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**Reg N0: sp20-bse-012**

**MAD**

**Assignment :4**

**Code:**

**Project :prayer time at current location.**

import \* as Location from 'expo-location';

import { Marker } from 'react-native-maps';

import { getPrayerTimes } from './api'; // a function that fetches prayer times from the Al Adhan API

export default class PrayerTimesMap extends React.Component {

state = {

region: null, // the current region being displayed on the map

currentLocation: null, // the current location of the user

prayerTimes: null, // the prayer times for the current location

}

componentDidMount() {

this.getCurrentLocation();

}

getCurrentLocation = async () => {

// get the current location of the user

let { status } = await Location.requestPermissionsAsync();

if (status !== 'granted') {

// handle location permission not being granted

return;

}

let location = await Location.getCurrentPositionAsync({});

let currentLocation = {

latitude: location.coords.latitude,

longitude: location.coords.longitude,

}

// get the prayer times for the current location

let prayerTimes = await getPrayerTimes(currentLocation);

this.setState({

currentLocation,

prayerTimes,

region: {

...currentLocation,

latitudeDelta: 0.0922,

longitudeDelta: 0.0421,

},

});

}

render() {

let { region, currentLocation, prayerTimes } = this.state;

if (!region || !currentLocation || !prayerTimes) {

// render a loading spinner while we wait for the current location and prayer times to be fetched

return (

<ActivityIndicator />

);

}

return (

<MapView

style={{ flex: 1 }}

region={region}

>

<Marker

coordinate={currentLocation}

title="Current Location"

/>

{/\* add markers for each prayer time location \*/}

{Object.keys(prayerTimes).map((pt) => (

<Marker

key={pt}

coordinate={prayerTimes[pt]}

title={pt}

/>

))}

</MapView>

);

}

}