { useEffect, useState } from 'react';
import { View, Text, StyleSheet } from 'react-native';
import AsyncStorage from '@react-native-async-storage/async-storage';
```

```
const ProfileScreen = () => {
  const [userLocation, setUserLocation] = useState(null);
  const [userEmail, setUserEmail] = useState(null);

  useEffect(() => {
    const loadUserData = async () => {
      const location = await AsyncStorage.getItem('userLocation');
      const email = await AsyncStorage.getItem('userEmail');
      if (location) {
        setUserLocation(JSON.parse(location));
      }
      if (email) {
        setUserEmail(email);
      }
    };
    loadUserData();
  }, []);

  return (
    <View style={styles.container}>
      {userLocation && userEmail ? (
        <>
          <Text style={styles.text}>Email: {userEmail}</Text>
        </>
      ) : null}
    </View>
  );
};
```

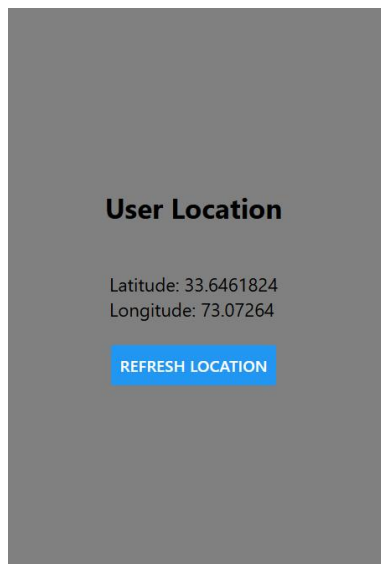
```

        <Text style={styles.text}>Latitude: {userLocation.latitude}</Text>
        <Text style={styles.text}>Longitude: {userLocation.longitude}</Text>
      </>
    ) : (
      <Text style={styles.text}>No user data found.</Text>
    )
  </View>
);
};

const styles = StyleSheet.create({
  container: { padding: 20, flex: 1, justifyContent: 'center' },
  text: { fontSize: 18, marginBottom: 10 },
});

export default ProfileScreen;

```



**Thanks**