You are assigned to create a student detail management application in React Native that employs stack navigation. The app consists of two screens: the first screen gathers form details about the students, and the second screen displays these form entries upon submission.

* Explain how to setup a React Native Application
* Enumerate the components and form fields you would use to gather information such as student name, class, age, register number, and so on.
* Implement the idea of stack navigation to your application
* Discuss the specific hover animation you intend to apply to the submit button

Step - 1: Run npx create-expo-app studentapp

Step-2: Run cd studentapp

Step-3: Run npm install @react-navigation/native @react-navigation/native-stack in the terminal

Step-4: Since it is an expo managed project, run npx expo install react-native-screens react-native-safe-area-context in the terminal

**App.js**

import { NavigationContainer } from '@react-navigation/native';

import { createNativeStackNavigator } from '@react-navigation/native-stack';

import StudentFormScreen from './screens/StudentFormScreen';

import SubmissionScreen from './screens/SubmissionScreen';

const Stack = createNativeStackNavigator();

export default function App() {

return (

<NavigationContainer>

<Stack.Navigator initialRouteName="SForm">

<Stack.Screen name="StudentForm" component={StudentFormScreen} />

<Stack.Screen name="Submission" component={SubmissionScreen} />

</Stack.Navigator>

</NavigationContainer>

);

}

**StudentFormScreen.js**

import { useState } from 'react';

import { View, StyleSheet, TextInput, Button } from 'react-native';

import { useNavigation } from '@react-navigation/native';

export default function BookFormScreen() {

const navigation = useNavigation();

const [name, setName] = useState('');

const [sclass, setSclass] = useState('');

const [age, setAge] = useState('');

const handleSubmit = () => {

// Navigate to the SubmissionScreen and pass the form data as params

navigation.navigate('Submission', { name, sclass, age });

};

return (

<View style={styles.container}>

<View style={styles.subcontainer}>

<TextInput

value={name}

onChangeText={(text) => setName(text)}

placeholder="Enter student name"

style = {styles.input}

/>

<TextInput

value={sclass}

onChangeText={(text) => setSclass(text)}

placeholder="Enter class"

style = {styles.input}

/>

<TextInput

value={age}

onChangeText={(text) => setAge(text)}

placeholder="Enter age"

style = {styles.input}

/>

<Button

title="Submit"

onPress={handleSubmit}

style = {styles.btn}

/>

</View>

</View>

);

}

const styles = StyleSheet.create({

container: {

flex: 1,

backgroundColor: '#000',

alignItems: 'center',

justifyContent: 'center',

},

subcontainer:{

backgroundColor: 'white',

padding: 30,

borderRadius: 5,

},

input: {

padding: 20,

width: 250,

}

});

**SubmissionScreen.js**

import { View, Text, StyleSheet } from 'react-native';

import { useRoute } from '@react-navigation/native';

export default function SubmissionScreen() {

const route = useRoute();

const { name, sclass, age } = route.params;

return (

<View style={styles.container}>

<Text style={styles.display}>Submitted Student Details:</Text>

<Text style={styles.display}>Name: {name}</Text>

<Text style={styles.display}>Class: {sclass}</Text>

<Text style={styles.display}>Age: {age}</Text>

</View>

);

}

const styles = StyleSheet.create({

container: {

flex: 1,

backgroundColor: '#000',

alignItems: 'center',

justifyContent: 'center',

},

display:{

color: 'white',

}

});