```
import React from 'react';
import { NavigationContainer } from
'@react-navigation/native';
import { createBottomTabNavigator } from
'@react-navigation/bottom-tabs';
import HomeScreen from './screens/
HomeScreen';
import SettingsScreen from './screens/
SettingsScreen';
import { AppProvider } from './context/
AppContext';
const Tab = createBottomTabNavigator();
export default function App() {
 return (
  <AppProvider>
   <NavigationContainer>
    <Tab.Navigator>
```

```
<Tab.Screen name="Home"
component={HomeScreen} />
     <Tab.Screen name="Settings"
component={SettingsScreen} />
    </Tab.Navigator>
   </NavigationContainer>
  </AppProvider>
AppContext. Tsx
import React, { createContext, useState,
useContext } from 'react';
interface ContextProps {
 unit: 'metric' | 'imperial';
 setUnit: (val: 'metric' | 'imperial') => void;
 category: string;
 setCategory: (val: string) => void;
```

```
const AppContext =
createContext<ContextProps |
undefined>(undefined);
export const AppProvider: React.FC<{</pre>
children: React.ReactNode }> = ({ children
}) => {
 const [unit, setUnit] = useState<'metric' |
'imperial'>('metric');
 const [category, setCategory] =
useState('general');
 return (
  <a href="#">AppContext.Provider value={{ unit,</a>
setUnit, category, setCategory }}>
   {children}
  </AppContext.Provider>
export const useAppContext = () =>
```

```
useContext(AppContext)!;
Api.tsx
import axios from 'axios';
import { WEATHER_API_KEY,
NEWS_API_KEY } from '../constants';
export const fetchWeather = async (lat:
number, lon: number, unit: string) => {
 const url = `https://
api.openweathermap.org/data/2.5/
onecall?lat=${lat}&lon=${lon}&units=${unit}
&exclude=minutely,hourly,alerts&appid=$
{WEATHER_API_KEY}`;
 const res = await axios.get(url);
 return res.data;
};
export const fetchNews = async (category:
string) => {
 const url = `https://newsapi.org/v2/top-
```

```
headlines?country=in&category=$
{category}&apiKey=${NEWS_API_KEY}`;
 const res = await axios.get(url);
 return res.data.articles;
};
Helpers.tsx
export const filterNewsByWeather =
(weather: string, news: any[]) => {
 if (weather.includes('cold')) {
  return news.filter(n =>
n.title.toLowerCase().includes('death') ||
n.title.toLowerCase().includes('crisis'));
 } else if (weather.includes('hot')) {
  return news.filter(n =>
n.title.toLowerCase().includes('fear') ||
n.title.toLowerCase().includes('threat'));
 } else {
  return news.filter(n =>
n.title.toLowerCase().includes('win') ||
n.title.toLowerCase().includes('happy'));
```

```
HomeScreen, Tsx
import React, { useEffect, useState } from
'react';
import { View, Text, ScrollView,
ActivityIndicator } from 'react-native';
import * as Location from 'expo-location';
import { fetchWeather, fetchNews } from '../
utils/api';
import { useAppContext } from '../context/
AppContext';
import { filterNewsByWeather } from '../
utils/helpers';
export default function HomeScreen() {
 const { unit, category } = useAppContext();
 const [loading, setLoading] =
useState(true);
 const [weather, setWeather] =
```

```
useState<any>(null);
 const [news, setNews] =
useState<any[]>([]);
 useEffect(() => {
  (async () => {
   setLoading(true);
   const { status } = await
Location.requestForegroundPermissionsAs
ync();
   if (status !== 'granted') return;
   const loc = await
Location.getCurrentPositionAsync({});
   const w = await
fetchWeather(loc.coords.latitude,
loc.coords.longitude, unit);
   const n = await fetchNews(category);
   const filteredNews =
filterNewsByWeather(w.current.weather[0].
```

```
main.toLowerCase(), n);
   setWeather(w);
   setNews(filteredNews);
   setLoading(false);
  })();
 }, [unit, category]);
 if (loading) return < ActivityIndicator
size="large" />;
 return (
  <ScrollView style={{ padding: 16 }}>
   <Text style={{ fontSize: 22, fontWeight:
Current: {weather.current.temp}°,
{weather.current.weather[0].main}
   </Text>
   <Text style={{ fontSize: 18, marginTop:</pre>
10 }}>5-Day Forecast:</Text>
   {weather.daily.slice(0, 5).map((day: any,
i: number) => (
```

```
<Text key={i}>Day {i + 1}:
{day.temp.day}° {day.weather[0].main}</
Text>
   ))}
   <Text style={{ fontSize: 18, marginTop:
20 }}>News:</Text>
   {news.map((item, i) => (
    <View key={i} style={{ marginVertical:</pre>
8 }}>
     <Text style={{ fontWeight: 'bold' }}
>{item.title}</Text>
     <Text>{item.description}</Text>
    </View>
   ))}
  </ScrollView>
SettingsScreen.tsx
import React from 'react';
import { View, Text, Picker } from 'react-
```

```
native';
import { useAppContext } from '../context/
AppContext';
export default function SettingsScreen() {
 const { unit, setUnit, category,
setCategory } = useAppContext();
 return (
  <View style={{ padding: 20 }}>
   <Text style={{ fontSize: 18 }}
>Temperature Unit:</Text>
   <Picker selectedValue={unit}
onValueChange={val => setUnit(val)}>
    <Picker.Item label="Celsius"
value="metric" />
    <Picker.Item label="Fahrenheit"
value="imperial" />
   </Picker>
   <Text style={{ fontSize: 18, marginTop:
```

```
20 }}>News Category:</Text>
   <Picker selectedValue={category}
onValueChange={val => setCategory(val)}>
    <Picker.Item label="General"
value="general" />
    <Picker.Item label="Sports"
value="sports" />
    <Picker.Item label="Technology"
value="technology" />
   </Picker>
  </View>
```