

**ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC CÔNG NGHỆ THÔNG TIN
KHOA KHOA HỌC VÀ KĨ THUẬT THÔNG TIN**

---oOo---



**BÁO CÁO THỰC HÀNH 3:
NESTED NAVIGATION, LOCAL STORAGES
MÔN HỌC: CÔNG NGHỆ LẬP TRÌNH ĐA NỀN
TẢNG CHO ỨNG DỤNG DI ĐỘNG (IE307.Q12)**

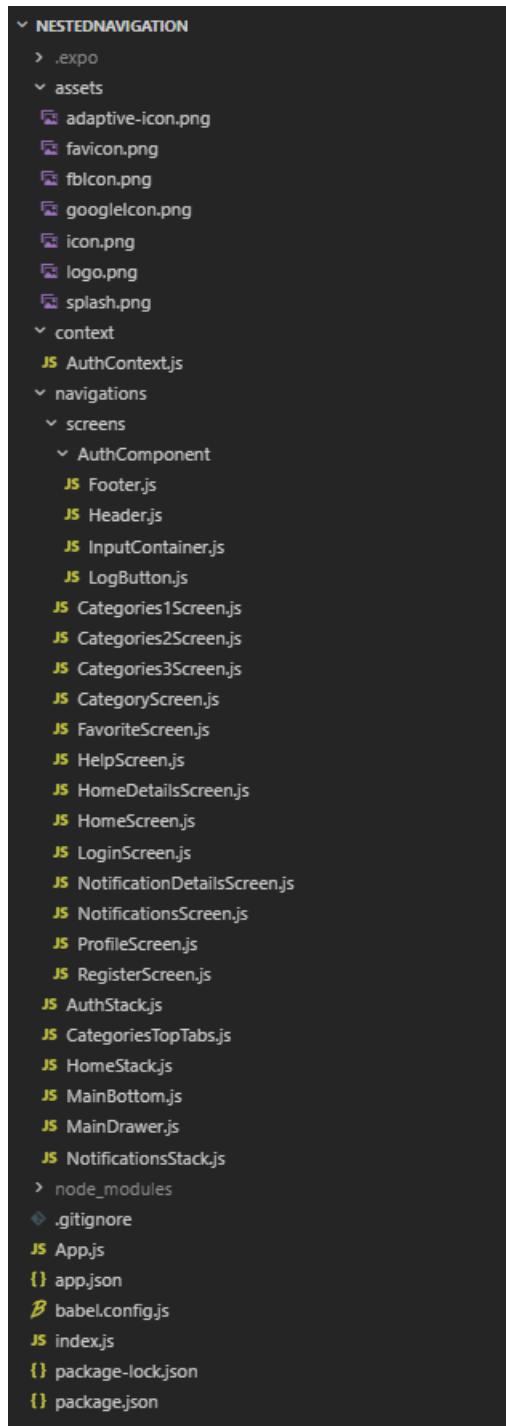
Sinh viên thực hiện: Võ Nhất Phương – 22521172

Giảng viên hướng dẫn: Phạm Nhật Duy

Thành phố Hồ Chí Minh, tháng 11 năm 2025

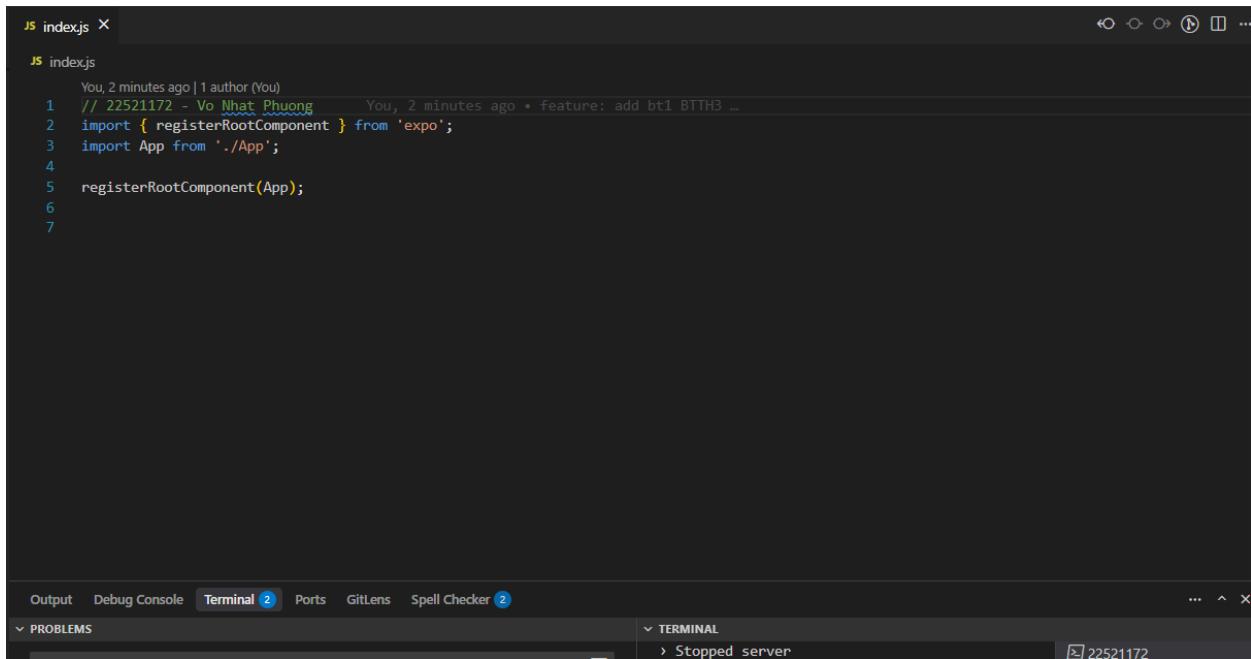
1. Bài 1: Nested Navigation

1.1. Cấu trúc các folders / files của dự án.



1.2. Nội dung file index.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

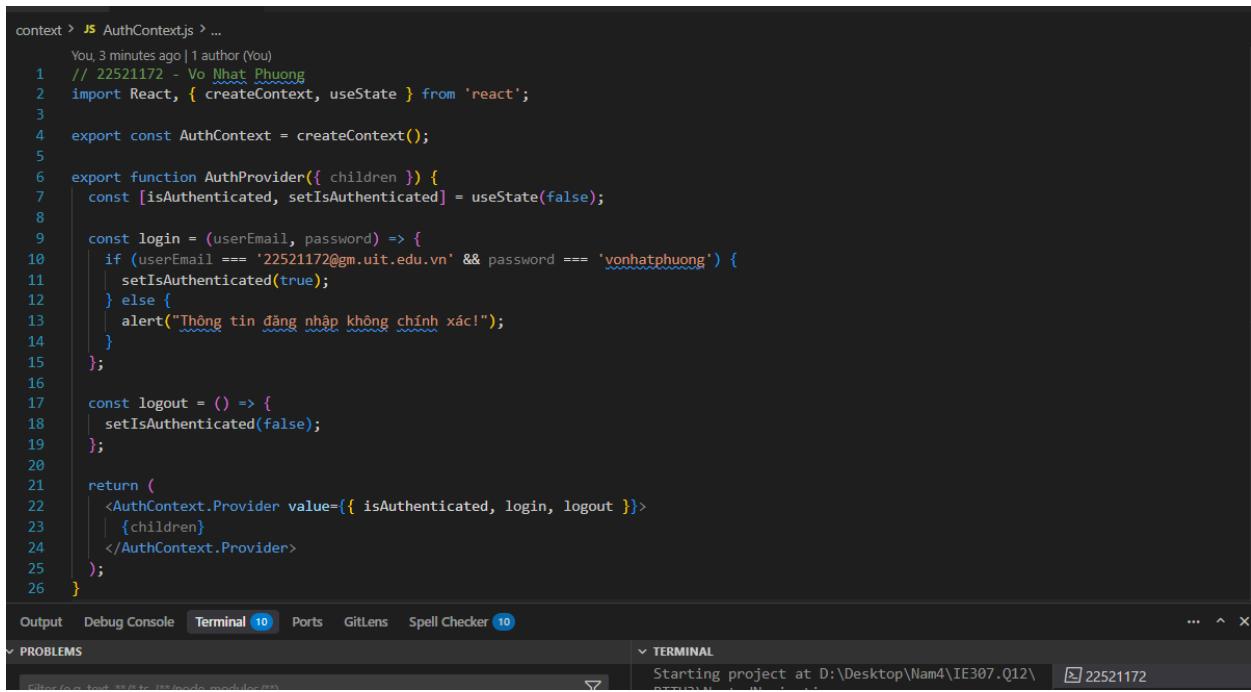


The screenshot shows a code editor window with the file 'index.js' open. The code is as follows:

```
You, 2 minutes ago | 1 author (You)
1 // 22521172 - Vo Nhat Phuong
2 import { registerRootComponent } from 'expo';
3 import App from './App';
4
5 registerRootComponent(App);
6
7
```

The editor interface includes tabs for Output, Debug Console, Terminal (with 2 notifications), Ports, GitLens, and Spell Checker. Below the tabs is a PROBLEMS panel. The terminal shows the message 'Stopped server'. A status bar at the bottom indicates the file is 22521172.

1.3. Nội dung file context/AuthContext.js



The screenshot shows a code editor window with the file 'AuthContext.js' open. The code is as follows:

```
context > JS AuthContext.js > ...
You, 3 minutes ago | 1 author (You)
1 // 22521172 - Vo Nhat Phuong
2 import React, { createContext, useState } from 'react';
3
4 export const AuthContext = createContext();
5
6 export function AuthProvider({ children }) {
7   const [isAuthenticated, setIsAuthenticated] = useState(false);
8
9   const login = (userEmail, password) => {
10     if (userEmail === '22521172@gm.uit.edu.vn' && password === 'vonhatphuong') {
11       setIsAuthenticated(true);
12     } else {
13       alert("Thông tin đăng nhập không chính xác!");
14     }
15   };
16
17   const logout = () => {
18     setIsAuthenticated(false);
19   };
20
21   return (
22     <AuthContext.Provider value={{ isAuthenticated, login, logout }}>
23       {children}
24     </AuthContext.Provider>
25   );
26 }
```

The editor interface includes tabs for Output, Debug Console, Terminal (with 10 notifications), Ports, GitLens, and Spell Checker. Below the tabs is a PROBLEMS panel. The terminal shows the message 'Starting project at D:\Desktop\Nam4\IE307.Q12\'. A status bar at the bottom indicates the file is 22521172.

1.4. Nội dung file navigations/screens/AuthComponent/Header.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with the following details:

- Code Editor:** The main area displays the `Header.js` file content. The code defines a `Header` component using React Native components like `View`, `Image`, and `Text`. It also uses a `StyleSheet` to define styles for the logo container, logo image, and title text.
- Terminal:** Below the code editor is a terminal window titled "TERMINAL". It shows the command "Starting project at D:\Desktop\Nam4\IE307.Q12\" followed by a timestamp "22521172".
- Bottom Bar:** The bottom bar includes tabs for Output, Debug Console, Terminal (with a count of 4), Ports, GitLens, and Spell Checker (with a count of 4). There are also icons for closing the terminal and other UI elements.

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

1.5. Nội dung file file navigations/screens/AuthComponent/Footer.js

The screenshot shows the VS Code interface with the Footer.js file open. The code defines a Footer component that returns a View containing two Text components with TouchableOpacity wraps. It uses StyleSheet.create to define styles for footer, footerText, and buttonText. The footer has a flexDirection of 'row', alignItems of 'center', and justifyContent of 'center'. The footerText has a fontSize of 16. The buttonText has a bold font weight and a blue color.

```
You, 4 minutes ago | 1 author (You)
1 import { StyleSheet, View, TouchableOpacity, Text } from 'react-native';
2 // 22521172 - Vo Nhat Phuong
3 function Footer({text1, text2, funct}){
4     return(
5         <View style={styles.footer}>
6             <Text style={styles.footerText}>{text1}</Text>
7             <TouchableOpacity onPress={funct}>
8                 <Text style={styles.buttonText}> {text2}</Text>
9             </TouchableOpacity>
10        </View>
11    )
12 }
13 export default Footer;
14 const styles = StyleSheet.create({
15     footer:{
16         flex: 1,
17         flexDirection: 'row',
18         alignItems: 'center',
19         justifyContent: 'center',
20     },
21     footerText:{
22         flex: 1,
23         fontSize: 16,
24     },
25     buttonText:{
26         flex: 1,
27         fontSize: 16,
28         fontWeight: 'bold',
29         color: 'blue'
30     }
31 })

```

1.6. Nội dung file file navigations/screens/AuthComponent/InputContainer.js

The screenshot shows the VS Code interface with the InputContainer.js file open. The code defines an InputContainer component that returns a View containing a TouchableWithoutFeedback component. Inside, there's a View with an icon and a TextInput component. The TextInput has a placeholder, value, onChangeText, secureTextEntry, and a style. The TouchableWithoutFeedback has an onPress handler.

```
You, 5 minutes ago | 1 author (You)
1 // 22521172 - Vo Nhat Phuong
2 import { StyleSheet, View, TextInput, TouchableWithoutFeedback, Keyboard } from 'react-native';
3 import Icon from 'react-native-vector-icons/FontAwesome';
4 function InputContainer({placeHolder, value, onChange, security, icon}){
5     return(
6         <TouchableWithoutFeedback onPress={Keyboard.dismiss}>
7             <View style={styles.inputContainer}>
8                 <View style={styles.icon}>
9                     <Icon name={icon} size={30} color='black'/>
10                </View>
11                <TextInput
12                    placeholder={placeHolder}
13                    value={value}
14                    onChangeText={onChange}
15                    secureTextEntry={security}
16                    style={styles.textInput} />
17            </View>
18        </TouchableWithoutFeedback>
19    );
20 }
21 export default InputContainer;

```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
24 // 22521172 - Vo Nhat Phuong
25 const styles = StyleSheet.create({
26   inputContainer:{
27     width: 300,
28     height: 50,
29     borderRadius: 10,
30     borderColor: 'gray',
31     borderWidth: 1,
32     paddingHorizontal: 10,
33     paddingVertical: 0,
34     margin: 10,
35     flexDirection: 'row',
36     alignItems: 'center',
37   },
38   icon:{
39     width:30,
40     height:30,
41     alignItems: 'center',
42     justifyContent: 'center',
43     marginRight: 10,
44   },
45   textInput: {
46     flex: 1,
47     padding: 0,
48     margin: 0,
49   }
50 })
```

Output Debug Console Terminal Ports GitLens Spell Checker ... ^ x

PROBLEMS TERMINAL [22521172 ReactNavigation]

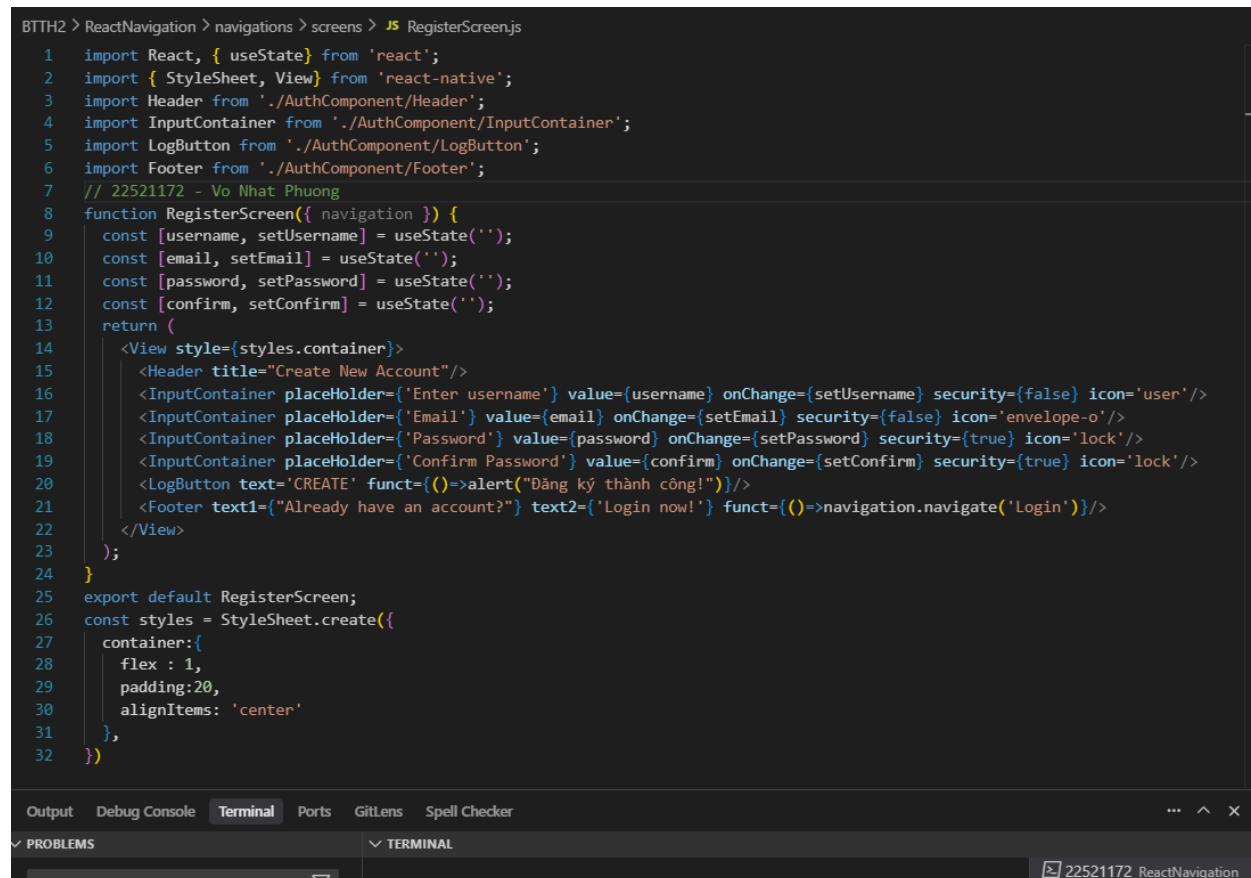
1.7. Nội dung file file navigations/screens/AuthComponent/LogButton.js

```
BTTH2 > ReactNavigation > navigations > screens > AuthComponent > LogButton.js
1 import { StyleSheet, Text, TouchableOpacity } from 'react-native';
2
3 function LogButton({funct, text}){
4   return(
5     <TouchableOpacity style={styles.buttonContainer} onPress={funct}>
6       <Text style={styles.textButton}>{text}</Text>
7     </TouchableOpacity>
8   )
9 }
10 // 22521172 - Vo Nhat Phuong
11 export default LogButton;
12 const styles = StyleSheet.create({
13   buttonContainer:{
14     width:300,
15     height: 60,
16     borderRadius: 15,
17     backgroundColor: 'orange',
18     justifyContent:'center',
19     alignItems: 'center',
20     margin: 10,
21   },
22   textButton:{
23     color: 'white',
24     fontSize: 20,
25   },
26 })
```

Output Debug Console Terminal Ports GitLens Spell Checker ... ^ x

PROBLEMS TERMINAL [22521172 ReactNavigation]

1.8. Nội dung file navigations/screens/RegisterScreen.js



```
BTTH2 > ReactNavigation > navigations > screens > JS RegisterScreen.js
  1 import React, { useState } from 'react';
  2 import { StyleSheet, View } from 'react-native';
  3 import Header from './AuthComponent/Header';
  4 import InputContainer from './AuthComponent/InputContainer';
  5 import LogButton from './AuthComponent/LogButton';
  6 import Footer from './AuthComponent/Footer';
  7 // 22521172 - Vo Nhat Phuong
  8 function RegisterScreen({ navigation }) {
  9   const [username, setUsername] = useState('');
 10   const [email, setEmail] = useState('');
 11   const [password, setPassword] = useState('');
 12   const [confirm, setConfirm] = useState('');
 13   return (
 14     <View style={styles.container}>
 15       <Header title="Create New Account"/>
 16       <InputContainer placeHolder={'Enter username'} value={username} onChange={setUsername} security={false} icon='user' />
 17       <InputContainer placeHolder={'Email'} value={email} onChange={setEmail} security={false} icon='envelope-o' />
 18       <InputContainer placeHolder={'Password'} value={password} onChange={setPassword} security={true} icon='lock' />
 19       <InputContainer placeHolder={'Confirm Password'} value={confirm} onChange={setConfirm} security={true} icon='lock' />
 20       <LogButton text='CREATE' funct={()=>alert("Đăng ký thành công!")} />
 21       <Footer text1="Already have an account?" text2="Login now!" funct={()=>navigation.navigate('Login')} />
 22     </View>
 23   );
 24 }
 25 export default RegisterScreen;
 26 const styles = StyleSheet.create({
 27   container: {
 28     flex: 1,
 29     padding: 20,
 30     alignItems: 'center'
 31   },
 32 })

```

Output Debug Console Terminal Ports GitLens Spell Checker ... ^ x

PROBLEMS TERMINAL 22521172 ReactNavigation

1.9. Nội dung file navigations/screens/LoginScreen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
navigations > screens > JS LoginScreen.js > ...
You, 6 minutes ago | 1 author (You)
1 import React, { useState, useContext } from 'react'; You, 6 minutes ago * feature: add bt1 BTTH3 ...
2 import { StyleSheet, View, TextInput, Button, Text, Image, TouchableOpacity, TouchableWithoutFeedback, Keyboard } from 'react-native';
3 import { AuthContext } from '../../context/AuthContext';
4 import Header from './AuthComponent/Header';
5 import InputContainer from './AuthComponent/InputContainer';
6 import LogButton from './AuthComponent/LogButton';
7 import Footer from './AuthComponent/Footer';
8 // 22521172 - Vo Nhat Phuong
9 function LoginScreen({ navigation }) {
10   const { login } = useContext(AuthContext);
11   const [email, setEmail] = useState('');
12   const [password, setPassword] = useState('');
13
14   return (
15     <View style={styles.container}>
16       <Header title="Welcome"/>
17       <InputContainer placeHolder="Email" value={email} onChange={setEmail} security={false} icon='envelope-o' />
18       <InputContainer placeHolder="Password" value={password} onChange={setPassword} security={true} icon='lock' />
19       <Text style={styles.forgot}>Forgot password?</Text>
20       <LogButton text="LOG IN" func={()=>login(email, password)} />
21       <View style={styles.otherOption}>
22         <Text style={styles.title}>Or login with</Text>
23         <View style={styles.iconRow}>
24           <Image style={styles.socialMediaIcon} source={require('../../assets/fbIcon.png')} />
25           <Image style={styles.socialMediaIcon} source={require('../../assets/googleIcon.png')} />
26         </View>
27       </View>
28       <Footer text1="Don't have an account?" text2="Sign up here!" funct={()=>navigation.navigate('Register')} />
29     </View>
30   );
31 }
32 export default LoginScreen;
```

Output Debug Console Terminal 10 Ports GitLens Spell Checker 10

PROBLEMS TERMINAL Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172

```
navigations > screens > JS LoginScreen.js > LoginScreen
33 // 22521172 - Vo Nhat Phuong
34 const styles = StyleSheet.create({
35   container: {
36     flex: 1,
37     padding: 20,
38     alignItems: 'center'
39   },
40   title: {
41     fontSize: 25,
42     fontWeight: 'bold',
43   },
44   forgot: {
45     width: '100%',
46     color: 'pink',
47     textAlign: 'right',
48     marginRight: 50,
49   },
50   otherOption: {
51     marginTop: 10,
52     width: '100%',
53     height: 150,
54     justifyContent: 'center',
55     alignItems: 'center'
56   },
57   iconRow: { flexDirection: 'row' },
58   socialMediaIcon: {
59     width: 50,
60     height: 50,
61     borderRadius: 50,
62     margin: 20,
63   },
64 })
```

Output Debug Console Terminal 12 Ports GitLens Spell Checker 12

PROBLEMS TERMINAL Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172

1.10. Nội dung file navigations/screens/HomeScreen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows the HomeScreen.js file in a code editor. The code defines a HomeScreen component that navigates to a details screen when a button is pressed. It uses StyleSheet.create to define styles for the container, text, and button.

```
navigations > screens > JS HomeScreen.js > ...
You, 1 second ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet, TouchableOpacity } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function HomeScreen({ navigation }) {
6   const navigateToDetails = () => {
7     const parent = navigation.getParent();
8     if (parent) {
9       parent.navigate('HomeDetails');
10    }
11  };
12
13  return (
14    <View style={styles.container}>
15      <Text style={styles.text}>Home Screen</Text>
16      <TouchableOpacity
17        style={styles.button}
18        onPress={navigateToDetails}
19      >
20        <Text style={styles.buttonText}>GO TO DETAILS</Text>
21      </TouchableOpacity>
22    </View>
23  );
24}
25
26 export default HomeScreen;
```

Output Debug Console Terminal 16 Ports GitLens Spell Checker 16

PROBLEMS TERMINAL Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172

The screenshot shows the HomeScreen.js file with the StyleSheet.create block removed and placed in a separate file named styles.js. The styles.js file contains the same styling rules as in the previous screenshot.

```
navigations > screens > JS HomeScreen.js > ...
28 // 22521172 - Vo Nhat Phuong
29 const styles = StyleSheet.create({
30   container: {
31     flex: 1,
32     justifyContent: 'center',
33     alignItems: 'center',
34   },
35   text: {
36     fontSize: 18,
37     color: '#000',
38     marginBottom: 20,
39   },
40   button: {
41     backgroundColor: '#007AFF',
42     paddingHorizontal: 30,
43     paddingVertical: 15,
44     borderRadius: 8,
45   },
46   buttonText: {
47     color: 'white',
48     fontSize: 16,
49     fontWeight: 'bold',
50   },
51 });
52
```

Output Debug Console Terminal 16 Ports GitLens Spell Checker 16

PROBLEMS TERMINAL Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172

1.11. Nội dung file navigations/screens/HomeDetailsScreen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with two tabs: 'HomeDetailsScreen.js' and 'styles'. The 'HomeDetailsScreen.js' tab contains the following code:

```
navigations > screens > JS HomeDetailsScreen.js > styles > text
You, 8 minutes ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function HomeDetailsScreen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Home Details Screen</Text>
9     </View>
10  );
11}
12
13 export default HomeDetailsScreen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,      You, 8 minutes ago * feature: add btl BTTH3
23     color: '#666',
24   },
25 });
26
```

The 'styles' tab contains the following code:

```
You, 9 minutes ago | 1 author (You)
1 import React from 'react';      You, 9 minutes ago * feature: add btl BTTH3 ...
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function CategoryScreen() {
6   return (
7     <View style={styles.container}>
8       <Text>Category Screen</Text>
9     </View>
10  );
11}
12
13 export default CategoryScreen;
14 const styles=StyleSheet.create({
15   container:{
16     flex:1,
17     justifyContent: 'center',
18     alignItems: 'center',
19   }
20 })
```

The bottom of the screen shows the terminal output: "Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172".

1.12. Nội dung file navigations/screens/CategoriesScreen.js

The screenshot shows a code editor interface with two tabs: 'CategoryScreen.js' and 'styles'. The 'CategoryScreen.js' tab contains the following code:

```
navigations > screens > JS CategoryScreen.js > ...
You, 9 minutes ago | 1 author (You)
1 import React from 'react';      You, 9 minutes ago * feature: add btl BTTH3 ...
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function CategoryScreen() {
6   return (
7     <View style={styles.container}>
8       <Text>Category Screen</Text>
9     </View>
10  );
11}
12
13 export default CategoryScreen;
14 const styles=StyleSheet.create({
15   container:{
16     flex:1,
17     justifyContent: 'center',
18     alignItems: 'center',
19   }
20 })
```

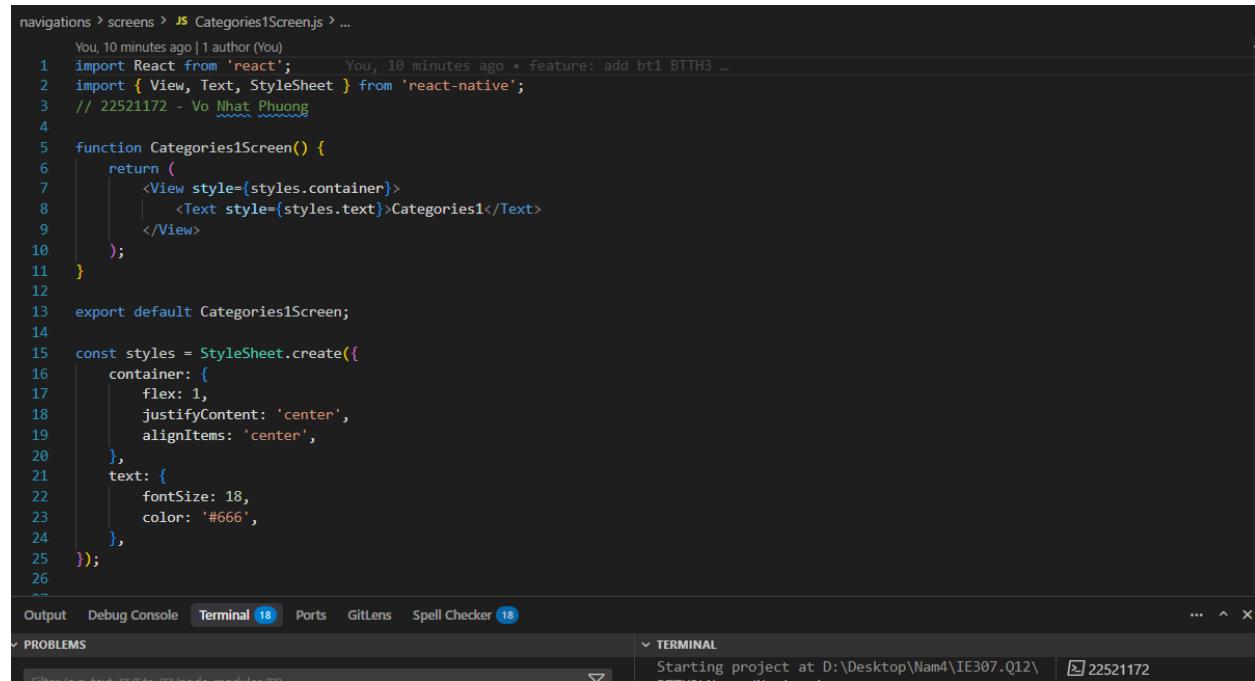
The 'styles' tab contains the following code:

```
You, 9 minutes ago | 1 author (You)
1 import React from 'react';      You, 9 minutes ago * feature: add btl BTTH3 ...
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function CategoryScreen() {
6   return (
7     <View style={styles.container}>
8       <Text>Category Screen</Text>
9     </View>
10  );
11}
12
13 export default CategoryScreen;
14 const styles=StyleSheet.create({
15   container:{
16     flex:1,
17     justifyContent: 'center',
18     alignItems: 'center',
19   }
20 })
```

The bottom of the screen shows the terminal output: "Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172".

1.13. Nội dung file navigations/screens/Categories1Screen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



```
navigations > screens > JS Categories1Screen.js > ...
You, 10 minutes ago | 1 author (You)
1 import React from 'react'; You, 10 minutes ago * feature: add bt1 BTTH3 ...
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function Categories1Screen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Categories1</Text>
9     </View>
10  );
11}
12
13 export default Categories1Screen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,
23     color: '#666',
24   },
25 });
26
```

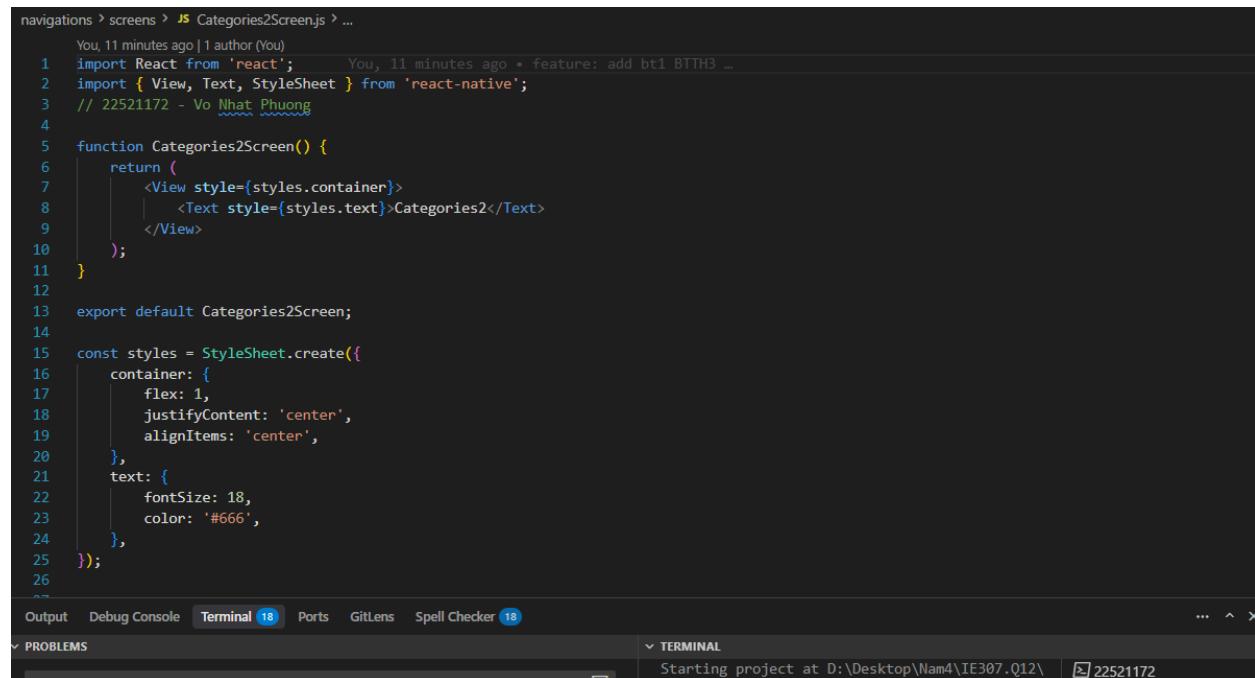
Output Debug Console Terminal 18 Ports GitLens Spell Checker 18

PROBLEMS

TERMINAL

Starting project at D:\Desktop\Nam4\IE307.Q12\22521172

1.14. Nội dung file navigations/screens/Categories2Screen.js



```
navigations > screens > JS Categories2Screen.js > ...
You, 11 minutes ago | 1 author (You)
1 import React from 'react'; You, 11 minutes ago * feature: add bt1 BTTH3 ...
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function Categories2Screen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Categories2</Text>
9     </View>
10  );
11}
12
13 export default Categories2Screen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,
23     color: '#666',
24   },
25 });
26
```

Output Debug Console Terminal 18 Ports GitLens Spell Checker 18

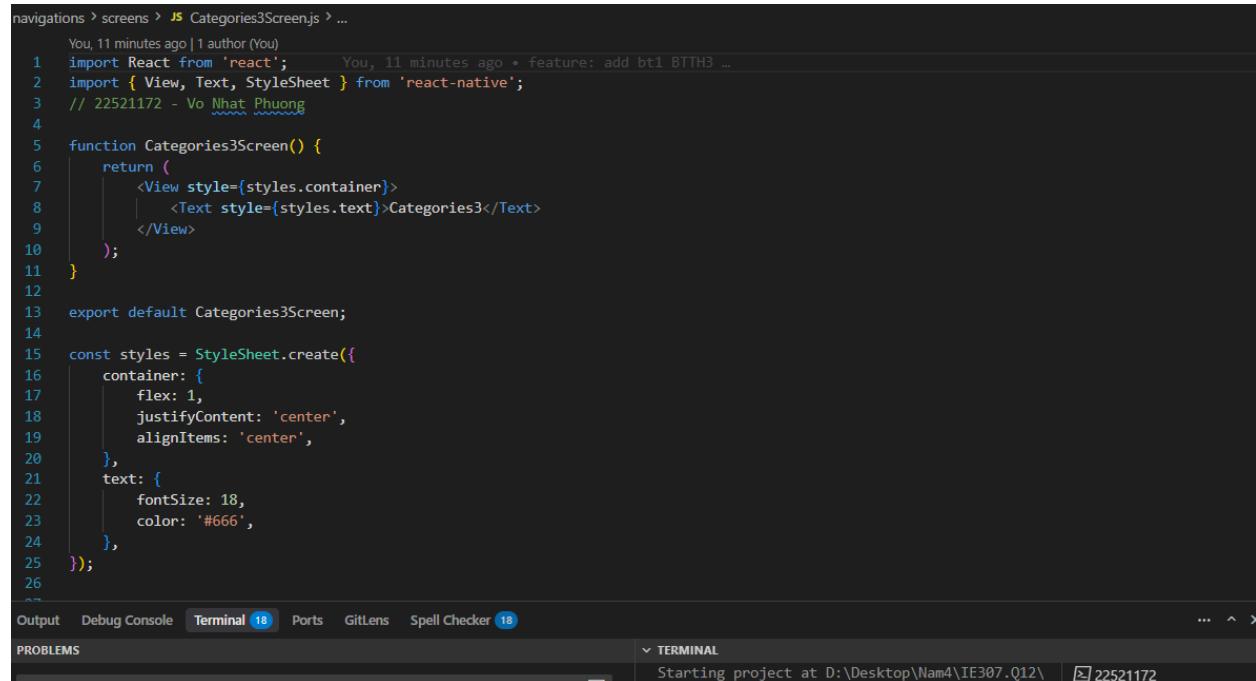
PROBLEMS

TERMINAL

Starting project at D:\Desktop\Nam4\IE307.Q12\22521172

1.15. Nội dung file navigations/screens/Categories3Screen.js

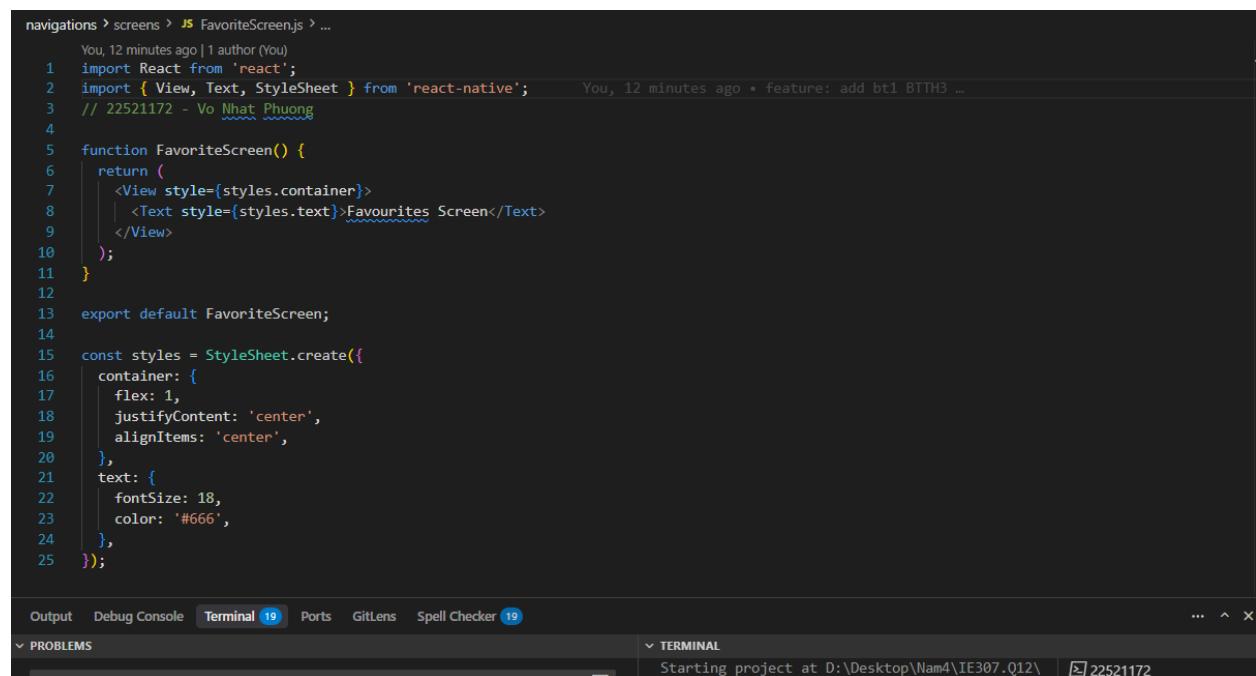
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



```
navigations > screens > JS Categories3Screen.js > ...
You, 11 minutes ago | 1 author (You)
1 import React from 'react';          You, 11 minutes ago * feature: add bt1 BTTH3 ...
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function Categories3Screen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Categories3</Text>
9     </View>
10  );
11 }
12
13 export default Categories3Screen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,
23     color: '#666',
24   },
25 });
26
```

Output Debug Console Terminal 18 Ports GitLens Spell Checker 18 PROBLEMS TERMINAL Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172

1.16. Nội dung file navigations/screens/FavoriteScreen.js



```
navigations > screens > JS FavoriteScreen.js > ...
You, 12 minutes ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function FavoriteScreen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Favourites Screen</Text>
9     </View>
10  );
11 }
12
13 export default FavoriteScreen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,
23     color: '#666',
24   },
25 });
```

Output Debug Console Terminal 19 Ports GitLens Spell Checker 19 PROBLEMS TERMINAL Starting project at D:\Desktop\Nam4\IE307.Q12\ 22521172

1.17. Nội dung file navigations/screens/ProfileScreen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

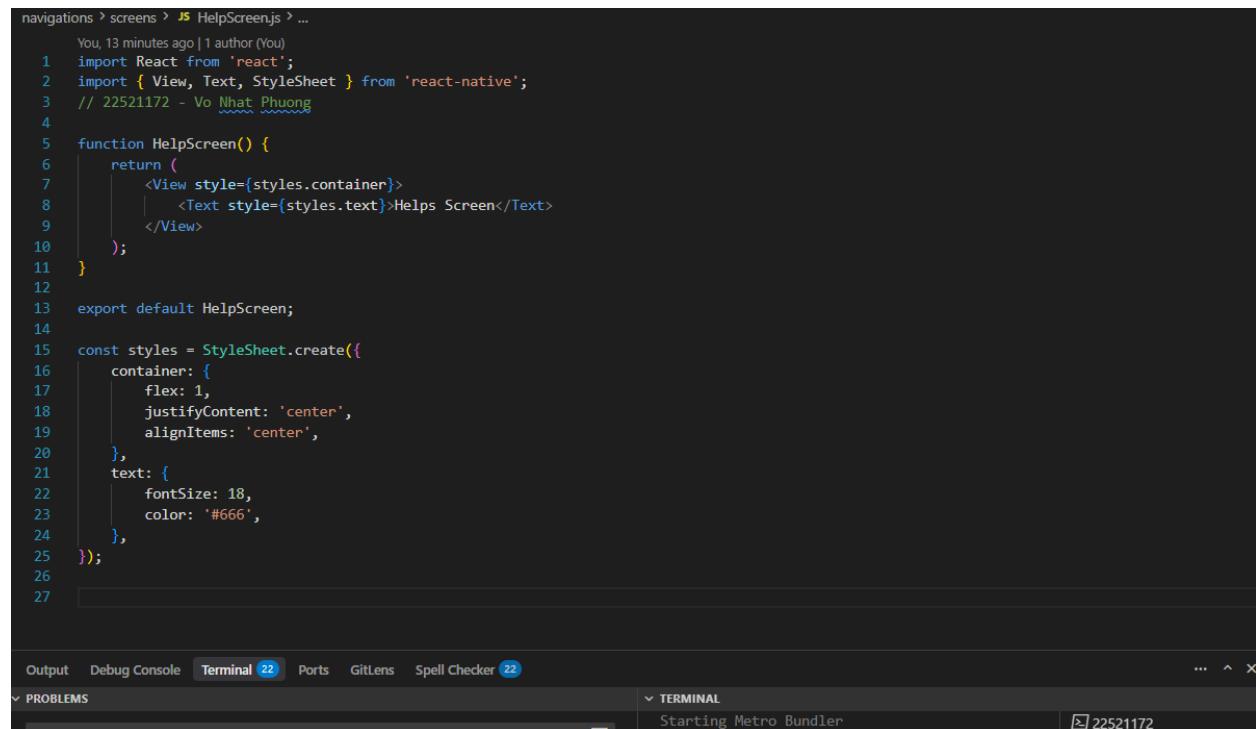
The screenshot shows a code editor interface with two tabs open:

- ProfileScreen.js**:
A component named `ProfileScreen` that displays a "Profile Screen" text and a "LOG OUT" button. It uses `useContext` to get the `AuthContext`. The code includes a comment `// 22521172 - Vo Nhat Phuong` and imports from `react`, `react-native`, and `./context/AuthContext`.
- HelpScreen.js**:
A component named `HelpScreen` that defines a `StyleSheet` object named `styles`. This object contains styles for a `container` (flex: 1, justifyContent: 'center', alignItems: 'center'), a `text` (fontSize: 18, color: '#666', marginBottom: 20), a `button` (backgroundColor: '#007AFF', paddingHorizontal: 30, paddingVertical: 15, borderRadius: 8), and a `buttonText` (color: 'white', fontSize: 16, fontWeight: 'bold'). The code includes a comment `// 22521172 - Vo Nhat Phuong` and imports from `react`, `react-native`, and `./context/AuthContext`.

The interface includes a top bar with tabs for Output, Debug Console, Terminal (18), Ports, GitLens, and Spell Checker (18). Below the tabs are two terminal panes labeled PROBLEMS and TERMINAL, both showing the message "Starting Metro Bundler". A status bar at the bottom shows the file path "C:\Users\vo_nhatphuong\Documents\ReactNative\ReactNative\app\src\main\java\com\reactnativeboilerplate\HelpScreen.java" and the number 22521172.

1.18. Nội dung file navigations/screens/HelpScreen.js

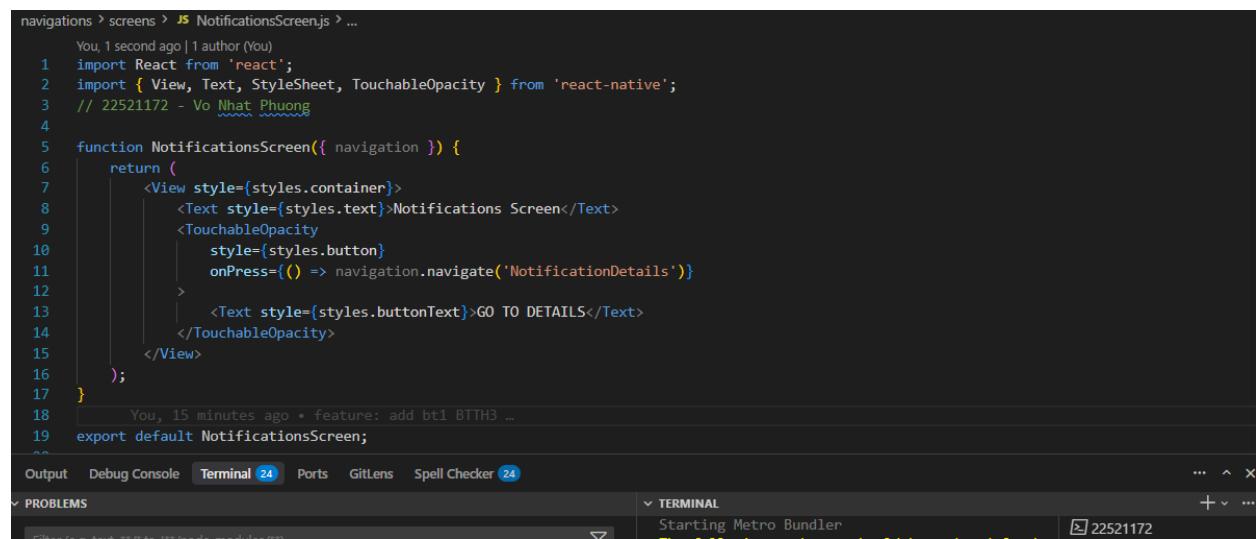
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



```
navigations > screens > JS HelpScreen.js > ...
You, 13 minutes ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function HelpScreen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Helps Screen</Text>
9     </View>
10  );
11}
12
13 export default HelpScreen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,
23     color: '#666',
24   },
25 });
26
27
```

Output Debug Console Terminal 22 Ports GitLens Spell Checker 22 PROBLEMS TERMINAL Starting Metro Bundler 22521172

1.19. Nội dung file navigations/screens/NotificationsScreen.js



```
navigations > screens > JS NotificationsScreen.js > ...
You, 1 second ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet, TouchableOpacity } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function NotificationsScreen({ navigation }) {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Notifications Screen</Text>
9       <TouchableOpacity
10         style={styles.button}
11         onPress={() => navigation.navigate('NotificationDetails')}
12       >
13         <Text style={styles.buttonText}>GO TO DETAILS</Text>
14       </TouchableOpacity>
15     </View>
16   );
17 }
18 You, 15 minutes ago * feature: add bt1 BTTH3 ...
19 export default NotificationsScreen;
```

Output Debug Console Terminal 24 Ports GitLens Spell Checker 24 PROBLEMS TERMINAL Starting Metro Bundler 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor with a dark theme. The file being edited is a CSS-like style sheet. It defines several components: a container view with flex: 1, justifyContent: 'center', and alignItems: 'center'; a text component with a font size of 18px, color #666, and a margin bottom of 20px; a button component with a background color of #007AFF, padding of 30x15 pixels, and a border radius of 8px; and a buttonText component with white text, a font size of 16px, and bold weight. The code is annotated with comments indicating it was written by Vo Nhat Phuong.

```
21 // 22521172 - Vo Nhat Phuong
22 const styles = StyleSheet.create({
23   container: {
24     flex: 1,
25     justifyContent: 'center',
26     alignItems: 'center',
27   },
28   text: {
29     fontSize: 18,
30     color: '#666',
31     marginBottom: 20,
32   },
33   button: {
34     backgroundColor: '#007AFF',
35     paddingHorizontal: 30,
36     paddingVertical: 15,
37     borderRadius: 8,
38   },
39   buttonText: {
40     color: 'white',
41     fontSize: 16,
42     fontWeight: 'bold',
43   },
44 });
45
46
```

Output Debug Console Terminal 24 Ports GitLens Spell Checker 24 PROBLEMS TERMINAL Starting Metro Bundler 22521172

1.20. Nội dung file navigations/screens/NotificationDetailsScreen.js

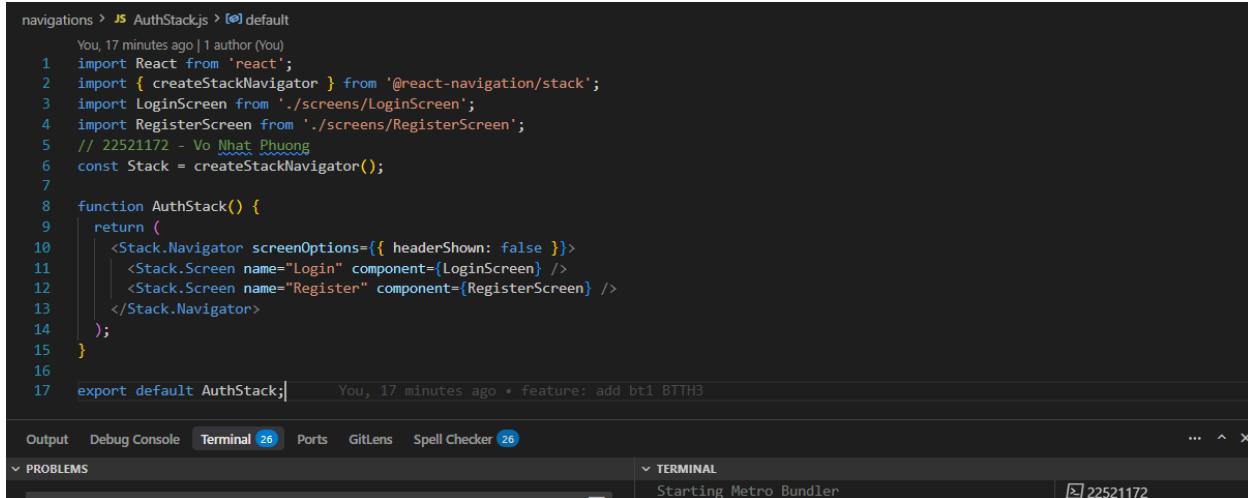
The screenshot shows a code editor with a dark theme. The file is named NotificationDetailsScreen.js. It contains a single function NotificationDetailsScreen() which returns a View component with a central Text component displaying "Notification Details Screen". Below this function is a StyleSheet.create block defining a container view with flex: 1, justifyContent: 'center', and alignItems: 'center'; a text component with a font size of 18px, color #666, and a margin bottom of 20px; and a button component with a background color of #007AFF, padding of 30x15 pixels, and a border radius of 8px. The code is annotated with comments indicating it was written by Vo Nhat Phuong.

```
navigations > screens > JS NotificationDetailsScreen.js > ...
You, 16 minutes ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong
4
5 function NotificationDetailsScreen() {
6   return (
7     <View style={styles.container}>
8       <Text style={styles.text}>Notification Details Screen</Text>
9     </View>
10   );
11 }
12
13 export default NotificationDetailsScreen;
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     justifyContent: 'center',
19     alignItems: 'center',
20   },
21   text: {
22     fontSize: 18,
23     color: '#666',
24   },
25 });
You, 16 minutes ago * feature: add b1 BTTH3
26
27
```

Output Debug Console Terminal 26 Ports GitLens Spell Checker 26 PROBLEMS TERMINAL Starting Metro Bundler 22521172

1.21. Nội dung file navigations/AuthStack.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

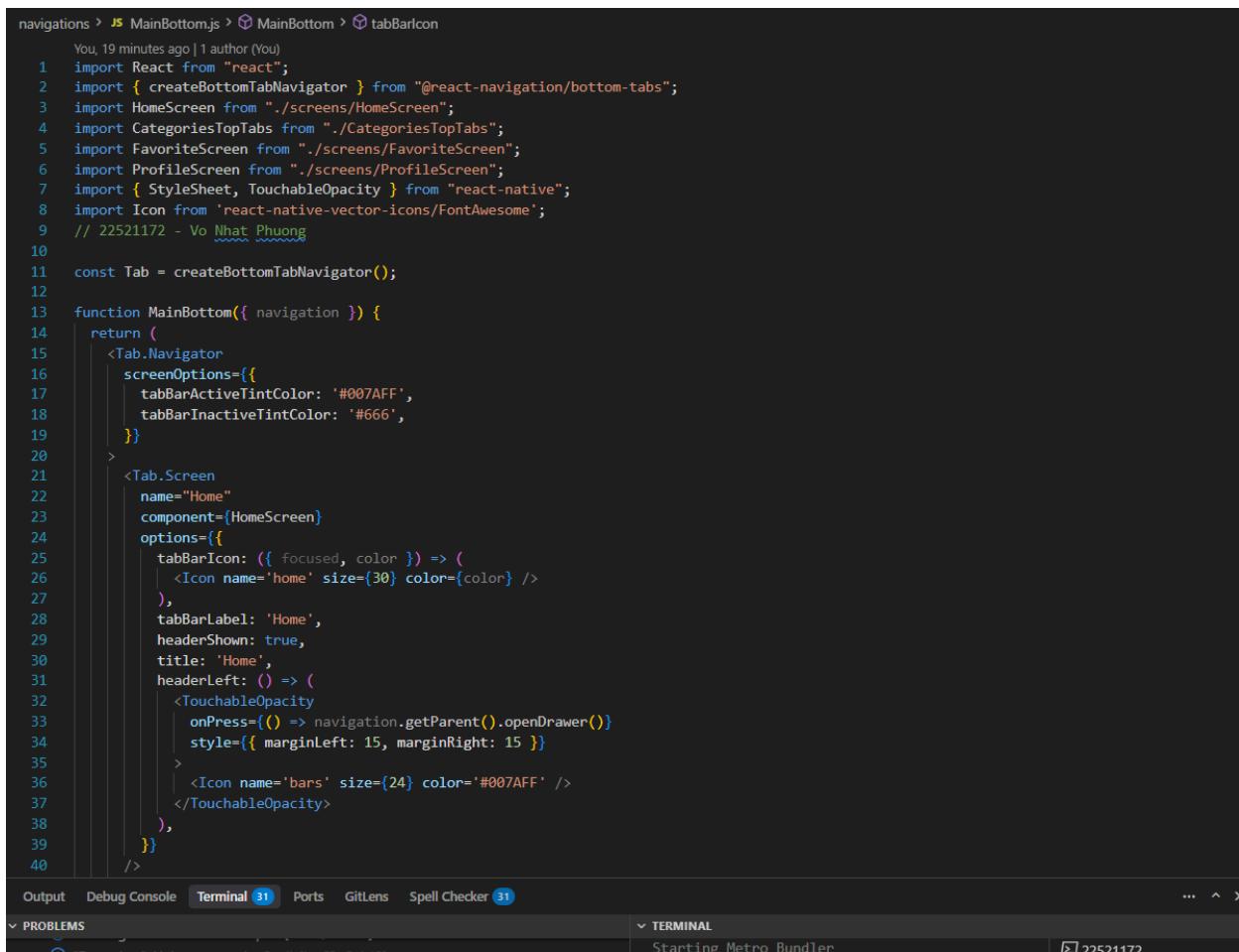


```
navigations > JS AuthStack.js > default
You, 17 minutes ago | 1 author (You)
1 import React from 'react';
2 import { createStackNavigator } from '@react-navigation/stack';
3 import LoginScreen from './screens/LoginScreen';
4 import RegisterScreen from './screens/RegisterScreen';
5 // 22521172 - Vo Nhat Phuong
6 const Stack = createStackNavigator();
7
8 function AuthStack() {
9   return (
10     <Stack.Navigator screenOptions={{ headerShown: false }}>
11       <Stack.Screen name="Login" component={LoginScreen} />
12       <Stack.Screen name="Register" component={RegisterScreen} />
13     </Stack.Navigator>
14   );
15 }
16
17 export default AuthStack; You, 17 minutes ago * feature: add bt1 BTTH3
```

Output Debug Console Terminal 26 Ports GitLens Spell Checker 26

PROBLEMS TERMINAL Starting Metro Bundler 22521172

1.22. Nội dung file navigations/MainBottom.js



```
navigations > JS MainBottom.js > MainBottom > tabBarIcon
You, 19 minutes ago | 1 author (You)
1 import React from "react";
2 import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
3 import HomeScreen from "./screens/HomeScreen";
4 import CategoriesTopTabs from "./CategoriesTopTabs";
5 import FavoriteScreen from "./screens/FavoriteScreen";
6 import ProfileScreen from "./screens/ProfileScreen";
7 import { StyleSheet, TouchableOpacity } from "react-native";
8 import Icon from 'react-native-vector-icons/FontAwesome';
9 // 22521172 - Vo Nhat Phuong
10
11 const Tab = createBottomTabNavigator();
12
13 function MainBottom({ navigation }) {
14   return (
15     <Tab.Navigator
16       screenOptions={{
17         tabBarActiveTintColor: '#007AFF',
18         tabBarInactiveTintColor: '#666',
19       }}
20     >
21       <Tab.Screen
22         name="Home"
23         component={HomeScreen}
24         options={{
25           tabBarIcon: ({ focused, color }) => (
26             <Icon name='home' size={30} color={color} />
27           ),
28           tabBarLabel: 'Home',
29           headerShown: true,
30           title: 'Home',
31           headerLeft: () => (
32             <TouchableOpacity
33               onPress={() => navigation.getParent().openDrawer()}
34               style={{ marginLeft: 15, marginRight: 15 }}
35             >
36               <Icon name='bars' size={24} color="#007AFF" />
37             </TouchableOpacity>
38           ),
39         }}
40       />
41     
```

Output Debug Console Terminal 31 Ports GitLens Spell Checker 31

PROBLEMS TERMINAL Starting Metro Bundler 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with two tabs open:

- MainBottom.js:** This tab is currently active. The code defines a `Tab.Navigator` component with three screens: "Category", "Favorite", and "Profile". Each screen has its own tab bar icon, label, header show status, and title. The "Category" screen uses an `Icon name='th-large'`, "Favorite" uses `Icon name='heart'`, and "Profile" uses `Icon name='user'`. The "Category" screen also includes a `tabBarBadge: 1`.
- CategoriesTopTabs.js:** This tab is visible below the first one. It contains a portion of the file where a `StyleSheet.create` function is defined, returning a style object with an `icon` property that sets width, height, and margin values.

At the bottom of the interface, there are several toolbars and panels:

- Output, Debug Console, Terminal (with 31 notifications), Ports, GitLens, Spell Checker (with 31 notifications).
- PROBLEMS panel: Shows an error message: "Unknown word - Could not find 'Col' at [Line 81, Col 10]."
- TERMINAL panel: Shows the command "Starting Metro Bundler".
- A status bar at the bottom right displays the identifier "22521172".

1.23. Nội dung file navigations/ CategoriesTopTabs.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
navigations > JS CategoriesTopTabs.js > CategoriesTopTabs
You, 25 minutes ago | 1 author (You)
1 import React from 'react';
2 import { createMaterialTopTabNavigator } from '@react-navigation/material-top-tabs';
3 import Categories1Screen from './screens/Categories1Screen';
4 import Categories2Screen from './screens/Categories2Screen';
5 import Categories3Screen from './screens/Categories3Screen';
6 // 22521172 - Vo Nhat Phuong
7 const Tab = createMaterialTopTabNavigator();
8 function CategoriesTopTabs() {
9     return (
10         <Tab.Navigator
11             screenOptions={({
12                 tabBarActiveTintColor: '#007AFF',
13                 tabBarInactiveTintColor: '#666',
14                 tabBarIndicatorStyle: {
15                     backgroundColor: '#007AFF',
16                 },
17                 tabBarLabelStyle: {
18                     fontWeight: 'bold',
19                     fontSize: 12,
20                 },
21             })}
22     >
23         <Tab.Screen
24             name="Categories1"
25             component={Categories1Screen}
26             options={{ title: 'CATEGORIES1' }}
27         />
28         <Tab.Screen
29             name="Categories2"
30             component={Categories2Screen}
31             options={{ title: 'CATEGORIES2' }}
32         />
33         <Tab.Screen
34             name="Categories3"
35             component={Categories3Screen}
36             options={{ title: 'CATEGORIES3' }}
37         />
38     </Tab.Navigator>
39 );
40 }
41 You, 25 minutes ago * feature: add bt1 BTTH3 ...
42 export default CategoriesTopTabs;
```

1.24. Nội dung file navigations/ MainDrawer.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with a dark theme. The main area displays the `MainDrawer.js` file, which contains code for a React Native drawer navigation component. The code includes imports for React, createDrawerNavigator, View, Text, StyleSheet, TouchableOpacity, Icon, HomeStack, NotificationsStack, and HelpScreen. It defines a `Drawer` constant using `createDrawerNavigator`. The `CustomDrawerContent` function retrieves the active route name from the navigation state or the current navigation state. The returned component is a `View` containing a `Text` element with the value "Menu". Below the code editor is a terminal window showing the command "Starting Metro Bundler". The bottom of the screen features a navigation bar with tabs for Output, Debug Console, Terminal (28), Ports, GitLens, and Spell Checker (28). A sidebar on the left shows a PROBLEMS section with a single entry: "Unknown word 'Phuong'".

```
navigations > JS MainDrawer.js > CustomDrawerContent
You, 32 minutes ago | 1 author (You)
1 import React from 'react';
2 import { createDrawerNavigator } from '@react-navigation/drawer';
3 import { View, Text, StyleSheet, TouchableOpacity } from 'react-native';
4 import Icon from 'react-native-vector-icons/FontAwesome';
5 import HomeStack from './HomeStack';
6 import NotificationsStack from './NotificationsStack';
7 import HelpScreen from './screens/HelpScreen';
8 // 22521172 - Vo Nhat Phuong
9
10 const Drawer = createDrawerNavigator();
11
12 function CustomDrawerContent({ navigation, state }) {
13     const getActiveRouteName = () => {
14         const route = state.routes[state.index];
15         if (route.state) {
16             return getActiveRouteNameFromState(route.state);
17         }
18         return route.name;
19     };
20
21     const getActiveRouteNameFromState = (navState) => {
22         if (!navState) {
23             return null;
24         }
25         const route = navState.routes[navState.index];
26         if (route.state) {
27             return getActiveRouteNameFromState(route.state);
28         }
29         return route.name;
30     };
31
32     const activeRoute = getActiveRouteName();
33
34     return (
35         <View style={styles.drawerContainer}>
36             <View style={styles.drawerHeader}>
37                 <Text style={styles.drawerHeaderText}>Menu</Text>
38             </View>
39             <TouchableOpacity
40                 ...
41             >
42                 ...
43             </TouchableOpacity>
44         </View>
45     );
46 }
47
48 const Home = createBottomTabNavigator();
49
50 function App() {
51     return (
52         <NavigationContainer>
53             <TabBarNavigation>
54                 <HomeTab />
55                 <NotificationsTab />
56                 <HelpTab />
57             </TabBarNavigation>
58             <DrawerNavigation>
59                 <CustomDrawerContent />
60             </DrawerNavigation>
61         </NavigationContainer>
62     );
63 }
64
65 export default App;
```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

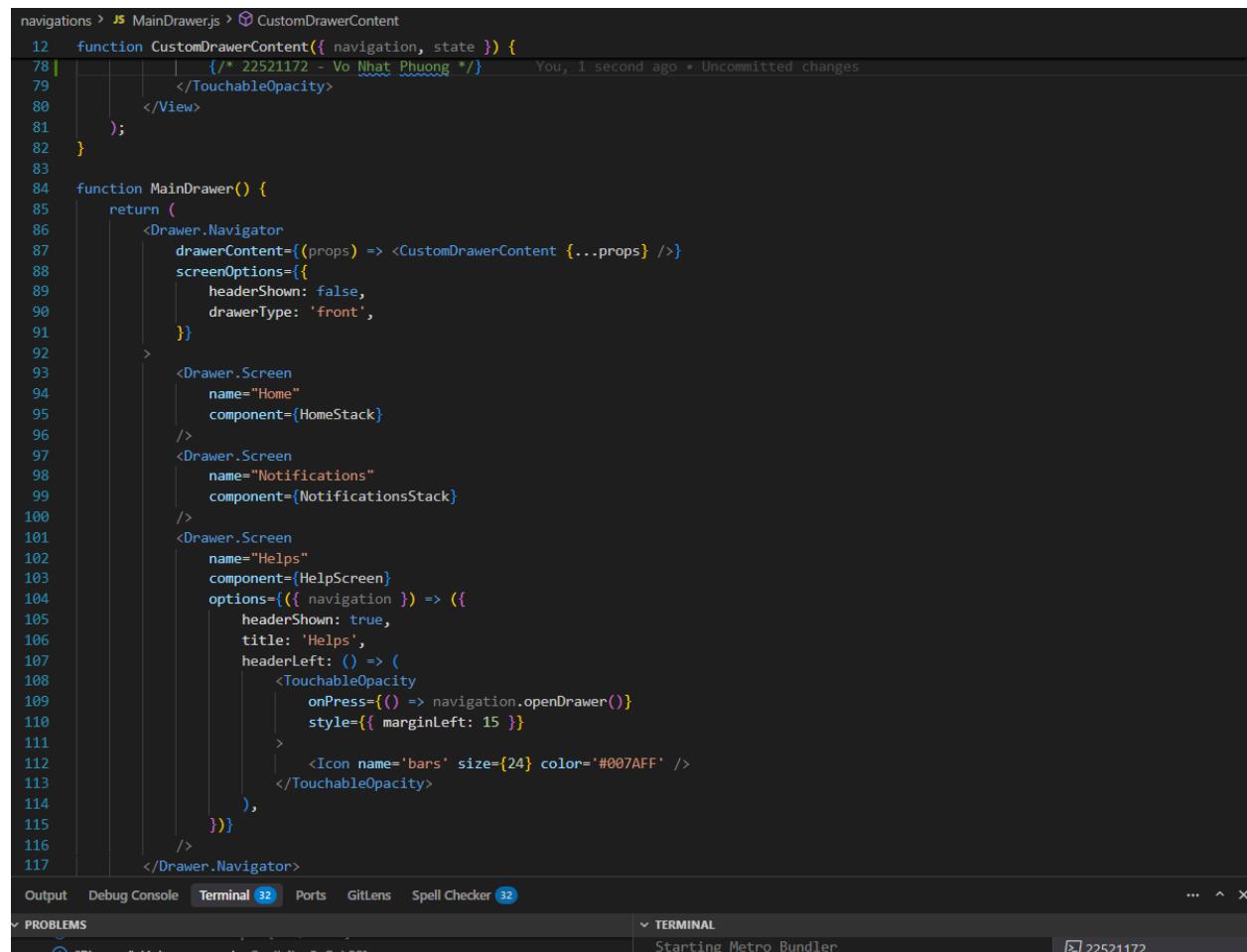
```
navigations > JS MainDrawer.js > CustomDrawerContent
12  function CustomDrawerContent({ navigation, state }) {
39    <TouchableOpacity
40      // 22521172 - Vo Nhat Phuong
41      style={[
42        You, 32 minutes ago * feature: add bt1 BTTH3 ...
43        styles.drawerItem,
44        activeRoute === 'Home' && styles.drawerItemActive
45      ]}
46      onPress={() => navigation.navigate('Home')}
47    >
48      <Icon name='home' size={24} color={activeRoute === 'Home' ? '#007AFF' : '#666'} style={styles.drawerIcon} />
49      <Text style={[
50        styles.drawerItemText,
51        activeRoute === 'Home' && styles.drawerItemTextActive
52      ]}>Home</Text>
53    </TouchableOpacity>
54    <TouchableOpacity
55      style={[
56        styles.drawerItem,
57        activeRoute === 'Notifications' && styles.drawerItemActive
58      ]}
59      onPress={() => navigation.navigate('Notifications')}
60    >
61      <Icon name='bell' size={24} color={activeRoute === 'Notifications' ? '#007AFF' : '#666'} style={styles.drawerIcon} />
62      <Text style={[
63        styles.drawerItemText,
64        activeRoute === 'Notifications' && styles.drawerItemTextActive
65      ]}>Notifications</Text>
66    </TouchableOpacity>
67    <TouchableOpacity
68      style={[
69        styles.drawerItem,
70        activeRoute === 'Helps' && styles.drawerItemActive
71      ]}
72      onPress={() => navigation.navigate('Helps')}
73    >
74      <Icon name='question-circle' size={24} color={activeRoute === 'Helps' ? '#007AFF' : '#666'} style={styles.drawerIcon} />
75      <Text style={[
76        styles.drawerItemText,
77        activeRoute === 'Helps' && styles.drawerItemTextActive
78      ]}>Helps</Text>
79    </TouchableOpacity>
80  >
```

Output Debug Console Terminal 30 Ports GitLens Spell Checker 30 ... ^ x

PROBLEMS 22521172

TERMINAL Starting Metro Bundler

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



```
navigations > js MainDrawer.js > CustomDrawerContent
12   function CustomDrawerContent({ navigation, state }) {
78 |     |   /* 22521172 - Vo Nhat Phuong */ You, 1 second ago * Uncommitted changes
79 |     |   </TouchableOpacity>
80 |     |   </View>
81 |   );
82 }
83
84 function MainDrawer() {
85   return (
86     <Drawer.Navigator
87       drawerContent={(props) => <CustomDrawerContent {...props} />}
88       screenOptions={{
89         headerShown: false,
90         drawerType: 'front',
91       }}
92     >
93       <Drawer.Screen
94         name="Home"
95         component={HomeStack}
96       />
97       <Drawer.Screen
98         name="Notifications"
99         component={NotificationsStack}
100      />
101      <Drawer.Screen
102        name="Helps"
103        component={HelpScreen}
104        options={({ navigation }) => ({
105          headerShown: true,
106          title: 'Helps',
107          headerLeft: () => (
108            <TouchableOpacity
109              onPress={() => navigation.openDrawer()}
110              style={{ marginLeft: 15 }}
111            >
112              <Icon name='bars' size={24} color='#007AFF' />
113            </TouchableOpacity>
114          ),
115        })}
116      />
117    </Drawer.Navigator>
118  )
119}

Output Debug Console Terminal 32 Ports GitLens Spell Checker 32 ... ^ x
PROBLEMS v TERMINAL
① "Phuong": Unknown word. cSpell [Ln 8, Col 23] Starting Metro Bundler 22521172
```

1.25. Nội dung file navigations/ HomeStack.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
navigations > JS HomeStack.js > HomeStack > <function> > headerLeft
You, 34 minutes ago | 1 author (You)
1 import React from 'react';
2 import { createStackNavigator } from '@react-navigation/stack';
3 import { TouchableOpacity } from 'react-native';
4 import Icon from 'react-native-vector-icons/FontAwesome';
5 import HomeDetailsScreen from './screens/HomeDetailsScreen';
6 import MainBottom from './MainBottom';
7 // 22521172 - Vo Nhat Phuong
8
9 const Stack = createStackNavigator();
10
11 function HomeStack({ navigation }) {
12   return (
13     <Stack.Navigator>
14       <Stack.Screen
15         name="MainBottom"
16         component={MainBottom}
17         options={{ headerShown: false }}
18       />
19       <Stack.Screen
20         name="HomeDetails"
21         component={HomeDetailsScreen}
22         options={({ navigation }) => ({
23           title: 'HomeDetails',
24           headerBackTitleVisible: false,
25           headerLeft: () => (
26             <TouchableOpacity
27               onPress={() => navigation.goBack()}
28               style={{ marginLeft: 15, marginRight: 15 }}
29             >
30               You, 34 minutes ago * feature: add bt1 BTTH3 ...
31               <Icon name='arrow-left' size={24} color="#007AFF" />
32             </TouchableOpacity>
33           ),
34         })}
35       />
36     </Stack.Navigator>
37   );
38 }
39
40 export default HomeStack;
```

Output Debug Console Terminal 34 Ports GitLens Spell Checker 34

PROBLEMS ① "Phuong": Unknown word. Spell it [ln 7, Col 23]

TERMINAL Starting Metro Bundler 22521172

1.26. Nội dung file navigations/NotificationStack.js

```
29 | /* 22521172 - Vo Nhat Phuong */ You, 1 second ago * Uncommitted changes
30 | <Stack.Screen
31 |   name="NotificationDetails"
32 |   component={NotificationDetailsScreen}
33 |   options={({ navigation }) => ({
34 |     title: 'NotificationDetails',
35 |     headerBackTitleVisible: false,
36 |     headerLeft: () => (
37 |       <TouchableOpacity
38 |         onPress={() => navigation.goBack()}
39 |         style={{ marginLeft: 15, marginRight: 15 }}
40 |       >
41 |         <Icon name='arrow-left' size={24} color="#007AFF" />
42 |       </TouchableOpacity>
43 |     ),
44 |   )})
45 |   />
46 | </Stack.Navigator>
47 |
48 | );
49
50 export default NotificationsStack;
51
52
```

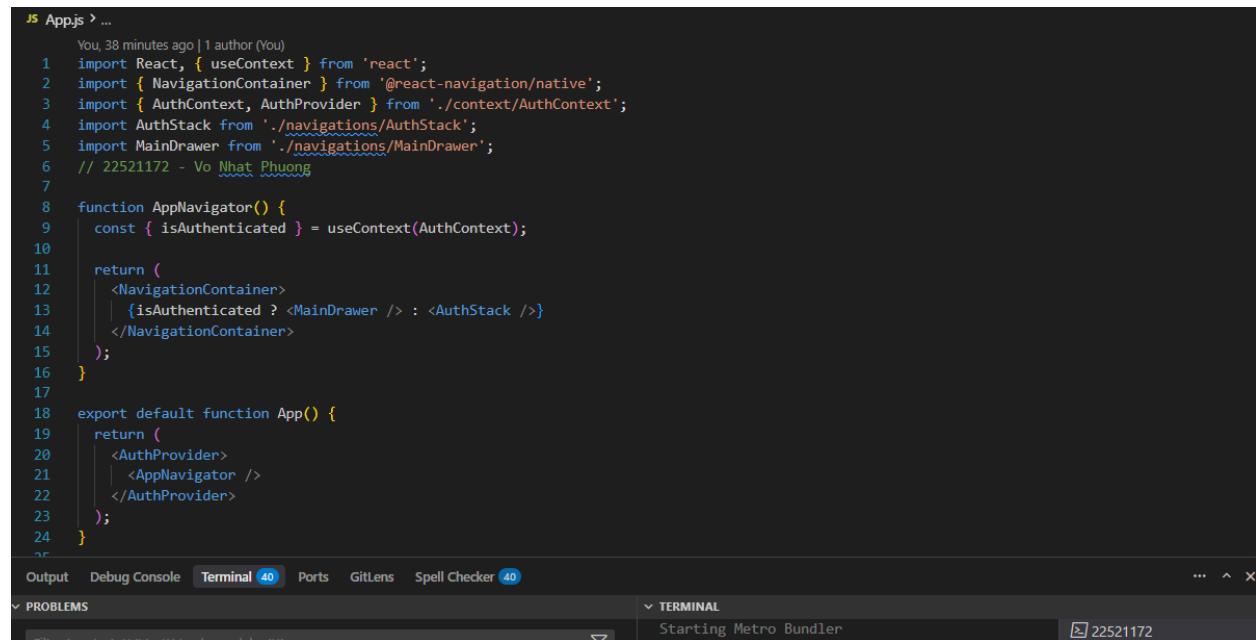
Output Debug Console Terminal 36 Ports GitLens Spell Checker 36

PROBLEMS

TERMINAL Starting Metro Bundler 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

1.27. Nội dung file App.js

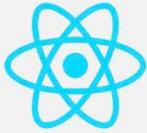


```
js App.js > ...
You, 38 minutes ago | 1 author (You)
1 import React, { useContext } from 'react';
2 import { NavigationContainer } from '@react-navigation/native';
3 import { AuthContext, AuthProvider } from './context/AuthContext';
4 import AuthStack from './navigations/AuthStack';
5 import MainDrawer from './navigations/MainDrawer';
6 // 22521172 - Vo Nhat Phuong
7
8 function AppNavigator() {
9   const { isAuthenticated } = useContext(AuthContext);
10
11   return (
12     <NavigationContainer>
13     | {isAuthenticated ? <MainDrawer /> : <AuthStack />}
14     </NavigationContainer>
15   );
16 }
17
18 export default function App() {
19   return (
20     <AuthProvider>
21     | <AppNavigator />
22     </AuthProvider>
23   );
24 }
```

Output Debug Console Terminal 40 Ports GitLens Spell Checker 40

PROBLEMS TERMINAL Starting Metro Bundler 22521172

1.28. Màn hình kết quả



Welcome

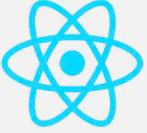
Email
 Password

[Forgot password?](#)

[LOG IN](#)

Or login with

Don't have an account? [Sign up here!](#)



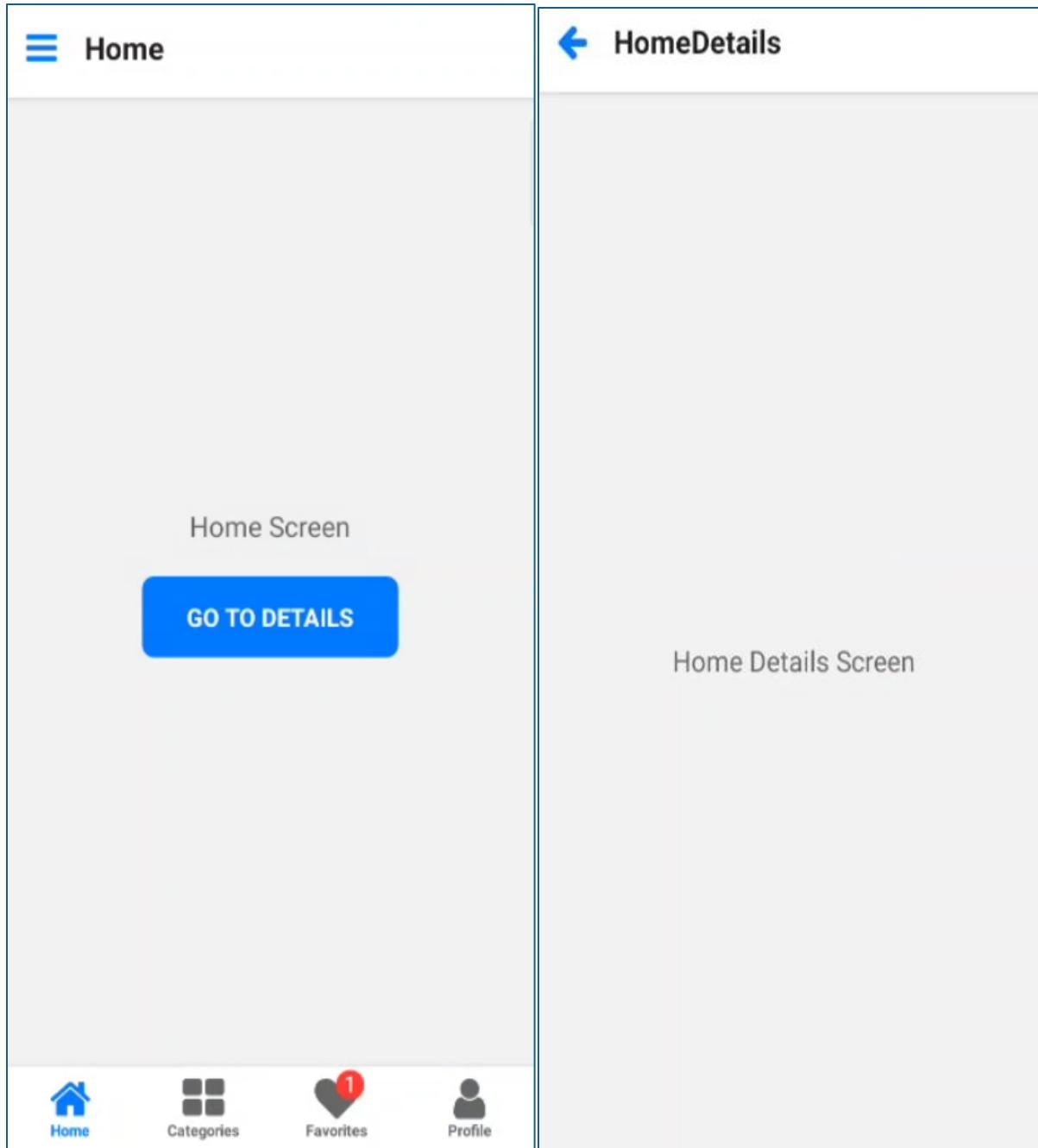
Create New Account

Enter username
 Email
 Password
 Confirm Password

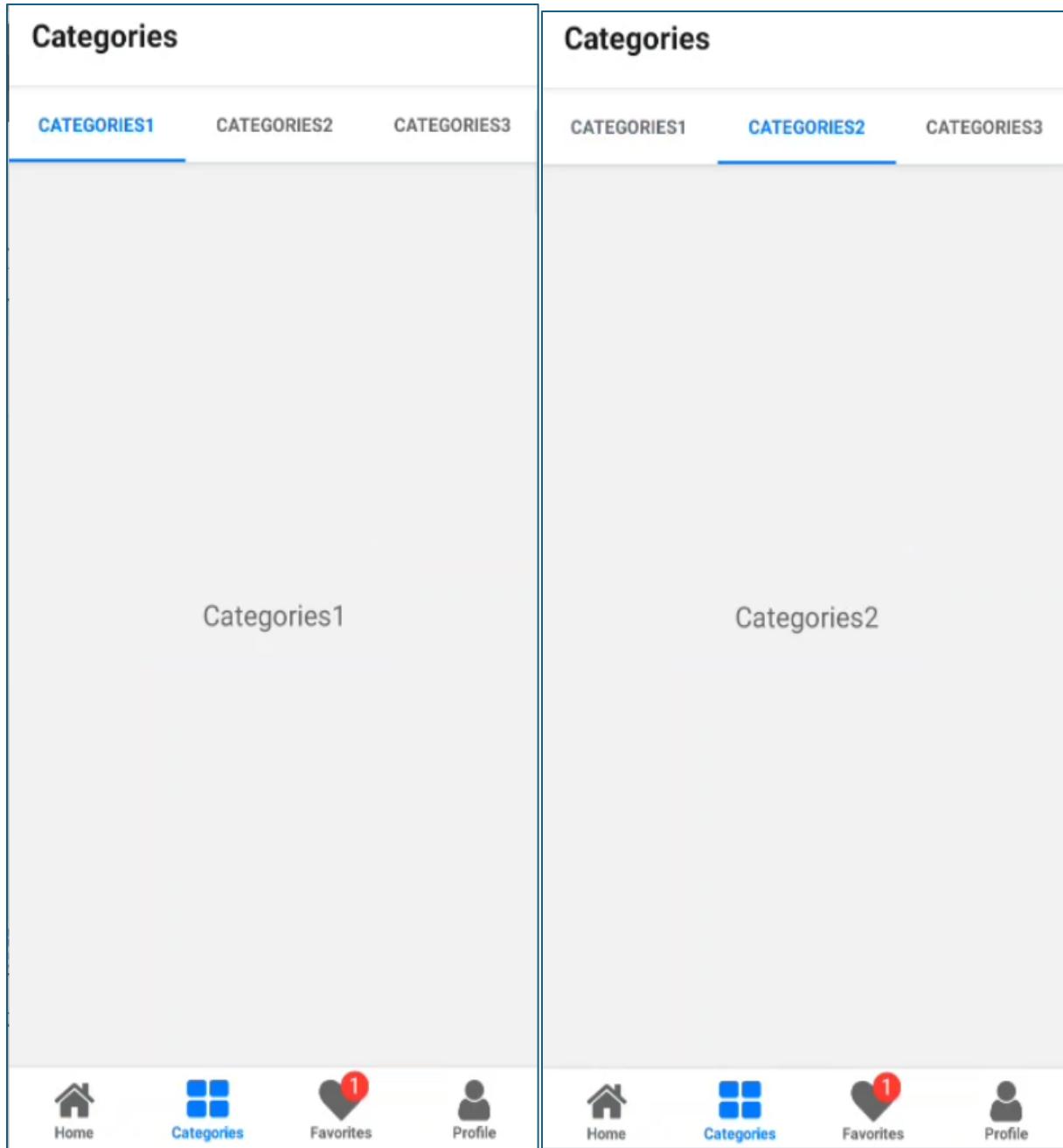
[CREATE](#)

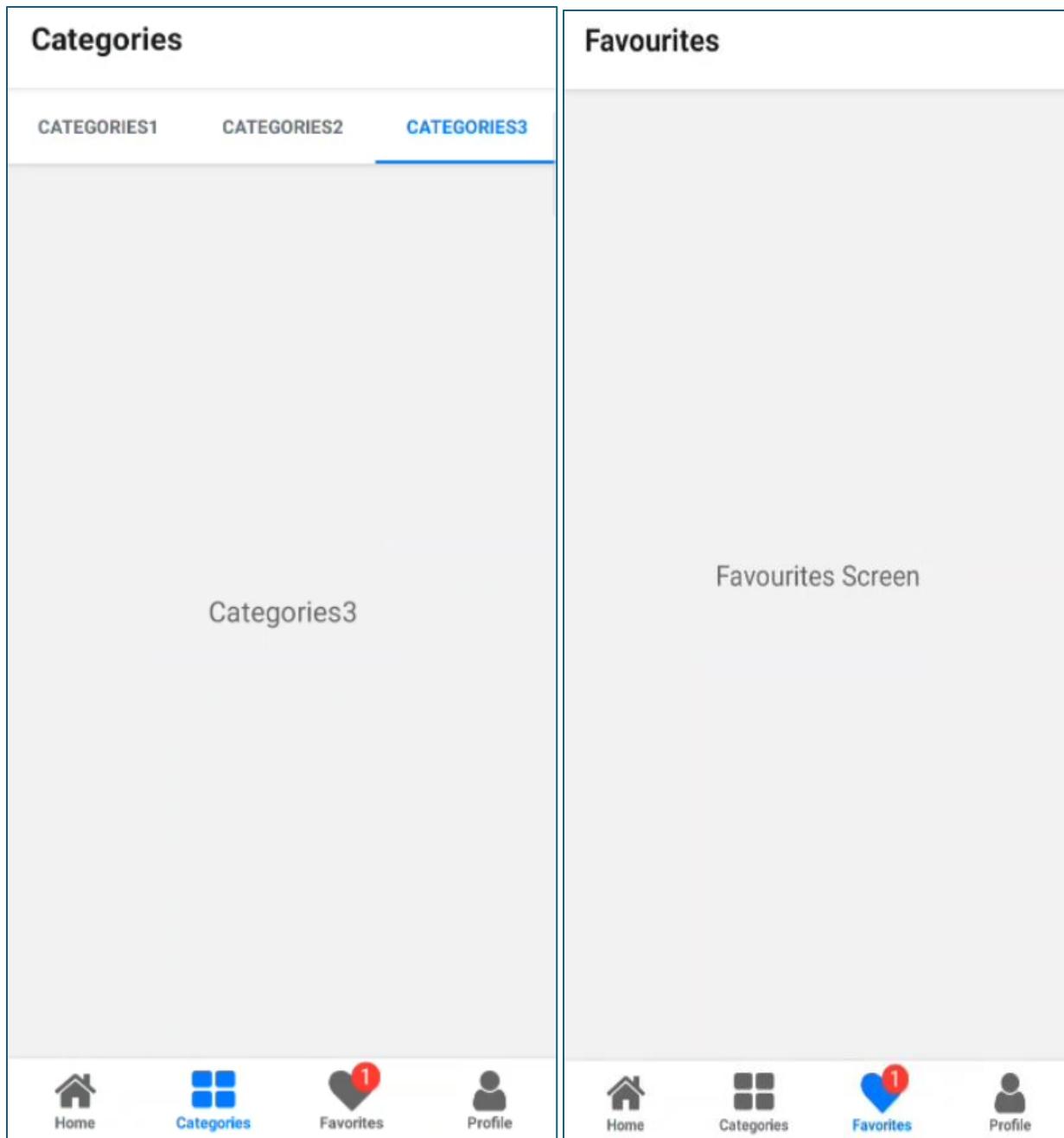
Already have an account? [Login now!](#)

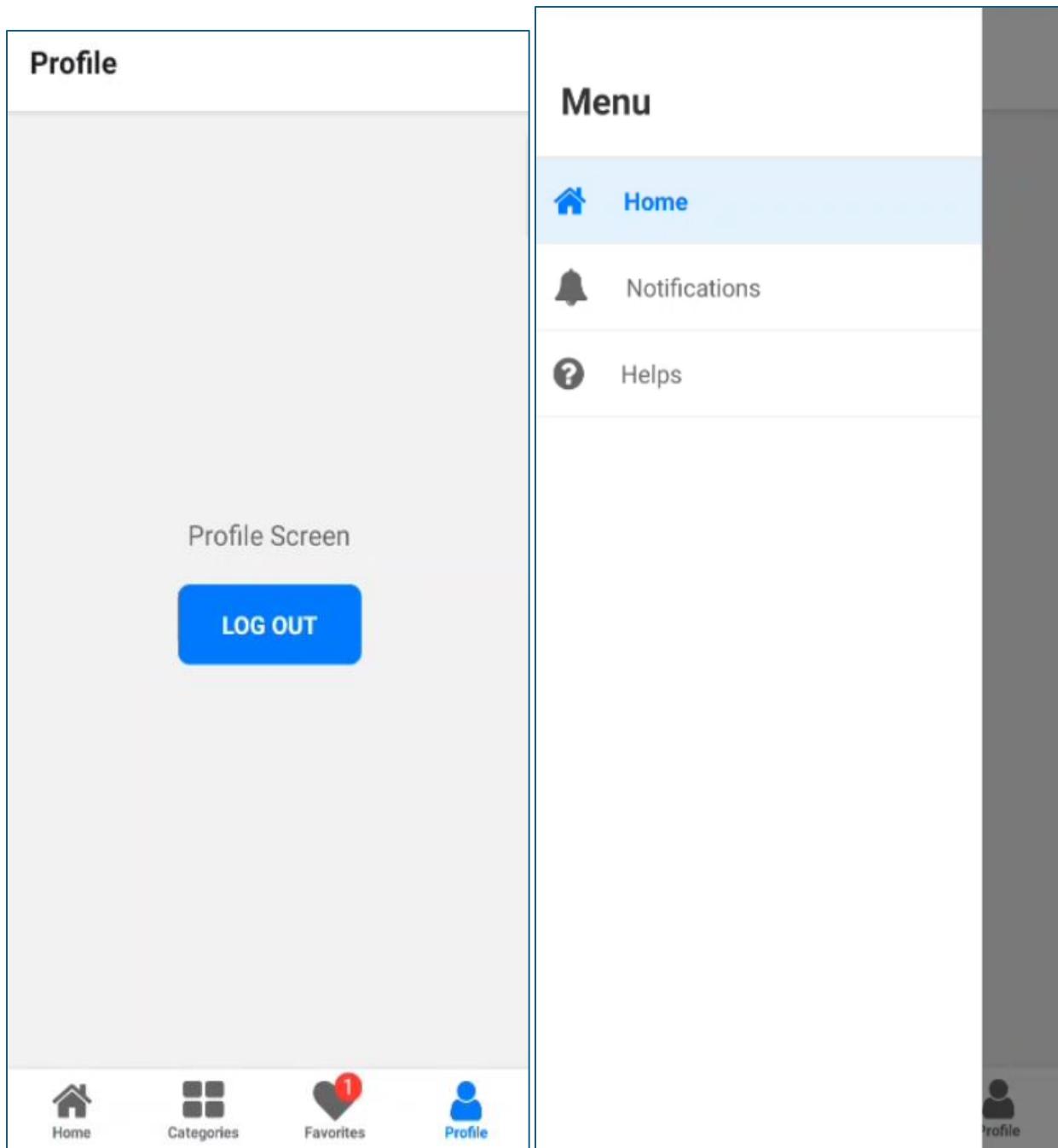
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



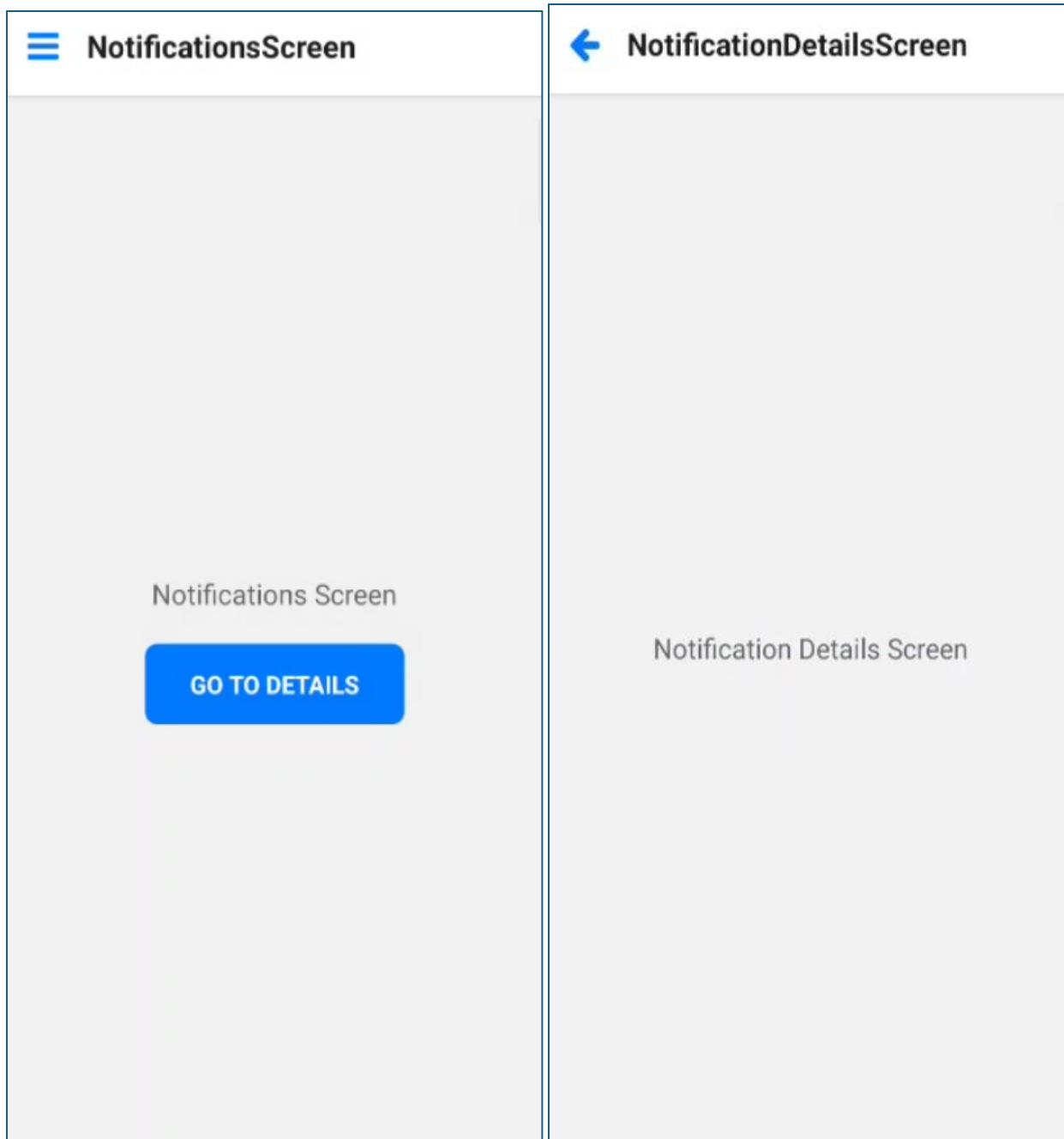
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

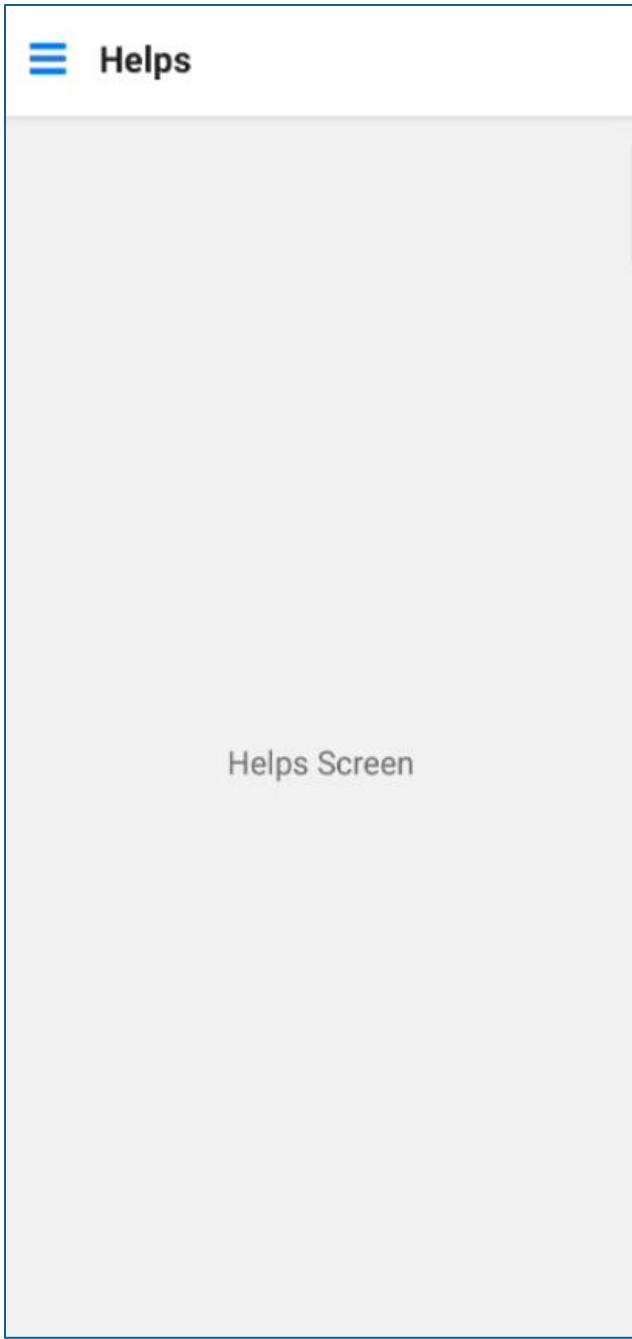






Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12





1.29. Video màn hình kết quả

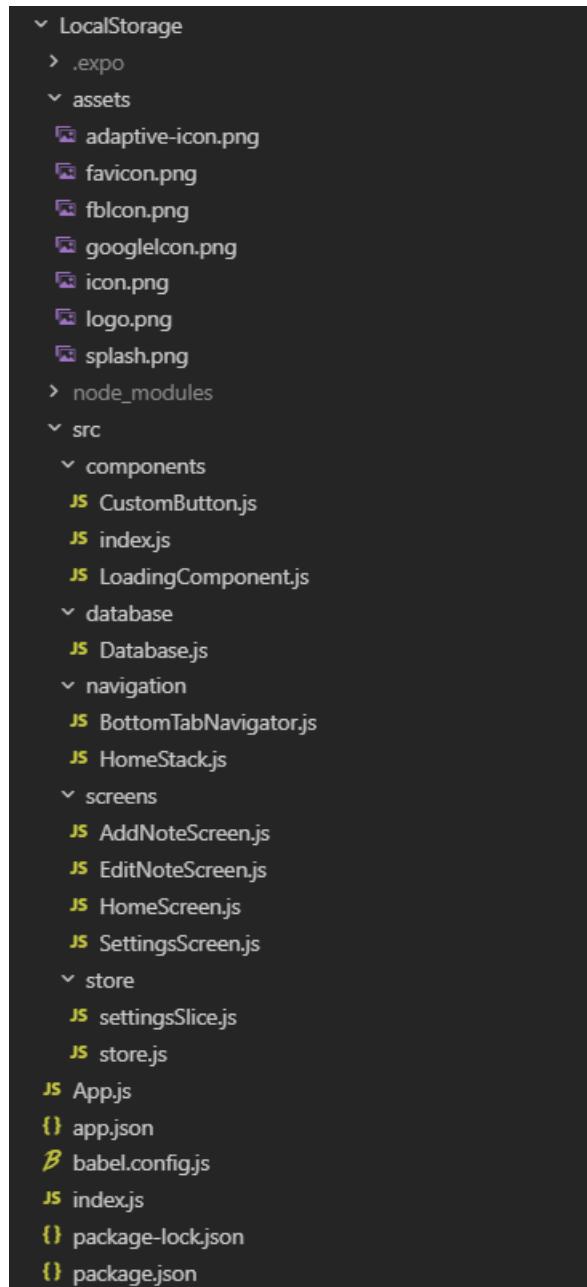
- Link video màn hình kết quả:

https://drive.google.com/file/d/1MNGAZwoASqARaWIAov4BkvCXIi_2bgb4/view?usp=sharing

2. Bài 2: Local Storage

2.1. Cấu trúc các folders / files của dự án.

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



2.2. Nội dung file index.js

```
LocalStorage > JS index.js
You, 20 seconds ago | 1 author (You)
1 import { registerRootComponent } from 'expo';
2 import App from './App';
3 // 22521172 - Vo Nhat Phuong You, 19 seconds ago * Uncommitted changes
4 registerRootComponent(App);
5
6
```

Output Debug Console Terminal 7 Ports GitLens Spell Checker 7 ... ^ x

PROBLEMS

TERMINAL

PS D:\Desktop\Nam4\IE307.Q12\BTTH3> 22521172

2.3. Nội dung file src/components/CustomButton.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
LocalStorage > src > components > JS CustomButton.js > ...
1 import React from 'react';
2 import { TouchableOpacity, StyleSheet } from 'react-native';
3 import { Ionicons } from '@expo/vector-icons';
4 import { useSelector } from 'react-redux';
5 // 22521172 - Vo Nhat Phuong
6 const CustomButton = ({onPress, icon, color, size = 30, style }) => {
7   const { darkMode } = useSelector((state) => state.settings);
8
9   return (
10     <TouchableOpacity
11       onPress={onPress}
12       style={[styles.button, { backgroundColor: color }, style]}
13       activeOpacity={0.7}
14     >
15       <Ionicons name={icon} size={size} color={darkMode ? '#000000' : 'white'} />
16     </TouchableOpacity>
17   );
18 };
19
20 const styles = StyleSheet.create({
21   button: {
22     width: 50,
23     height: 50,
24     borderRadius: 25,
25     justifyContent: 'center',
26     alignItems: 'center',
27     elevation: 3,
28     shadowColor: '#000',
29     shadowOffset: { width: 0, height: 2 },
30     shadowOpacity: 0.25,
31     shadowRadius: 3.84,
32   },
33 });
34
35 export default CustomButton;
36
```

Output Debug Console Terminal 9 Ports GitLens Spell Checker 9

PROBLEMS

TERMINAL PS D:\Desktop\Nam4\IE307.Q12\BTTH3> 22521172

2.4. Nội dung file src/components>LoadingComponent.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with a dark theme. At the top, there's a navigation bar with tabs for LocalStorage, src, components, and LoadingComponent.js. Below the navigation bar is the code for LoadingComponent.js, which imports React and ActivityIndicator from react-native, defines a LoadingComponent function that returns a View containing an ActivityIndicator, and creates a StyleSheet named styles. The code is annotated with line numbers from 1 to 22. Below the code editor is a terminal window titled 'TERMINAL' with the command 'PS D:\Desktop\Nam4\IE307.Q12\BTTH3>'. The terminal also displays the commit ID '22521172'.

```
You, 1 second ago | 1 author (You)
1 import React from 'react';
2 import { View, ActivityIndicator, StyleSheet } from 'react-native';
3 // 22521172 - Vo Nhat Phuong You, 1 second ago * Uncommitted changes
4 const LoadingComponent = ({ color = '#007AFF' }) => {
5   return (
6     <View style={styles.container}>
7       <ActivityIndicator size="large" color={color} />
8     </View>
9   );
10 };
11
12 const styles = StyleSheet.create({
13   container: {
14     flex: 1,
15     justifyContent: 'center',
16     alignItems: 'center',
17   },
18 });
19
20 export default LoadingComponent;
21
22
```

Output Debug Console Terminal 11 Ports GitLens Spell Checker 11

PROBLEMS

TERMINAL

PS D:\Desktop\Nam4\IE307.Q12\BTTH3> 22521172

2.5. Nội dung file src/components/index.js

The screenshot shows a code editor interface with a dark theme. At the top, there's a navigation bar with tabs for LocalStorage, src, components, and index.js. Below the navigation bar is the code for index.js, which exports two default components: CustomButton and LoadingComponent. The code is annotated with line numbers from 1 to 3. Below the code editor is a terminal window titled 'TERMINAL' with the command 'PS D:\Desktop\Nam4\IE307.Q12\BTTH3>'. The terminal also displays the commit ID '22521172'.

```
You, 1 second ago | 1 author (You)
1 // 22521172 - Vo Nhat Phuong You, 1 second ago * Uncommitted changes
2 export { default as CustomButton } from './CustomButton';
3 export { default as LoadingComponent } from './LoadingComponent';
```

Output Debug Console Terminal 13 Ports GitLens Spell Checker 13

PROBLEMS

TERMINAL

PS D:\Desktop\Nam4\IE307.Q12\BTTH3> 22521172

2.6. Nội dung file src/database/Database.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor with the following details:

- File Path:** LocalStorage > src > database > **JS** Database.js > ...
- Code Content:** A JavaScript file containing code to initialize a SQLite database. It includes imports from 'expo-sqlite', defines a database instance, and performs asynchronous operations to create tables and insert default settings.
- Terminal Output:** The terminal window shows the message "Settings table created successfully".
- Toolbars:** Output, Debug Console, Terminal (15), Ports, GitLens, Spell Checker (15).
- Bottom Status Bar:** PROBLEMS, TERMINAL, LOG, and a file path indicator.

```
LocalStorage > src > database > JS Database.js > ...
...
1 import * as SQLite from 'expo-sqlite';
2 let db = null;
3 // 22521172 - Vo Nhat Phuong
4 export const initDatabase = async () => {
5   try {
6     db = await SQLite.openDatabaseAsync('notes.db');
7     await createTables();
8     await insertDefaultSettings();
9     console.log('Database initialized successfully');
10  } catch (error) {
11    console.error('Database initialization error:', error);
12    throw error;
13  }
14};
15 const createTables = async () => {
16  try {
17    await db.execAsync(`
18      CREATE TABLE IF NOT EXISTS notes (
19        id INTEGER PRIMARY KEY AUTOINCREMENT,
20        title TEXT NOT NULL,
21        content TEXT
22      );
23    `);
24    console.log('Notes table created successfully');
25  }
26  await db.execAsync(`
27    CREATE TABLE IF NOT EXISTS settings (
28      id INTEGER PRIMARY KEY DEFAULT 1,
29      darkMode INTEGER DEFAULT 0,
30      fontSize INTEGER DEFAULT 16,
31      CHECK (id = 1)
32    );
33  `);
34  console.log('Settings table created successfully');
35 } catch (error) {
36   console.error('Create tables error:', error);
37   throw error;
38 }
39 };
40 // 22521172 - Vo Nhat Phuong
```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with a dark theme. The main area displays a file named `Database.js` containing JavaScript code for a database. The code includes functions for initializing default settings, ensuring the database is initialized, getting notes, and adding new notes. It uses `async/await` syntax and `sqlite3` library methods like `execAsync` and `prepareAsync`. The code editor has tabs for Output, Debug Console, Terminal (selected), Ports, GitLens, and Spell Checker.

```
LocalStorage > src > database > JS Database.js > ...
40 // 22521172 - Vo Nhat Phuong      You, 32 seconds ago * Uncommitted changes
41 const insertDefaultSettings = async () => {
42   try {
43     await db.execAsync(
44       'INSERT OR IGNORE INTO settings (id, darkMode, fontSize) VALUES (1, 0, 16);'
45     );
46     console.log('Default settings initialized');
47   } catch (error) {
48     console.error('Error initializing settings:', error);
49     throw error;
50   }
51 };
52
53 const ensureDatabase = () => {
54   if (!db) {
55     throw new Error('Database not initialized. Call initDatabase() first.');
56   }
57   return db;
58 };
59
60 export const getNotes = async () => {
61   try {
62     const database = ensureDatabase();
63     const result = await database.getAllAsync('SELECT * FROM notes ORDER BY id DESC;');
64     return result;
65   } catch (error) {
66     console.error('Error getting notes:', error);
67     throw error;
68   }
69 };
70
71 export const addNote = async (title, content) => {
72   try {
73     const database = ensureDatabase();
74     const statement = await database.prepareAsync(
75       'INSERT INTO notes (title, content) VALUES (?, ?);'
76     );
77     try {
78       const result = await statement.executeAsync([title, content || '']);
79       return result.lastInsertRowId;
80     } finally {

```

Output Debug Console **Terminal** 15 Ports GitLens Spell Checker 15 ... ^ x

PROBLEMS **TERMINAL** 5 LOG Settings table created successfully 22521172

JS Database.js LocalStorage\src\database

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
LocalStorage > src > database > JS Database.js > ...
71  export const addNote = async (title, content) => {
80 |   // 22521172 - Vo Nhat Phuong
81 |   } finally {
82 |     await statement.finalizeAsync();
83 |   }
84 } catch (error) {
85   console.error('Error adding note:', error);
86   throw error;
87 }
88 );
89
90 export const updateNote = async (id, title, content) => {
91 try {
92   const database = ensureDatabase();
93   const statement = await database.prepareAsync(
94     'UPDATE notes SET title = ?, content = ? WHERE id = ?';
95   );
96   try {
97     const result = await statement.executeAsync([title, content || '', id]);
98     return result.changes;
99   } finally {
100    await statement.finalizeAsync();
101  }
102 } catch (error) {
103   console.error('Error updating note:', error);
104   throw error;
105 }
106 );
107 You, 14 minutes ago * Feat: add bt2 bth3 ...
108
109 export const deleteNote = async (id) => {
110 try {
111   const database = ensureDatabase();
112   const statement = await database.prepareAsync('DELETE FROM notes WHERE id = ?');
113   try {
114     const result = await statement.executeAsync([id]);
115     return result.changes;
116   } finally {
117     await statement.finalizeAsync();
118   }
119 } catch (error) {
120   console.error('Error deleting note:', error);
121 }
```

Output Debug Console Terminal 17 Ports GitLens Spell Checker 17 ... ^ x

PROBLEMS JS Database.js LocalStorage\src\database

TERMINAL LOG Settings table created successfully 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor with the following details:

- File Path:** LocalStorage > src > database > **JS** Database.js
- Code Content:** The code defines three functions: `deleteNote`, `getSettings`, and `updateSettings`.
 - `deleteNote` takes an `id` and throws an error if it fails.
 - `getSettings` returns the current settings (darkMode and fontSize) from the database. If no result is found, it returns { darkMode: false, fontSize: 16 }.
 - `updateSettings` updates the settings in the database with the provided `darkMode` and `fontSize`. It uses a prepared statement to handle null values for darkMode.
- Terminal Output:** The terminal shows the message "Settings table created successfully".
- Bottom Bar:** Shows tabs for Output, Debug Console, Terminal (19), Ports, GitLens, Spell Checker (19), and a list of problems.

2.7. Nội dung file src/navigation/BottomTabNavigator.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

LocalStorage > src > navigation > **JS** BottomTabNavigator.js > **BottomTabNavigator** > **<function>** > **tabBarIcon**

```
You, 1 second ago | 1 author (You)
1 import React from 'react';
2 import { createBottomTabNavigator } from '@react-navigation/bottom-tabs';
3 import { Ionicons } from '@expo/vector-icons';
4 import { useSelector } from 'react-redux';
5 import HomeStack from './HomeStack';
6 import SettingsScreen from '../screens/SettingsScreen';
7 // 22521172 - Vo Nhat Phuong
8 const Tab = createBottomTabNavigator();
9
10 const BottomTabNavigator = () => {
11   const { darkMode } = useSelector((state) => state.settings);
12
13   return (
14     <Tab.Navigator
15       screenOptions={({ route }) => ({(
16         tabBarIcon: ({ focused, color, size }) => {
17           let iconName;
18
19           if (route.name === 'HomeTab') {
20             iconName = focused ? 'home' : 'home-outline';
21           } else if (route.name === 'Settings') {
22             iconName = focused ? 'settings' : 'settings-outline';
23           }
24
25           return <Ionicons name={iconName} size={size} color={color} />; You, 15 minutes ago * feat: add bt2 btth3
26         },
27         tabBarActiveTintColor: '#007AFF',
28         tabBarInactiveTintColor: darkMode ? '#ffffff' : '#9999',
29         tabBarStyle: {
30           backgroundColor: darkMode ? '#1a1a1a' : '#eeeeee',
31           borderTopColor: darkMode ? '#333' : '#e0e0e0',
32         },
33         headerShown: false,
34       })}
35     >
```

Output Debug Console Terminal 21 Ports GitLens Spell Checker 21 PROBLEMS TERMINAL > Press o | open project code in your editor 22521172

```
// 22521172 - Vo Nhat Phuong
<Tab.Screen
  name="HomeTab"
  component={HomeStack}
  options={{
    title: 'Home',
  }}
/>
<Tab.Screen
  name="Settings"
  component={SettingsScreen}
  options={{
    title: 'Settings',
    headerShown: true,
    headerStyle: {
      backgroundColor: darkMode ? '#1a1a1a' : '#f5f5f5',
    },
    headerTintColor: darkMode ? '#ffffff' : '#000000',
    headerTitleStyle: {
      fontWeight: 'bold',
    },
  }}
/>
</Tab.Navigator>
);
};

export default BottomTabNavigator;
```

2.8. NỘI DUNG FILE SRC/NAVIGATION/BOTTOMTABNAVIGATOR.JS

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows the HomeStack.js file in VS Code. The code defines a stack navigator with two screens: Home and AddNote. It uses a selector to determine dark mode colors. The Home screen has a header shown as false. The AddNote screen has a title and header back title visible as false.

```
LocalStorage > src > navigation > JS HomeStack.js > ...
1 import React from 'react';
2 import { createStackNavigator } from '@react-navigation/native-stack';
3 import HomeScreen from '../screens/HomeScreen';
4 import AddNoteScreen from '../screens/AddNoteScreen';
5 import EditNoteScreen from '../screens/EditNoteScreen';
6 import { useSelector } from 'react-redux';
7 // 22521172 - Vo Nhat Phuong
8 const Stack = createStackNavigator();
9
10 const HomeStack = () => {
11   const { darkMode } = useSelector((state) => state.settings);
12
13   return (
14     <Stack.Navigator
15       screenOptions={{
16         headerStyle: {
17           backgroundColor: darkMode ? '#1a1a1a' : '#f5f5f5',
18         },
19         headerTintColor: darkMode ? '#ffffff' : '#000000',
20         headerTitleStyle: {
21           fontWeight: 'bold',
22         },
23       }}
24     >
25       <Stack.Screen
26         name="Home"
27         component={HomeScreen}
28         options={{ headerShown: false }}
29       />
30       <Stack.Screen
31         name="AddNote"
32         component={AddNoteScreen}
33         options={{
34           title: 'AddNote',
35           headerBackTitleVisible: false,
36         }}
37     />
38   );
39 }
40
41 export default HomeStack;
```

Output Debug Console **Terminal 25** Ports GitLens Spell Checker 25

PROBLEMS **JS Database.js LocalStorage\src\database**

TERMINAL 9 22521172

The screenshot shows the HomeStack.js file in VS Code. The code defines a stack navigator with three screens: Home, AddNote, and EditNote. The Home screen has a header shown as false. The AddNote screen has a title and header back title visible as false. The EditNote screen also has a title and header back title visible as false.

```
38 |   // 22521172 - Vo Nhat Phuong
39 |   <Stack.Screen
40 |     name="EditNote"
41 |     component={EditNoteScreen}
42 |     options={{
43 |       title: 'EditNote',
44 |       headerBackTitleVisible: false,
45 |     }}
46 |   />
47 | </Stack.Navigator>
48 |
49 | );
50
51 export default HomeStack;
```

Output Debug Console **Terminal 27** Ports GitLens Spell Checker 27

PROBLEMS

TERMINAL 9 22521172

2.9. Nội dung file src/store/settingsSlice.js

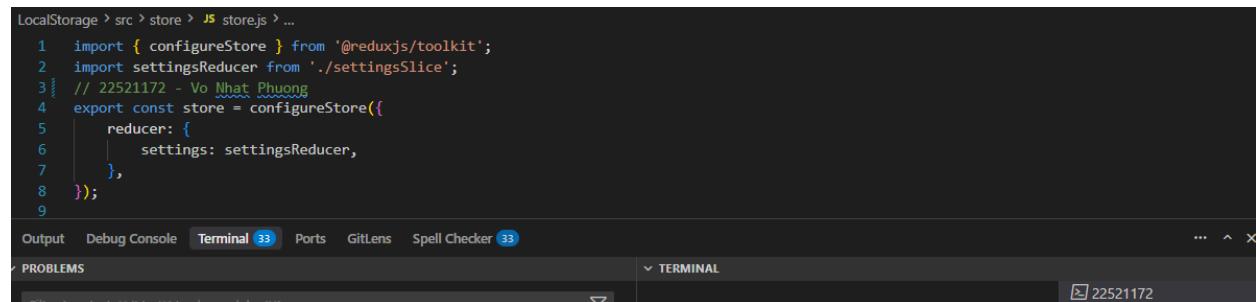
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
LocalStorage > src > store > JS settingsSlice.js > ...
You, 16 minutes ago | 1 author (You)
1 import { createSlice } from '@reduxjs/toolkit';
2 import { getSettings, updateSettings } from '../database/Database';
3 // 22521172 - Vo Nhat Phuong You, 16 minutes ago * Uncommitted changes
4 const initialState = {
5   darkMode: false,
6   fontSize: 16,
7   isLoading: true,
8 };
9
10 const settingsSlice = createSlice({
11   name: 'settings',
12   initialState,
13   reducers: {
14     setDarkMode: (state, action) => {
15       state.darkMode = action.payload;
16     },
17     setFontSize: (state, action) => {
18       state.fontSize = action.payload;
19     },
20     setSettings: (state, action) => {
21       state.darkMode = action.payload.darkMode;
22       state.fontSize = action.payload.fontSize;
23       state.isLoading = false;
24     },
25     setLoading: (state, action) => {
26       state.isLoading = action.payload;
27     },
28   },
29 });
30
31 export const { setDarkMode, setFontSize, setSettings, setLoading } = settingsSlice.actions;
32
Output Debug Console Terminal 29 Ports GitLens Spell Checker 29 ... ^ x
PROBLEMS TERMINAL 22521172
```

```
LocalStorage > src > store > JS settingsSlice.js > ...
33 // 22521172 - Vo Nhat Phuong
34 export const loadSettings = () => {
35   return async (dispatch) => {
36     try {
37       const settings = await getSettings();
38       dispatch(setSettings(settings));
39     } catch (error) {
40       console.error('Error loading settings:', error);
41       dispatch(setLoading(false));
42     }
43   };
44 };
45
46 export const updateDarkMode = (darkMode) => {
47   return async (dispatch, getState) => {
48     try {
49       dispatch(setDarkMode(darkMode));
50       const state = getState();
51       await updateSettings(state.settings.darkMode, state.settings.fontSize);
52     } catch (error) {
53       console.error('Error updating dark mode:', error);
54     }
55   };
56 };
57
58 export const updateFontSize = (fontSize) => {
59   return async (dispatch, getState) => {
60     try {
61       dispatch(setFontSize(fontSize));
62       const state = getState();
63       await updateSettings(state.settings.darkMode, state.settings.fontSize);
64     } catch (error) {
65       console.error('Error updating font size:', error);
66     }
67   };
68 };
69
70 export default settingsSlice.reducer;
71
Output Debug Console Terminal 31 Ports GitLens Spell Checker 31 ... ^ x
PROBLEMS TERMINAL 22521172
```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

2.10. Nội dung file src/store/store.js

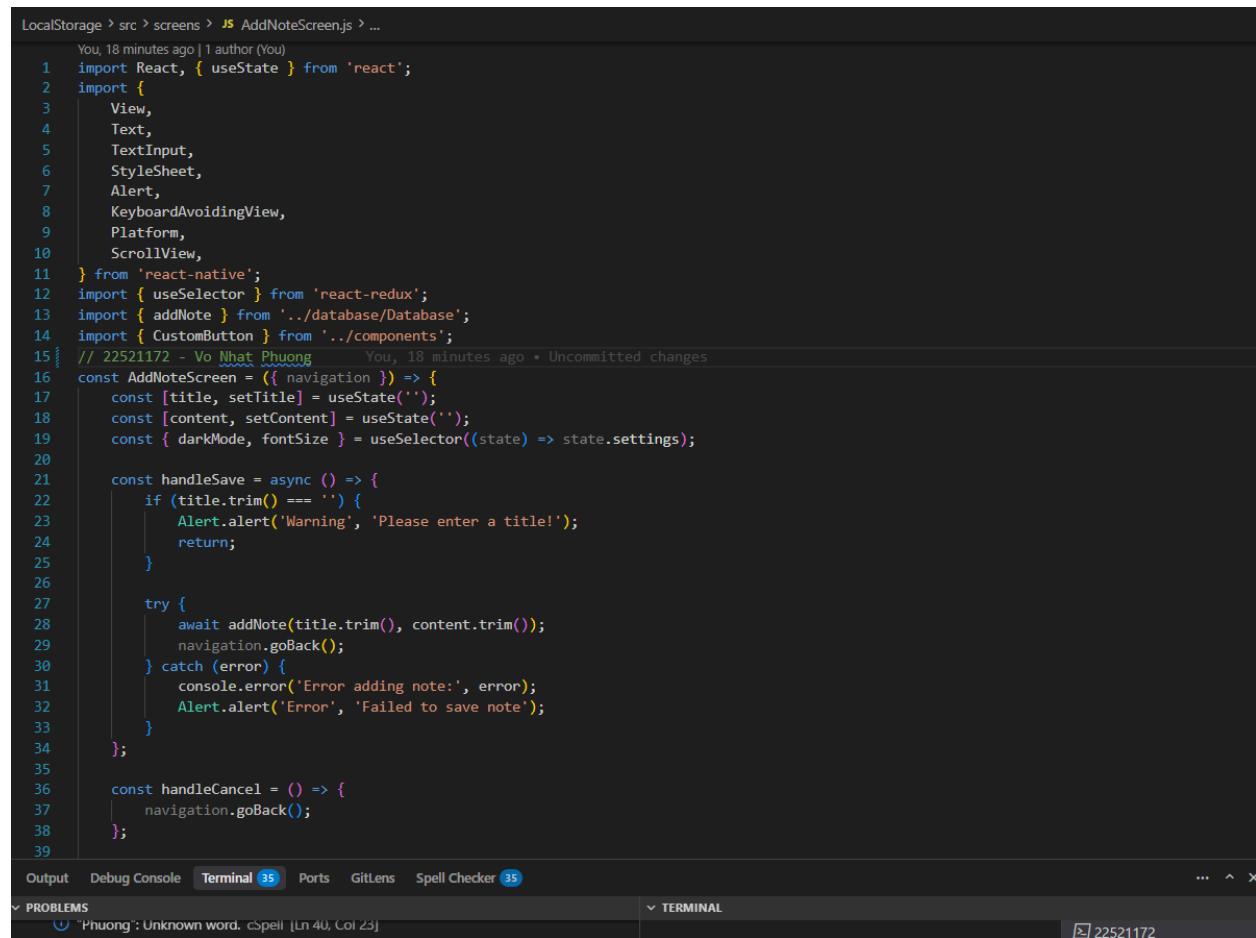


```
LocalStorage > src > store > JS store.js > ...
1 import { configureStore } from '@reduxjs/toolkit';
2 import settingsReducer from './settingsSlice';
3 // 22521172 - Vo Nhat Phuong
4 export const store = configureStore({
5   reducer: {
6     settings: settingsReducer,
7   },
8 });
9
```

Output Debug Console Terminal 33 Ports GitLens Spell Checker 33 ... ^ x

PROBLEMS TERMINAL 22521172

2.11. Nội dung file src/screens/AddNoteScreen.js



```
LocalStorage > src > screens > JS AddNoteScreen.js > ...
You, 18 minutes ago | 1 author (You)
1 import React, { useState } from 'react';
2 import {
3   View,
4   Text,
5   TextInput,
6   StyleSheet,
7   Alert,
8   KeyboardAvoidingView,
9   Platform,
10  ScrollView,
11 } from 'react-native';
12 import { useSelector } from 'react-redux';
13 import { addNote } from '../database/Database';
14 import { CustomButton } from '../components';
15 // 22521172 - Vo Nhat Phuong You, 18 minutes ago * Uncommitted changes
16 const AddNoteScreen = ({ navigation }) => {
17   const [title, setTitle] = useState('');
18   const [content, setContent] = useState('');
19   const { darkMode, fontSize } = useSelector((state) => state.settings);
20
21   const handleSave = async () => {
22     if (title.trim() === '') {
23       Alert.alert('Warning', 'Please enter a title!');
24       return;
25     }
26
27     try {
28       await addNote(title.trim(), content.trim());
29       navigation.goBack();
30     } catch (error) {
31       console.error('Error adding note:', error);
32       Alert.alert('Error', 'Failed to save note');
33     }
34   };
35
36   const handleCancel = () => {
37     navigation.goBack();
38   };
39
```

Output Debug Console Terminal 35 Ports GitLens Spell Checker 35 ... ^ x

PROBLEMS TERMINAL ⚠️ Phuong: Unknown word. cspell [Ln 40, Col 23] 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor with a dark theme. The file path is LocalStorage > src > screens > AddNoteScreen.js. The code is a functional component named AddNoteScreen. It imports styles from a local file and uses them to style a KeyboardAvoidingView and a ScrollView. Inside the ScrollView, there are two input containers, each containing a label, a placeholder, and a TextInput. The TextInput has a value prop set to title or content, and an onChangeText prop set to setTitle or setContent. The code also includes logic for dark mode switching.

```
LocalStorage > src > screens > AddNoteScreen.js > AddNoteScreen
16  const AddNoteScreen = ({ navigation }) => {
39
40 |   // 22521172 - Vo Nhat Phuong You, 19 minutes ago • Uncommitted changes
41   const theme = darkMode ? darkTheme : lightTheme;
42
43   return (
44     <KeyboardAvoidingView
45       style={[styles.container, theme.container]}
46       behavior={Platform.OS === 'ios' ? 'padding' : 'height'}
47       keyboardVerticalOffset={Platform.OS === 'ios' ? 0 : 20}
48     >
49     <ScrollView
50       contentContainerStyle={styles.scrollContent}
51       keyboardShouldPersistTaps="handled"
52     >
53       <View style={styles.inputContainer}>
54         <Text style={[styles.label, theme.label, {fontSize}]}>Enter your title</Text>
55         <TextInput
56           style={[
57             styles.input,
58             theme.input,
59             {fontSize, borderColor: darkMode ? '#333' : '#e0e0e0'},
60           ]}
61           value={title}
62           onChangeText={setTitle}
63           placeholder="Enter your title"
64           placeholderTextColor={darkMode ? '#666' : '#999'}
65           autoFocus
66         />
67       </View>
68
69       <View style={styles.inputContainer}>
70         <Text style={[styles.label, theme.label, {fontSize}]}>Enter your note</Text>
71         <TextInput
72           style={[
73             styles.textArea,
74             theme.input,
75             {fontSize, borderColor: darkMode ? '#333' : '#e0e0e0'},
76           ]}
77           value={content}
78         />
79       </View>
80     </ScrollView>
81   );
82 }
83
84 export default AddNoteScreen;
```

Output Debug Console Terminal 37 Ports GitLens Spell Checker 37 PROBLEMS ⚡ 'Phuong': Unknown word. cspell [Ln 40, Col 23] TERMINAL 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
LocalStorage > src > screens > JS AddNoteScreen.js > [o] AddNoteScreen
16  const AddNoteScreen = ({ navigation }) => {
78 |   // 22521172 - Vo Nhat Phuong      You, 19 minutes ago • Uncommitted changes
79 |   onChangeText={setContent}
80 |   placeholder="Enter your note"
81 |   placeholderTextColor={darkMode ? '#666' : '#999'}
82 |   multiline
83 |   textAlignVertical="top"
84 |   />
85 |   </View>
86 |
87 |   <View style={styles.buttonContainer}>
88 |     <CustomButton
89 |       onPress={handleCancel}
90 |       icon="close"
91 |       color="#ff4444"
92 |       size={24}
93 |       style={styles.actionButton}
94 |     />
95 |     <CustomButton
96 |       onPress={handleSave}
97 |       icon="checkmark"
98 |       color="#4CAF50"
99 |       size={24}
100 |       style={styles.actionButton}
101 |     />
102 |   </View>
103 |   </ScrollView>
104 |   </KeyboardAvoidingView>
105 | );
106 | };
107 |
108 | const lightTheme = {
109 |   container: { backgroundColor: '#ffffff' },
110 |   label: { color: '#333' },
111 |   input: { backgroundColor: '#ffffff', color: '#333' },
112 | };
113 |
Output  Debug Console  Terminal  PROBLEMS  PORTS  GitLens  Spell Checker  ...  ^  x
PROBLEMS  JS Database.js LocalStorage\src\database  9  TERMINAL  22521172
```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with two tabs open:

- AddNoteScreen.js:** This tab displays the styling for the Add Note screen. It includes a dark theme section and a styles section using StyleSheet.create. The styles define various components like container, scrollContent, inputContainer, label, input, and textArea with specific colors, borders, and padding.
- EditNoteScreen.js:** This tab displays the styling for the Edit Note screen. It includes a buttonContainer section with flexDirection: 'row' and justifyContent: 'space-around'. It also includes an actionButton section with marginHorizontal: 10. The file concludes with an export default statement.

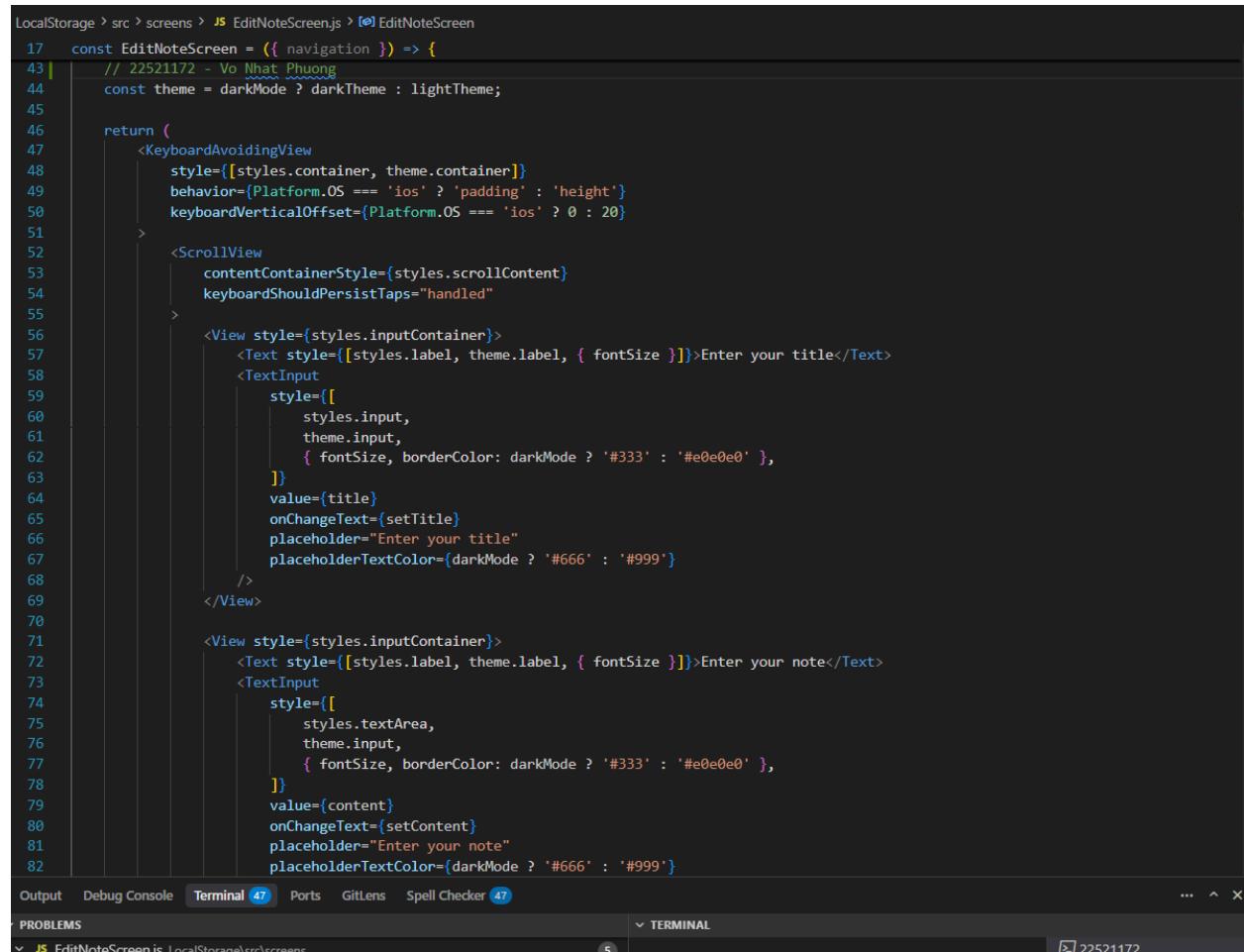
Below the tabs, there are several status indicators: Output, Debug Console, Terminal (41), Ports, GitLens, Spell Checker (41). The terminal window shows the identifier "22521172".

2.12. Nội dung file src/screens/EditNoteScreen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
LocalStorage > src > screens > JS EditNoteScreen.js > ...
1 import React, { useState, useEffect } from 'react';
2 import {
3   View,
4   Text,
5   TextInput,
6   StyleSheet,
7   Alert,
8   KeyboardAvoidingView,
9   Platform,
10  ScrollView,
11 } from 'react-native';
12 import { useRoute } from '@react-navigation/native';
13 import { useSelector } from 'react-redux';
14 import { updateNote } from '../database/Database';
15 import { CustomButton } from '../components';
16 // 22521172 - Vo Nhat Phuong
17 const EditNoteScreen = ({ navigation }) => {
18   const route = useRoute();
19   const { note } = route.params;
20   const [title, setTitle] = useState(note.title || '');
21   const [content, setContent] = useState(note.content || '');
22   const { darkMode, fontSize } = useSelector((state) => state.settings);
23
24   const handleSave = async () => {
25     if (title.trim() === '') {
26       Alert.alert('Warning', 'Please enter a title!');
27       return;
28     }
29
30     try {
31       await updateNote(note.id, title.trim(), content.trim());
32       navigation.goBack();
33     } catch (error) {
34       console.error('Error updating note:', error);
35       Alert.alert('Error', 'Failed to update note');
36     }
37   };
38
39   const handleCancel = () => {
40     navigation.goBack();
41   };
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```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



```
LocalStorage > src > screens > JS EditNoteScreen.js > [o] EditNoteScreen
17  const EditNoteScreen = ({ navigation }) => {
43 |   // 22521172 - Vo Nhat Phuong
44 |   const theme = darkMode ? darkTheme : lightTheme;
45 |
46 |   return (
47 |     <KeyboardAvoidingView
48 |       style={[styles.container, theme.container]}
49 |       behavior={Platform.OS === 'ios' ? 'padding' : 'height'}
50 |       keyboardVerticalOffset={Platform.OS === 'ios' ? 0 : 20}
51 |     >
52 |       <ScrollView
53 |         contentContainerStyle={styles.scrollContent}
54 |         keyboardShouldPersistTaps="handled"
55 |       >
56 |         <View style={styles.inputContainer}>
57 |           <Text style={[styles.label, theme.label, { fontSize }]}>Enter your title</Text>
58 |           <TextInput
59 |             style={[
60 |               styles.input,
61 |               theme.input,
62 |               { fontSize, borderColor: darkMode ? '#333' : '#e0e0e0' },
63 |             ]}
64 |             value={title}
65 |             onChangeText={setTitle}
66 |             placeholder="Enter your title"
67 |             placeholderTextColor={(darkMode ? '#666' : '#999')}
68 |           />
69 |         </View>
70 |
71 |         <View style={styles.inputContainer}>
72 |           <Text style={[styles.label, theme.label, { fontSize }]}>Enter your note</Text>
73 |           <TextInput
74 |             style={[
75 |               styles.textArea,
76 |               theme.input,
77 |               { fontSize, borderColor: darkMode ? '#333' : '#e0e0e0' },
78 |             ]}
79 |             value={content}
80 |             onChangeText={setContent}
81 |             placeholder="Enter your note"
82 |             placeholderTextColor={(darkMode ? '#666' : '#999')}
83 |           />
84 |         </View>
85 |       </ScrollView>
86 |     </KeyboardAvoidingView>
87 |   )
88 | }
89 |
90 | export default EditNoteScreen;
```

Output Debug Console Terminal 47 Ports GitLens Spell Checker 47

PROBLEMS **JS** EditNoteScreen.js LocalStorage\src\screens

TERMINAL 5 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor with a dark theme. The main content is a React Native component named `EditNoteScreen.js`. The component uses `useState` and `useEffect` hooks to manage state and fetch data from a local storage. It includes a `ScrollView` containing a `Form` with fields for title, content, and a file input. A `KeyboardAvoidingView` is used to handle keyboard interactions. The code also defines two theme objects: `lightTheme` and `darkTheme`, which define styles for container, label, and input components. The code editor interface at the bottom shows tabs for Output, Debug Console, Terminal (49), Ports, GitLens, and Spell Checker (49). The terminal tab is active, showing the identifier `22521172`.

```
// 22521172 - Vo Nhat Phuong
multiline
textAlignVertical="top"
/>
</View>
<View style={styles.buttonContainer}>
    <CustomButton
        onPress={handleCancel}
        icon="close"
        color="#ff4444"
        size={24}
        style={styles.actionButton}
    />
    <CustomButton
        onPress={handleSave}
        icon="checkmark"
        color="#4CAF50"
        size={24}
        style={styles.actionButton}
    />
</View>
</ScrollView>
</KeyboardAvoidingView>
);
};

const lightTheme = {
    container: { backgroundColor: '#ffffff' },
    label: { color: '#333' },
    input: { backgroundColor: '#ffffff', color: '#333' },
};

const darkTheme = {
    container: { backgroundColor: '#000000' },
    label: { color: '#ffffff' },
    input: { backgroundColor: '#1a1a1a', color: '#ffffff' },
};

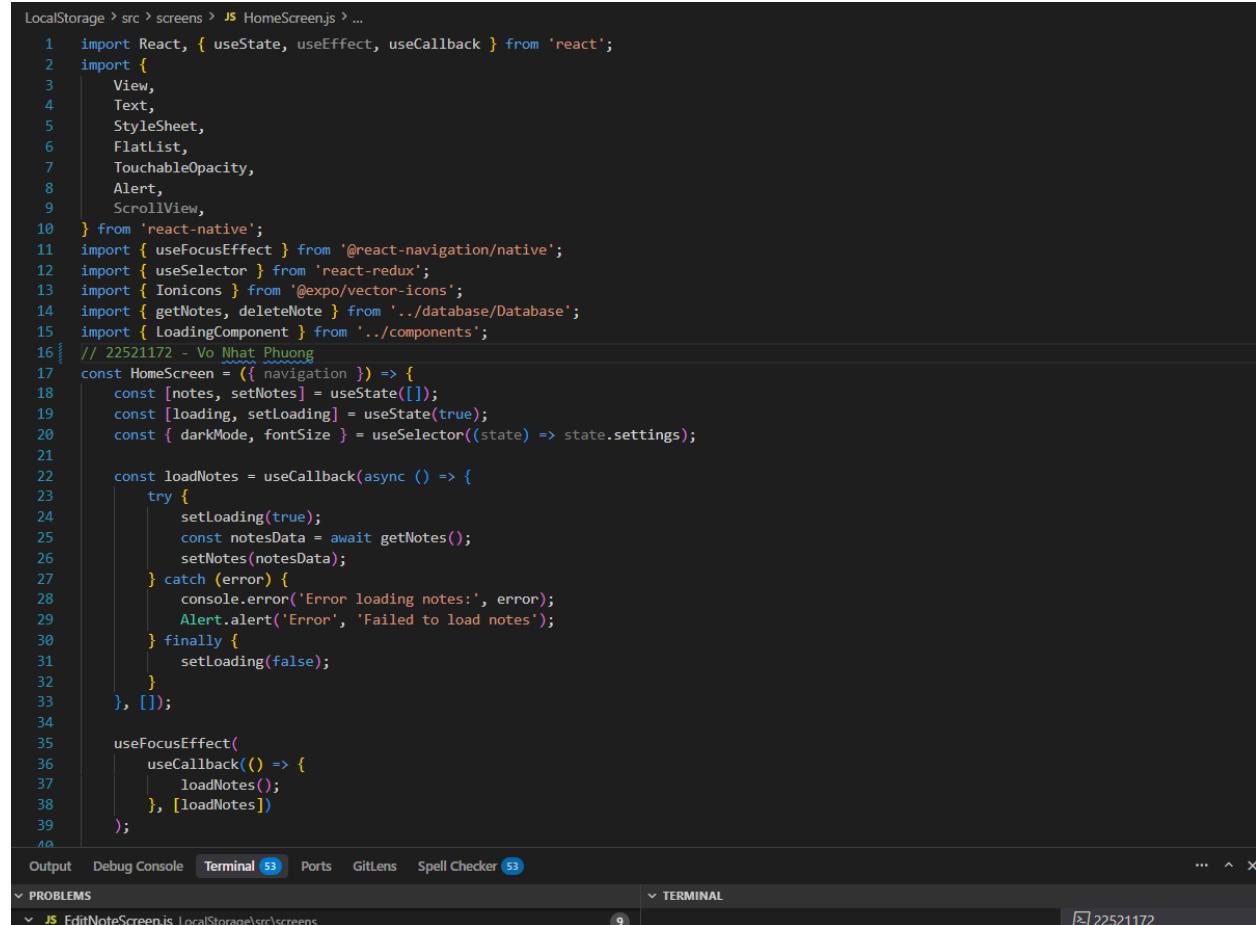
Output Debug Console Terminal 49 Ports GitLens Spell Checker 49
PROBLEMS
JS EditNoteScreen.js LocalStorage\src\screens
TERMINAL
22521172
```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
// 22521172 - Vo Nhat Phuong
const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
  scrollContent: {
    padding: 20,
    paddingBottom: 40,
  },
  inputContainer: {
    marginBottom: 20,
  },
  label: {
    marginBottom: 8,
    fontWeight: '600',
  },
  input: {
    borderWidth: 1,
    borderRadius: 8,
    padding: 12,
    minHeight: 50,
  },
  textArea: {
    borderWidth: 1,
    borderRadius: 8,
    padding: 12,
    minHeight: 150,
  },
  buttonContainer: {
    flexDirection: 'row',
    justifyContent: 'space-around',
    marginTop: 20,
  },
  actionBar: {
    marginHorizontal: 10,
  },
});
export default EditNoteScreen;
```

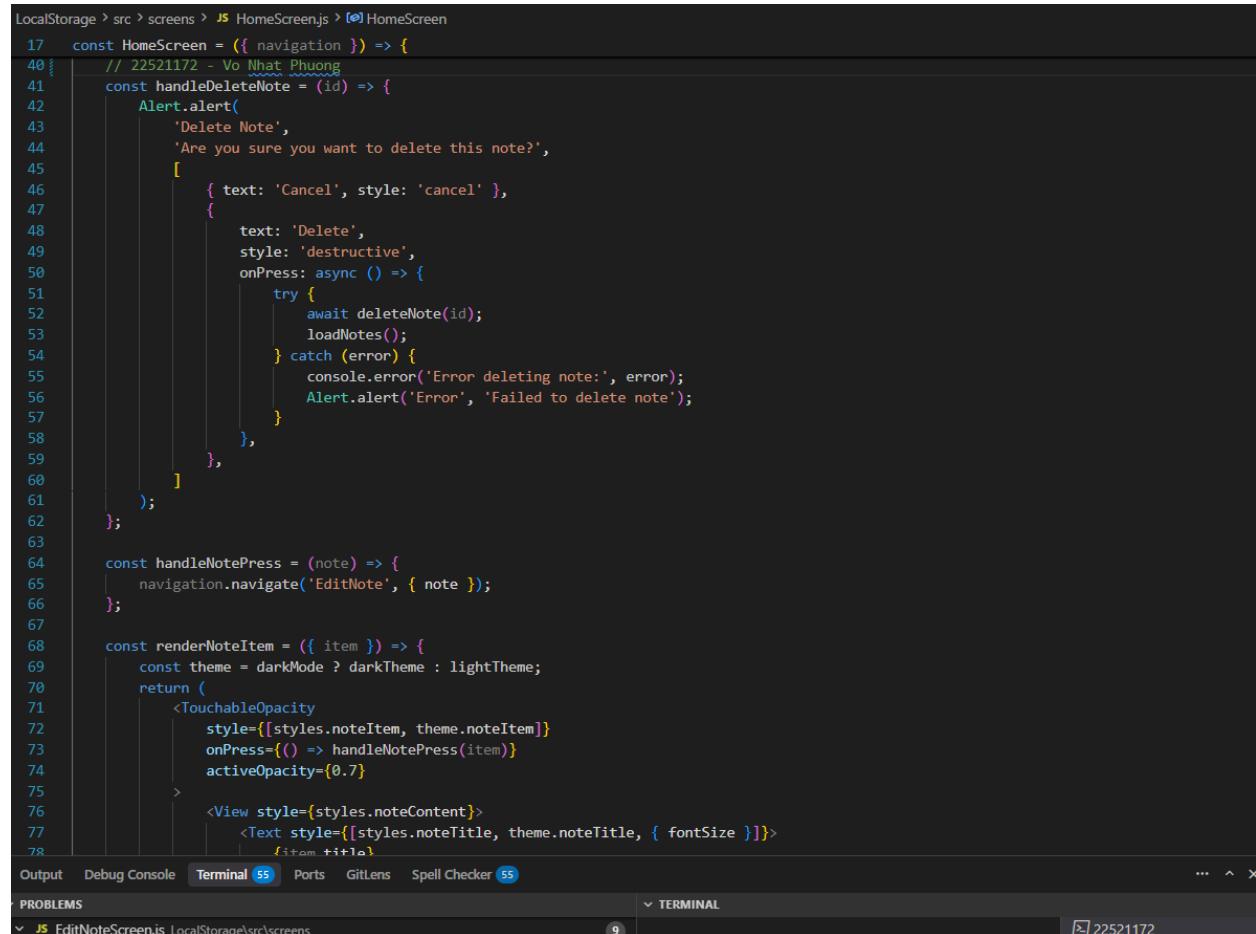
2.13. Nội dung file src/screens/HomeScreen.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



```
LocalStorage > src > screens > JS HomeScreen.js > ...
1 import React, { useState, useEffect, useCallback } from 'react';
2 import {
3   View,
4   Text,
5   StyleSheet,
6   FlatList,
7   TouchableOpacity,
8   Alert,
9   ScrollView,
10 } from 'react-native';
11 import { useFocusEffect } from '@react-navigation/native';
12 import { useSelector } from 'react-redux';
13 import { Ionicons } from '@expo/vector-icons';
14 import { getNotes, deleteNote } from '../database/Database';
15 import { LoadingComponent } from '../components';
16 // 22521172 - Vo Nhat Phuong
17 const HomeScreen = ({ navigation }) => {
18   const [notes, setNotes] = useState([]);
19   const [loading, setLoading] = useState(true);
20   const { darkMode, fontSize } = useSelector((state) => state.settings);
21
22   const loadNotes = useCallback(async () => {
23     try {
24       setLoading(true);
25       const notesData = await getNotes();
26       setNotes(notesData);
27     } catch (error) {
28       console.error('Error loading notes:', error);
29       Alert.alert('Error', 'Failed to load notes');
30     } finally {
31       setLoading(false);
32     }
33   }, []);
34
35   useFocusEffect(
36     useCallback(() => {
37       loadNotes();
38     }, [loadNotes])
39   );
40 }
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```

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12



The screenshot shows a code editor window with the file `LocalStorage/src/screens/HomeScreen.js` open. The code is written in JavaScript and contains logic for handling note deletion and navigation.

```
LocalStorage > src > screens > JS HomeScreen.js > HomeScreen
17  const HomeScreen = ({ navigation }) => {
40    // 22521172 - Vo Nhat Phuong
41    const handleDeleteNote = (id) => {
42      Alert.alert(
43        'Delete Note',
44        'Are you sure you want to delete this note?',
45        [
46          { text: 'Cancel', style: 'cancel' },
47          {
48            text: 'Delete',
49            style: 'destructive',
50            onPress: async () => {
51              try {
52                await deleteNote(id);
53                loadNotes();
54              } catch (error) {
55                console.error('Error deleting note:', error);
56                Alert.alert('Error', 'Failed to delete note');
57              }
58            },
59          },
60        ],
61      );
62    };
63
64    const handleNotePress = (note) => {
65      navigation.navigate('EditNote', { note });
66    };
67
68    const renderNoteItem = ({ item }) => {
69      const theme = darkMode ? darkTheme : lightTheme;
70      return (
71        <TouchableOpacity
72          style={[styles.noteItem, theme.noteItem]}
73          onPress={() => handleNotePress(item)}
74          activeOpacity={0.7}
75        >
76          <View style={styles.noteContent}>
77            <Text style={[styles.noteTitle, theme.noteTitle, { fontSize }]}>
78              {item.title}
79            </Text>
80          </View>
81        </TouchableOpacity>
82      );
83    };
84  };
85
86  export default HomeScreen;
```

The code includes imports for `Alert`, `deleteNote`, and `loadNotes`. It defines a `handleDeleteNote` function to show a confirmation dialog and handle note deletion. It also defines a `handleNotePress` function to navigate to the `EditNote` screen. The `renderNoteItem` function creates a touchable opacity component for each note item, applying styles based on the current theme.

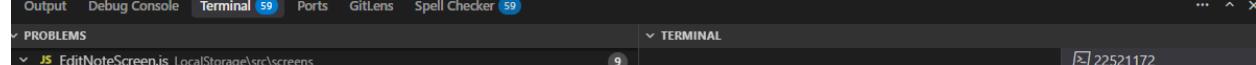
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
// 22521172 - Vo Nhat Phuong
<Text>
<Text style={[styles.noteText, theme.noteText, { fontSize }]}>
| {item.content}
</Text>
</View>
<TouchableOpacity
| onPress={() => handleDeleteNote(item.id)}
| style={styles.deleteButton}
| activeOpacity={0.7}
| >
| <Ionicons
| | name="trash-outline"
| | size={24}
| | color={darkMode ? '#ff6b6b' : '#ff4444'}
| >
| </TouchableOpacity>
| </TouchableOpacity>
| );
| ;
const theme = darkMode ? darkTheme : lightTheme;
if (loading) {
| return (
| <View style={[styles.container, theme.container]}>
| | <LoadingComponent color={darkMode ? '#4ECDCA' : '#007AFF'} />
| </View>
| );
}
return (
| <View style={[styles.container, theme.container]}>
| | <View style={[styles.header, theme.header]}>
| | | <Text style={[styles.headerTitle, theme.headerTitle]}>Note App</Text>
| | </View>
| | <View style={styles.contentHeader}>
```

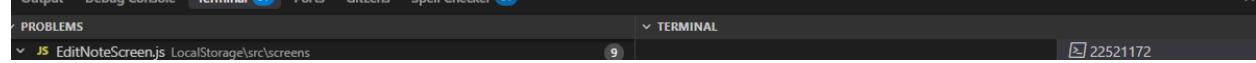
Output Debug Console Terminal 57 Ports GitLens Spell Checker 57 PROBLEMS JS EditNoteScreen.js LocalStorage\src\screens (9) TERMINAL 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

```
115 | // 22521172 - Vo Nhat Phuong
116 | <View style={styles.contentHeader}>
117 |   <Text style={[styles.sectionTitle, theme.sectionTitle, { fontSize }]}>
118 |     All notes
119 |   </Text>
120 |   <TouchableOpacity
121 |     onPress={() => navigation.navigate('AddNote')}
122 |     style={styles.addButton}
123 |     activeOpacity={0.7}
124 |   >
125 |     <Ionicons name="add" size={32} color="white" />
126 |   </TouchableOpacity>
127 | </View>
128 | {notes.length === 0 ? (
129 |   <View style={styles.emptyContainer}>
130 |     <Ionicons
131 |       name="document-text-outline"
132 |       size={64}
133 |       color={darkMode ? '#666' : '#999'}
134 |     />
135 |     <Text style={[styles.emptyText, theme.emptyText, { fontSize }]}>
136 |       No notes yet. Tap + to add one!
137 |     </Text>
138 |   </View>
139 | ) : (
140 |   <FlatList
141 |     data={notes}
142 |     renderItem={renderNoteItem}
143 |     keyExtractor={(item) => item.id.toString()}
144 |     contentContainerStyle={styles.listContainer}
145 |     showsVerticalScrollIndicator={false}
146 |   >
147 | )
148 | );
149 | };
150 | 
```



```
152 | // 22521172 - Vo Nhat Phuong
153 | const lightTheme = {
154 |   container: { backgroundColor: '#ffffff' },
155 |   header: { backgroundColor: '#f5f5f5' },
156 |   headerTitle: { color: '#FF6B35' },
157 |   sectionTitle: { color: '#333' },
158 |   noteItem: { backgroundColor: '#f9f9f9', borderColor: '#e0e0e0' },
159 |   noteTitle: { color: '#333' },
160 |   noteText: { color: '#666' },
161 |   emptyText: { color: '#999' },
162 | };
163 |
164 | const darkTheme = {
165 |   container: { backgroundColor: '#000000' },
166 |   header: { backgroundColor: '#1a1a1a' },
167 |   headerTitle: { color: '#4ECDCA' },
168 |   sectionTitle: { color: '#fffff' },
169 |   noteItem: { backgroundColor: '#1a1a1a', borderColor: '#333' },
170 |   noteTitle: { color: '#fffff' },
171 |   noteText: { color: '#cccccc' },
172 |   emptyText: { color: '#666' },
173 | };
174 |
175 | const styles = StyleSheet.create({
176 |   container: {
177 |     flex: 1,
178 |   },
179 |   header: {
180 |     paddingTop: 50,
181 |     paddingBottom: 15,
182 |     paddingHorizontal: 20,
183 |     alignItems: 'center',
184 |   },
185 |   headerTitle: {
186 |     fontSize: 28,
187 |     fontWeight: 'bold',
188 |   },
189 | }
```



Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with two tabs open: `HomeScreen.js` and `EditNoteScreen.js`. Both files contain CSS-like styles for various UI components.

HomeScreen.js:

```
// 22521172 - Vo Nhat Phuong
contentHeader: {
  flexDirection: 'row',
  justifyContent: 'space-between',
  alignItems: 'center',
  paddingHorizontal: 20,
  paddingVertical: 15,
},
sectionTitle: {
  fontWeight: '600',
},
addButton: {
  width: 56,
  height: 56,
  borderRadius: 28,
  backgroundColor: '#FF6B35',
  justifyContent: 'center',
  alignItems: 'center',
  elevation: 4,
  shadowColor: '#000',
  shadowOffset: { width: 0, height: 2 },
  shadowOpacity: 0.25,
  shadowRadius: 3.84,
},
listContainer: {
  paddingHorizontal: 20,
  paddingBottom: 20,
},
noteItem: {
  flexDirection: 'row',
  padding: 15,
  marginBottom: 12,
  borderRadius: 12,
  borderWidth: 1,
  elevation: 2,
  shadowColor: '#000',
}
```

EditNoteScreen.js:

```
// 22521172 - Vo Nhat Phuong
shadowOffset: { width: 0, height: 1 },
shadowOpacity: 0.1,
shadowRadius: 2,
},
noteContent: {
  flex: 1,
  marginRight: 10,
},
noteTitle: {
  fontWeight: 'bold',
  marginBottom: 5,
},
noteText: {
  lineHeight: 24,
},
deleteButton: {
  justifyContent: 'center',
  alignItems: 'center',
  padding: 5,
},
emptyContainer: {
  flex: 1,
  justifyContent: 'center',
  alignItems: 'center',
  paddingHorizontal: 40,
},
emptyText: {
  marginTop: 20,
  textAlign: 'center',
},
);
};

export default HomeScreen;
```

2.14. Nội dung file src/screens/SettingsScreen.js

```
LocalStorage > src > screens > JS SettingsScreen.js > ...
You, 27 minutes ago | 1 author (You)
1 import React from 'react';
2 import { View, Text, StyleSheet, Switch } from 'react-native';
3 import { useSelector, useDispatch } from 'react-redux';
4 import Slider from '@react-native-community/slider';
5 import { updateDarkMode, updateFontSize } from '../store/settingsSlice';
6 // 22521172 - Vo Nhat Phuong You, 27 minutes ago * Uncommitted changes
7 const SettingsScreen = () => {
8   const { darkMode, fontSize } = useSelector((state) => state.settings);
9   const dispatch = useDispatch();
10
11   const handleDarkModeToggle = (value) => {
12     dispatch(updateDarkMode(value));
13   };
14
15   const handleFontSizeChange = (value) => {
16     dispatch(updateFontSize(Math.round(value)));
17   };
18
19   const theme = darkMode ? darkTheme : lightTheme;
20
21   return (
22     <View style={[styles.container, theme.container]}>
23       <View style={styles.settingItem}>
24         <View style={styles.settingRow}>
25           <Text style={[styles.settingLabel, theme.settingLabel, { fontSize }]}>
26             Dark Mode
27           </Text>
28           <Switch
29             value={darkMode}
30             onValueChange={handleDarkModeToggle}
31             trackColor={{ false: '#767577', true: darkMode ? '#4ECDCA' : '#81b0ff' }}
32             thumbColor={darkMode ? '#4ECDCA' : '#f4f3f4'}
33           />
34         </View>
35       </View>
36     </View>
37   );
38 }
```

Output Debug Console Terminal 67 Ports GitLens Spell Checker 67 ... ^ x

v PROBLEMS v TERMINAL 22521172

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with two tabs open:

- EditNoteScreen.js**: This file contains React Native code for a note editing screen. It includes a font size setting component and theme definitions for light and dark modes.
- SettingsScreen.js**: This file contains StyleSheet.create code defining various UI styles for components like container, settingItem, settingRow, settingLabel, and slider.

```
// 22521172 - Vo Nhat Phuong You, 28 minutes ago * Uncommitted changes
36 // 22521172 - Vo Nhat Phuong You, 28 minutes ago * Uncommitted changes
37     <View style={styles.settingItem}>
38         <View style={styles.settingRow}>
39             <Text style={[styles.settingLabel, theme.settingLabel, {fontSize}]}>
40                 | Font Size
41             </Text>
42             <Text style={[styles.fontSizeValue, theme.fontSizeValue, {fontSize}]}>
43                 | {fontSize}
44             </Text>
45         </View>
46         <Slider
47             style={styles.slider}
48             minimumValue={12}
49             maximumValue={36}
50             step={2}
51             value={fontSize}
52             onValueChange={handleFontSizeChange}
53             minimumTrackTintColor={darkMode ? '#4ECDC4' : '#007AFF'}
54             maximumTrackTintColor={darkMode ? '#333' : '#d3d3d3'}
55             thumbTintColor={darkMode ? '#4ECDC4' : '#007AFF'}
56         />
57     </View>
58   );
59 }
60
61 const lightTheme = {
62   container: { backgroundColor: '#ffffff' },
63   settingLabel: { color: '#333' },
64   fontSizeValue: { color: '#333' },
65 };
66
67 const darkTheme = {
68   container: { backgroundColor: '#000000' },
69   settingLabel: { color: '#ffffff' },
70   fontSizeValue: { color: '#ffffff' },
71 };
72
73
74 // 22521172 - Vo Nhat Phuong
75 const styles = StyleSheet.create({
76   container: {
77     flex: 1,
78     padding: 20,
79   },
80   settingItem: {
81     marginBottom: 30,
82   },
83   settingRow: {
84     flexDirection: 'row',
85     justifyContent: 'space-between',
86     alignItems: 'center',
87     marginBottom: 15,
88   },
89   settingLabel: {
90     fontWeight: '600',
91   },
92   fontSizeValue: {
93     fontWeight: '600',
94   },
95   slider: {
96     width: '100%',
97     height: 40,
98   },
99 });
100
101 export default SettingsScreen;
```

Output Debug Console Terminal 69 Ports GitLens Spell Checker 69 PROBLEMS JS EditNoteScreen.js LocalStorage\src\screens 9 TERMINAL 22521172

```
LocalStorage > src > screens > JS SettingsScreen.js > [o] darkTheme
74 // 22521172 - Vo Nhat Phuong
75 const styles = StyleSheet.create({
76   container: {
77     flex: 1,
78     padding: 20,
79   },
80   settingItem: {
81     marginBottom: 30,
82   },
83   settingRow: {
84     flexDirection: 'row',
85     justifyContent: 'space-between',
86     alignItems: 'center',
87     marginBottom: 15,
88   },
89   settingLabel: {
90     fontWeight: '600',
91   },
92   fontSizeValue: {
93     fontWeight: '600',
94   },
95   slider: {
96     width: '100%',
97     height: 40,
98   },
99 });
100
101 export default SettingsScreen;
```

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2.15. Nội dung file App.js

Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

The screenshot shows a code editor interface with two tabs of code:

LocalStorage > JS App.js ...

```
You, 2 hours ago | author (You)
1 import React, { useEffect, useState } from 'react';
2 import { NavigationContainer } from '@react-navigation/native';
3 import { Provider, useDispatch, useSelector } from 'react-redux';
4 import { StatusBar } from 'expo-status-bar';
5 import { store } from './src/store/store';
6 import { loadSettings } from './src/store/settingsSlice';
7 import { initDatabase } from './src/database/database';
8 import BottomTabNavigator from './src/navigation/BottomTabNavigator';
9 import { LoadingComponent } from './src/components';
10 import { View, StyleSheet } from 'react-native';
11 // 22521172 - Vo Nhat Phuong You, 2 hours ago * Uncommitted changes
12 const AppContent = () => {
13   const [dbInitialized, setDbInitialized] = useState(false);
14   const dispatch = useDispatch();
15   const { darkMode } = useSelector((state) => state.settings);
16
17   useEffect(() => {
18     const initializeApp = async () => {
19       try {
20         await initDatabase();
21         setDbInitialized(true);
22         dispatch(loadSettings());
23       } catch (error) {
24         console.error('Error initializing app:', error);
25       }
26     };
27
28     initializeApp();
29   }, [dispatch]);
30
31   if (!dbInitialized) {
32     return (
33       <View style={styles.loadingContainer}>
34         <LoadingComponent color="#007AFF" />
35       </View>
36     );
37   }
38 }
```

Output Debug Console Terminal 73 Ports GitLens Spell Checker 73

PROBLEMS JS App.js LocalStorage

TERMINAL

LocalStorage > JS App.js ...

```
// 22521172 - Vo Nhat Phuong You, 2 hours ago * Uncommitted changes
38
39   return (
40     <>
41       <StatusBar style={darkMode ? 'light' : 'dark'} />
42       <NavigationContainer>
43         <BottomTabNavigator />
44       </NavigationContainer>
45     </>
46   );
47 };
48
49 const App = () => {
50   return (
51     <Provider store={store}>
52       <AppContent />
53     </Provider>
54   );
55 };
56
57 const styles = StyleSheet.create({
58   loadingContainer: {
59     flex: 1,
60     justifyContent: 'center',
61     alignItems: 'center',
62     backgroundColor: '#ffffff',
63   },
64 });
65
66 export default App;
67
```

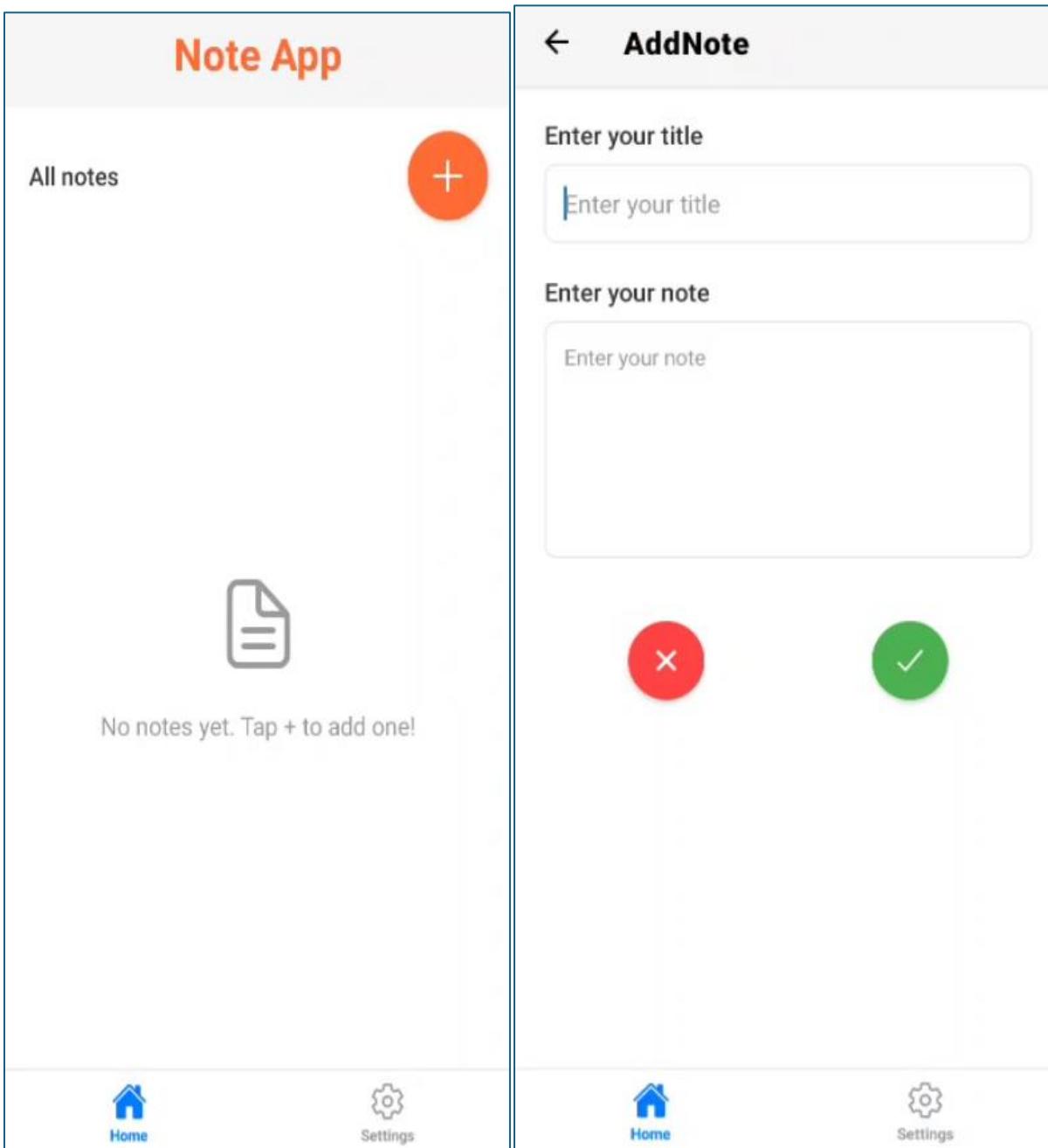
Output Debug Console Terminal 75 Ports GitLens Spell Checker 75

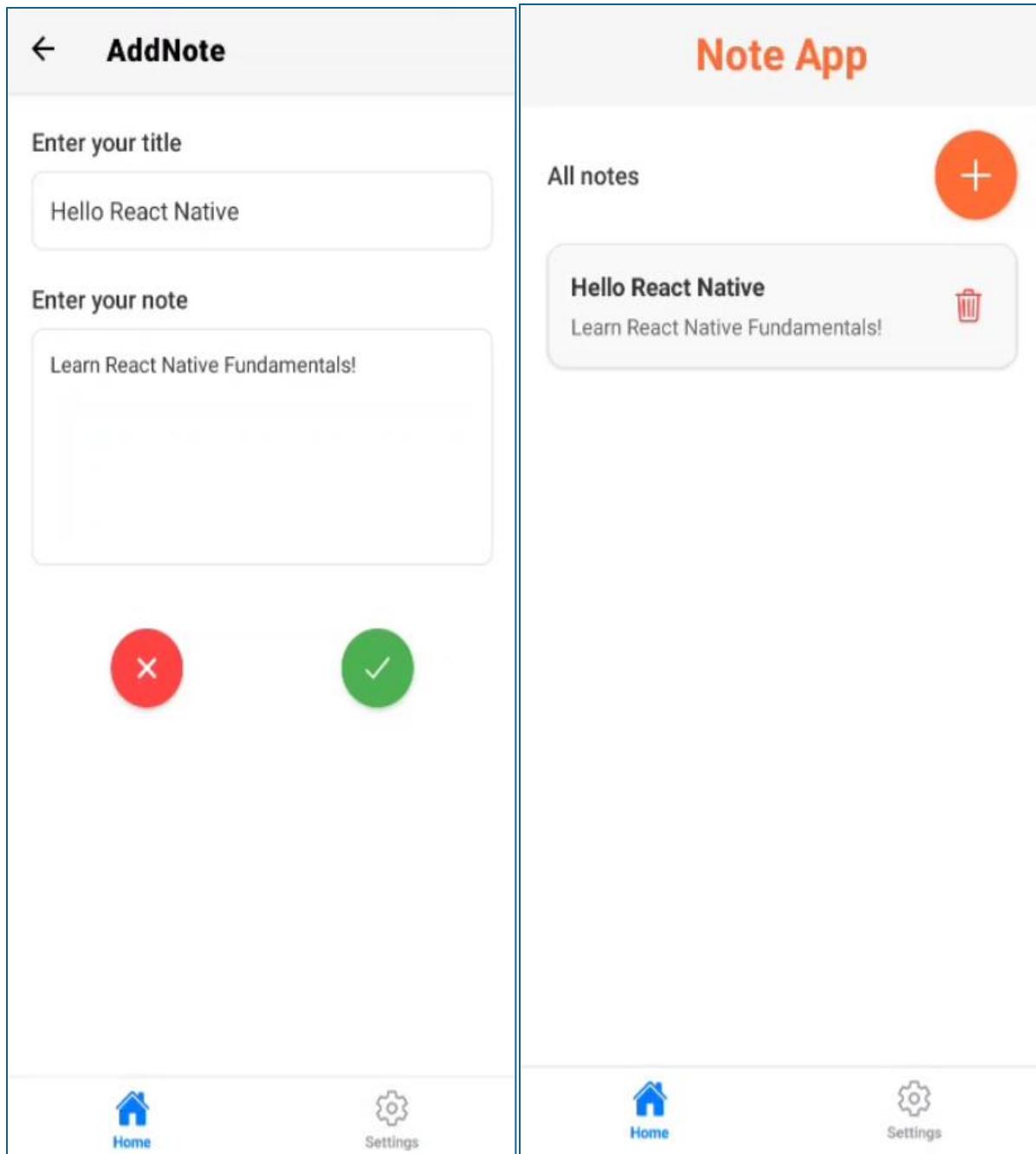
PROBLEMS

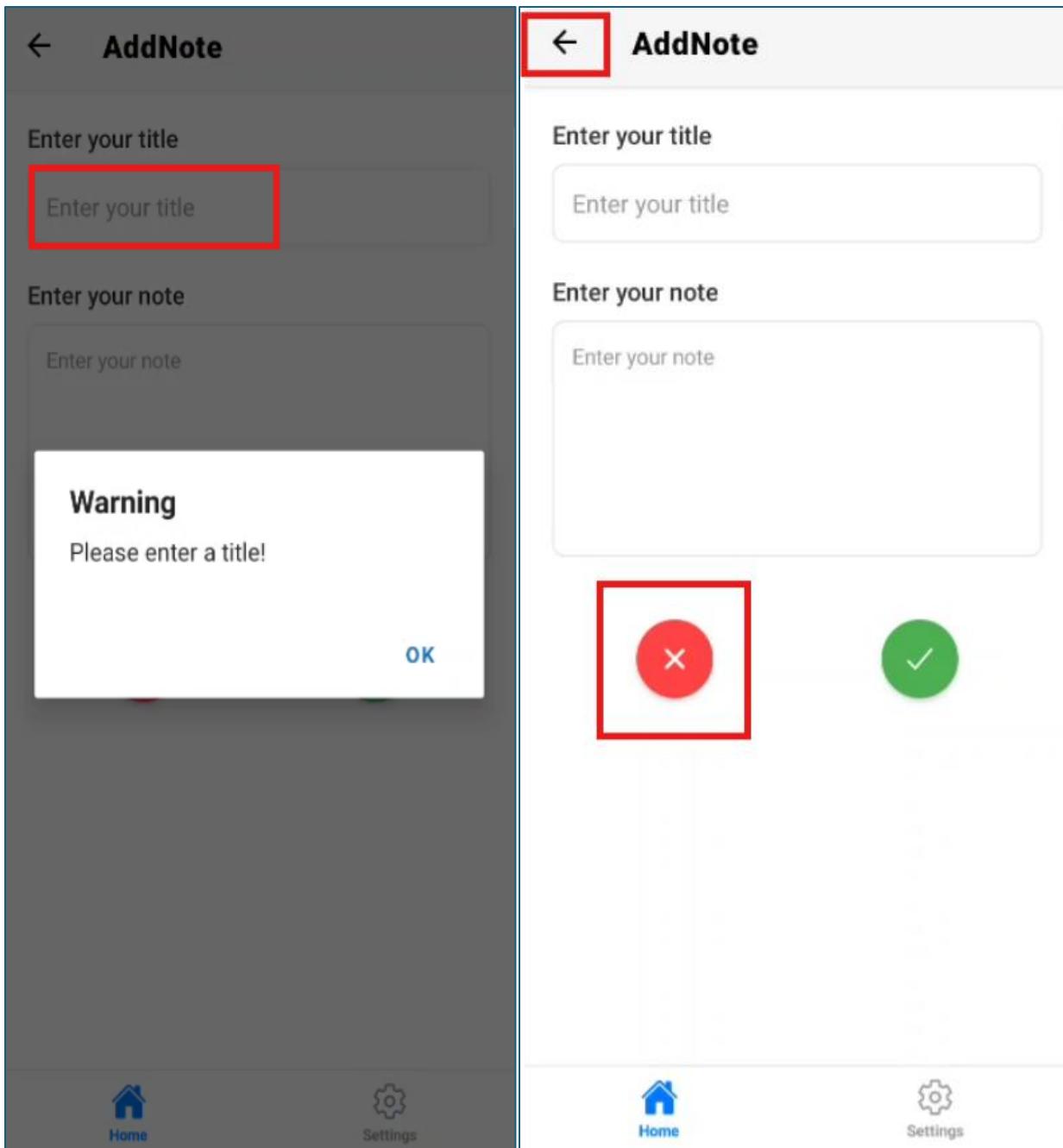
TERMINAL

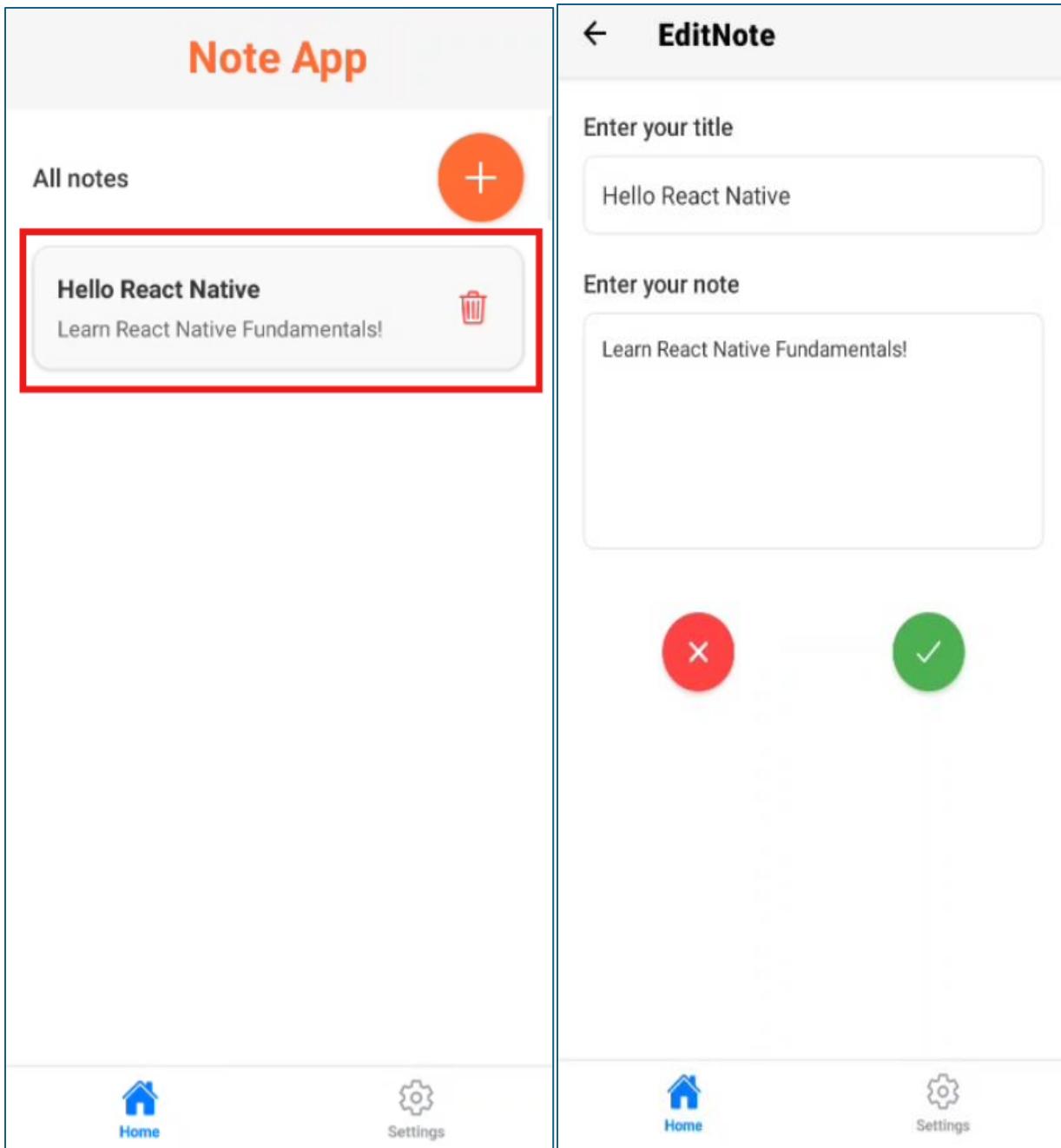
22521172

2.16. Màn hình kết quả









EditNote

Enter your title

Core Components

Enter your note

View, Text, Image, ScrollView, TextInput, StyleSheet, ListsViews, Button, Modal, Pressable, TouchableOpacity, Switch

All notes

Note App

Core Components

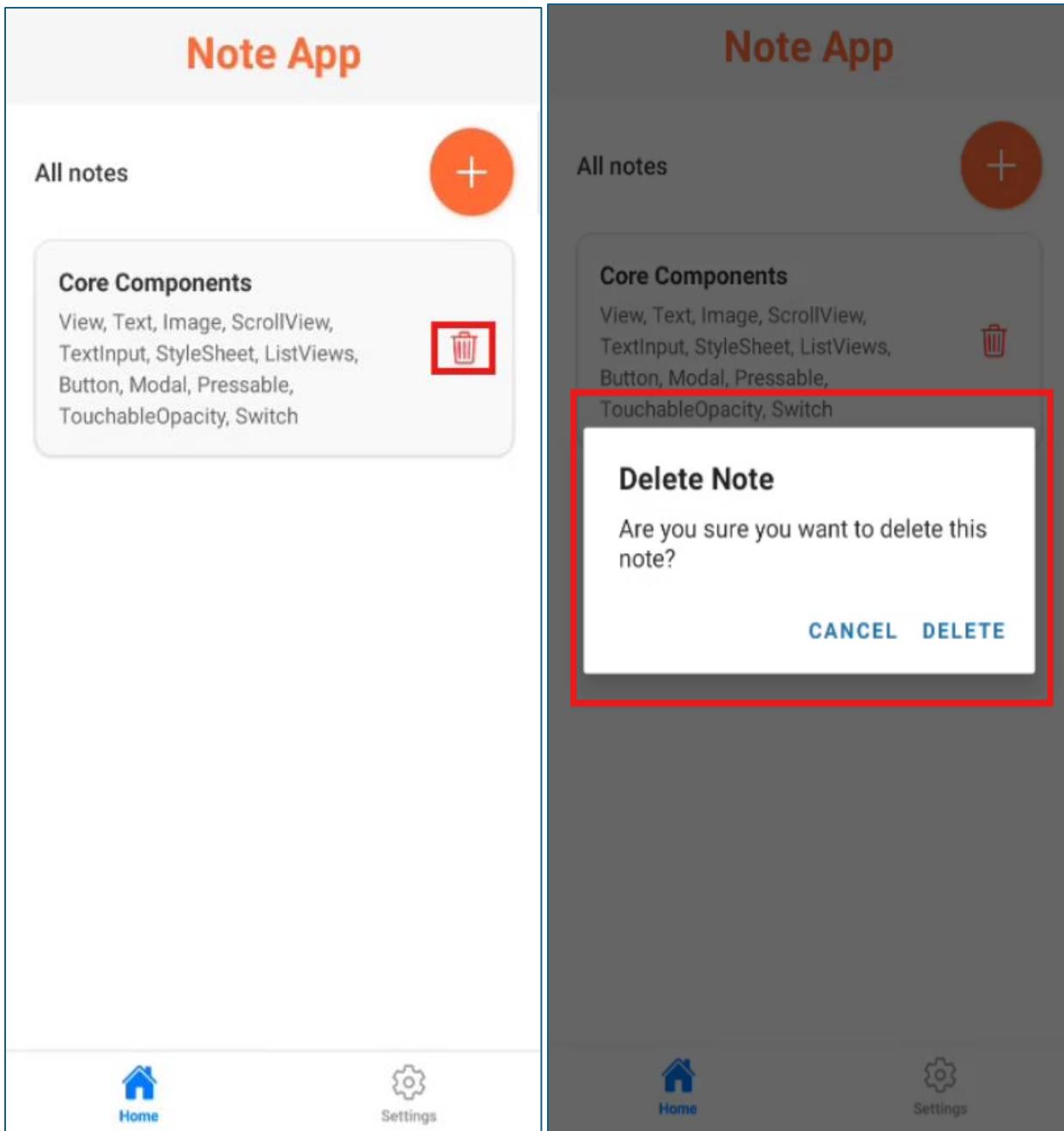
View, Text, Image, ScrollView, TextInput, StyleSheet, ListsViews, Button, Modal, Pressable, TouchableOpacity, Switch

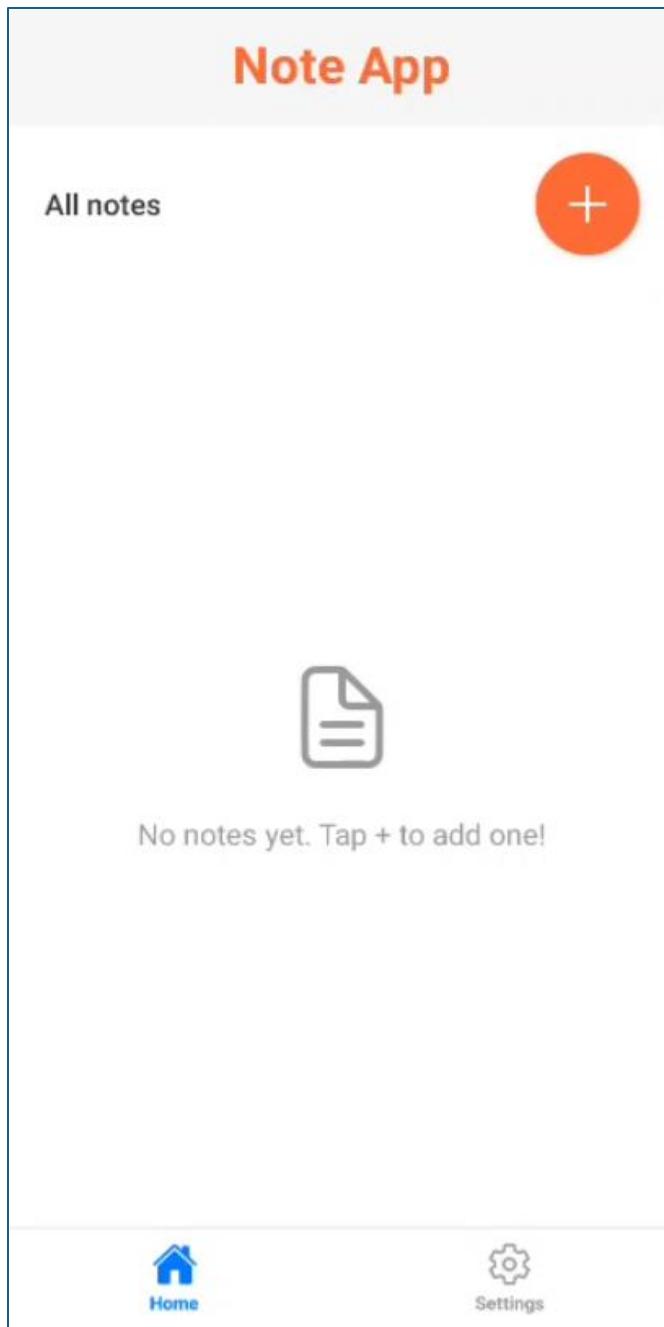
Home

Settings

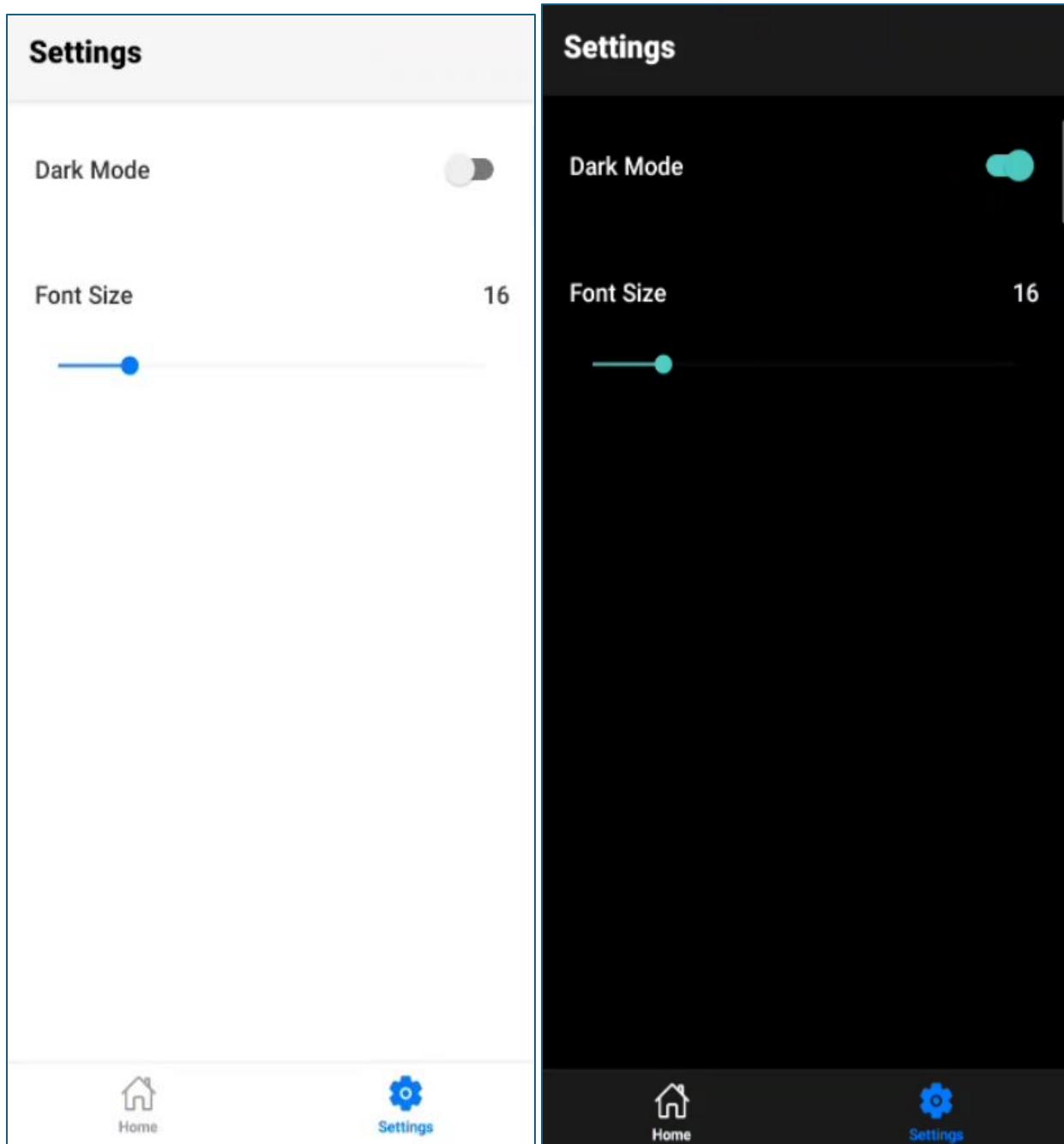
Home

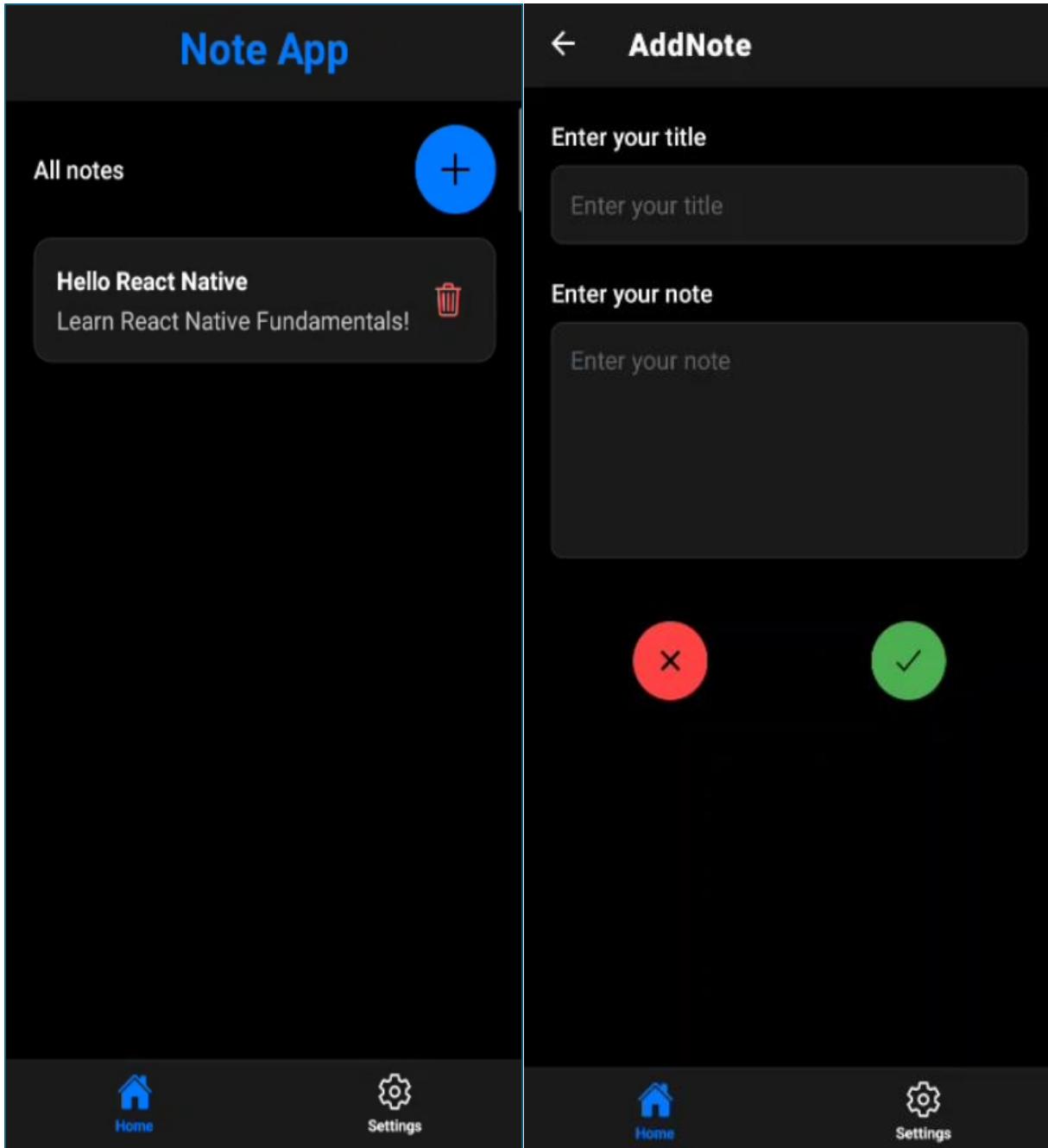
Settings

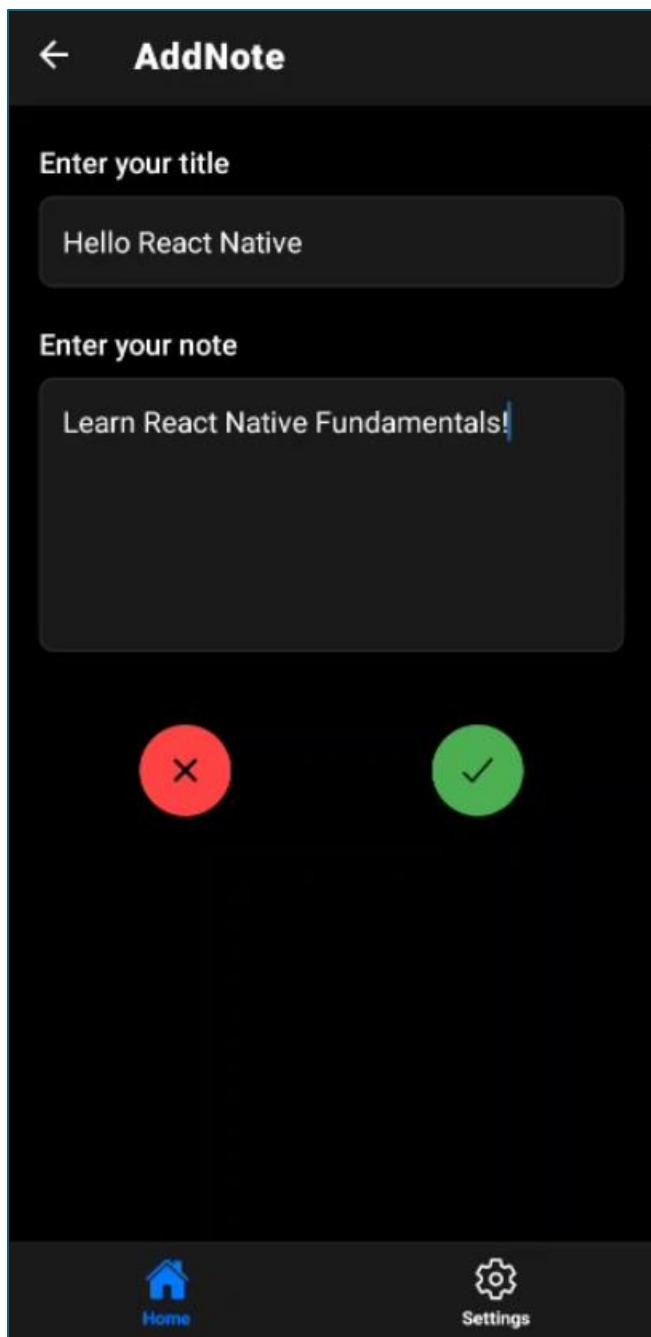


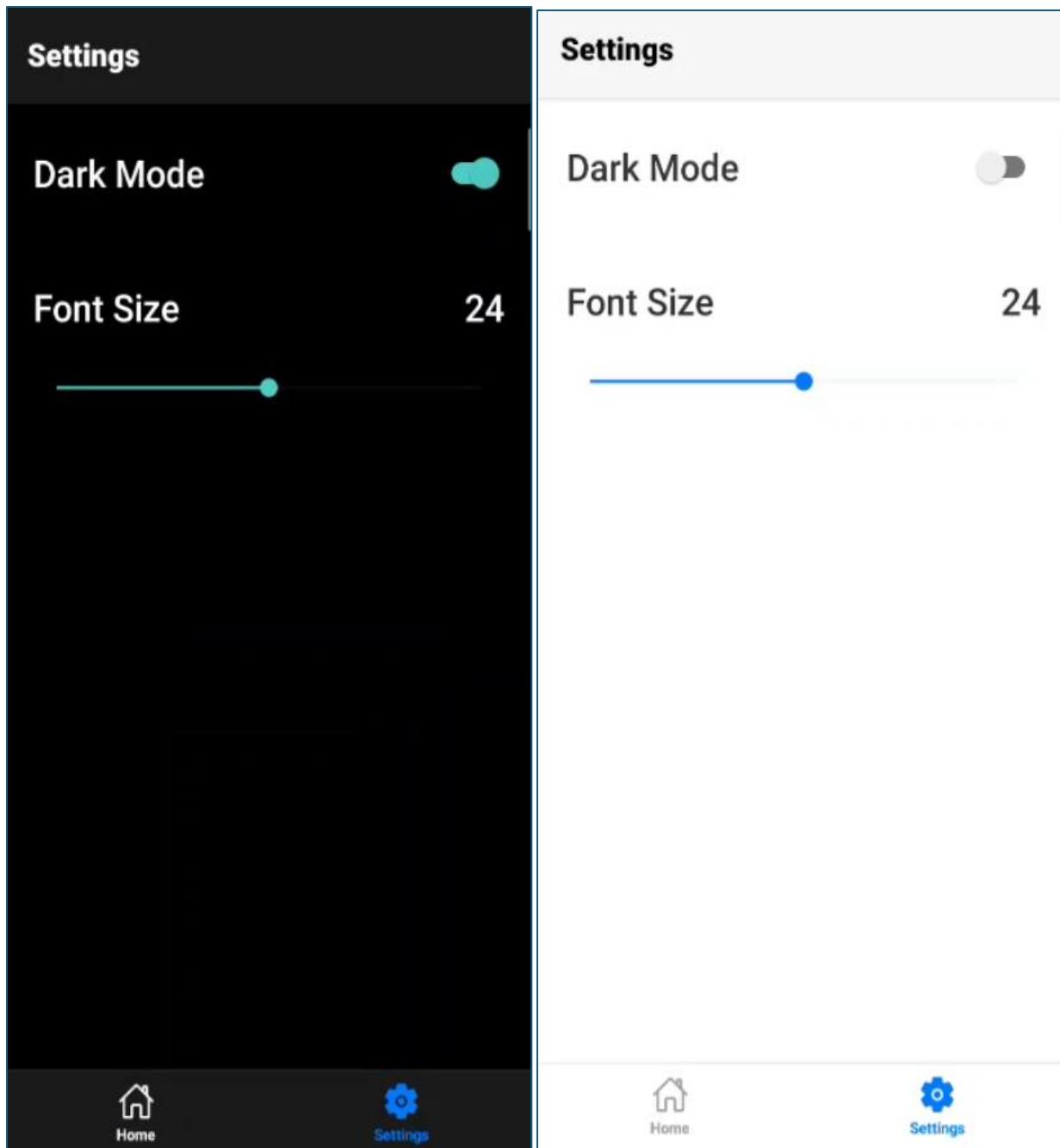


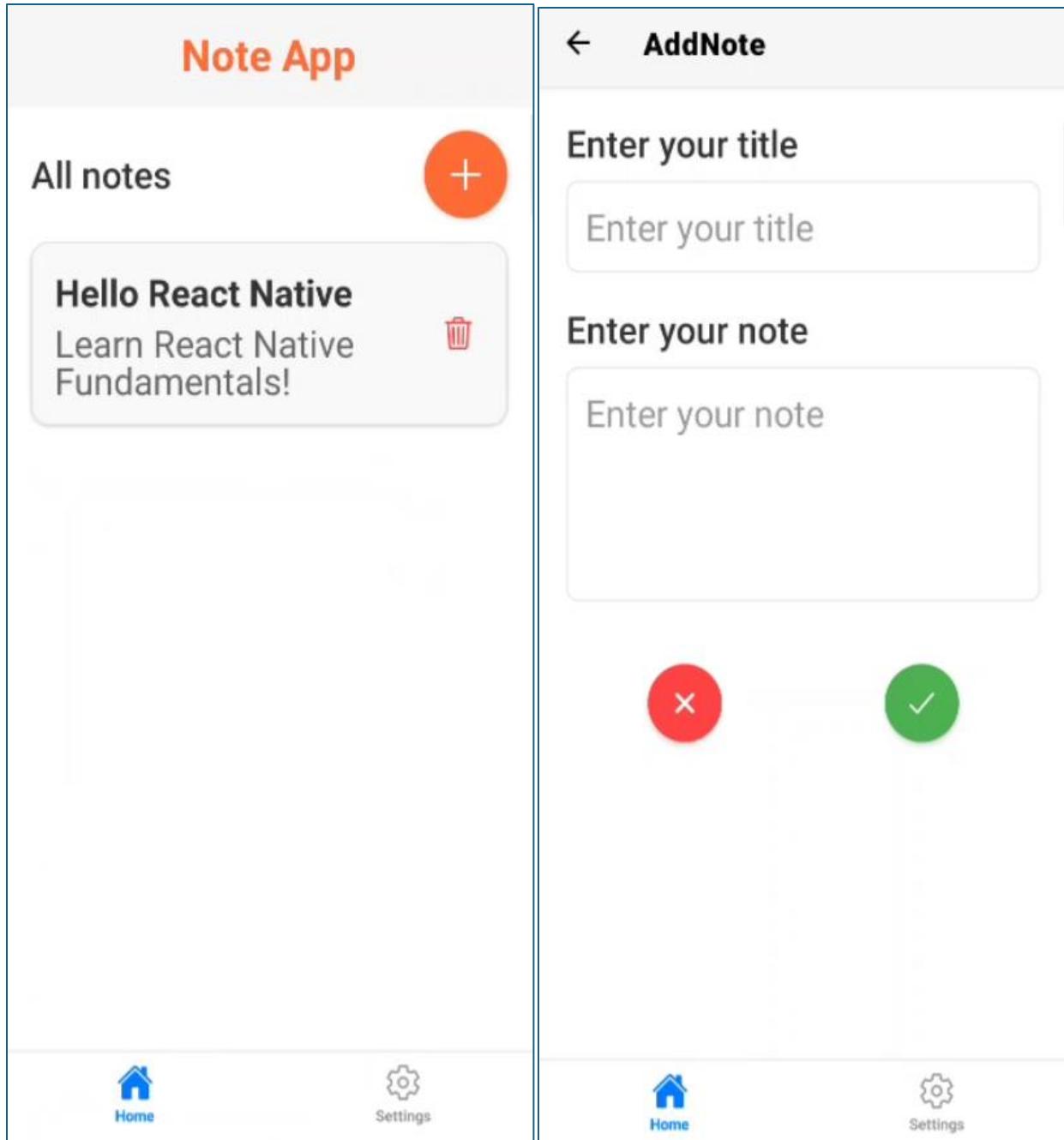
Công nghệ lập trình đa nền tảng cho ứng dụng di động - IE307.Q12

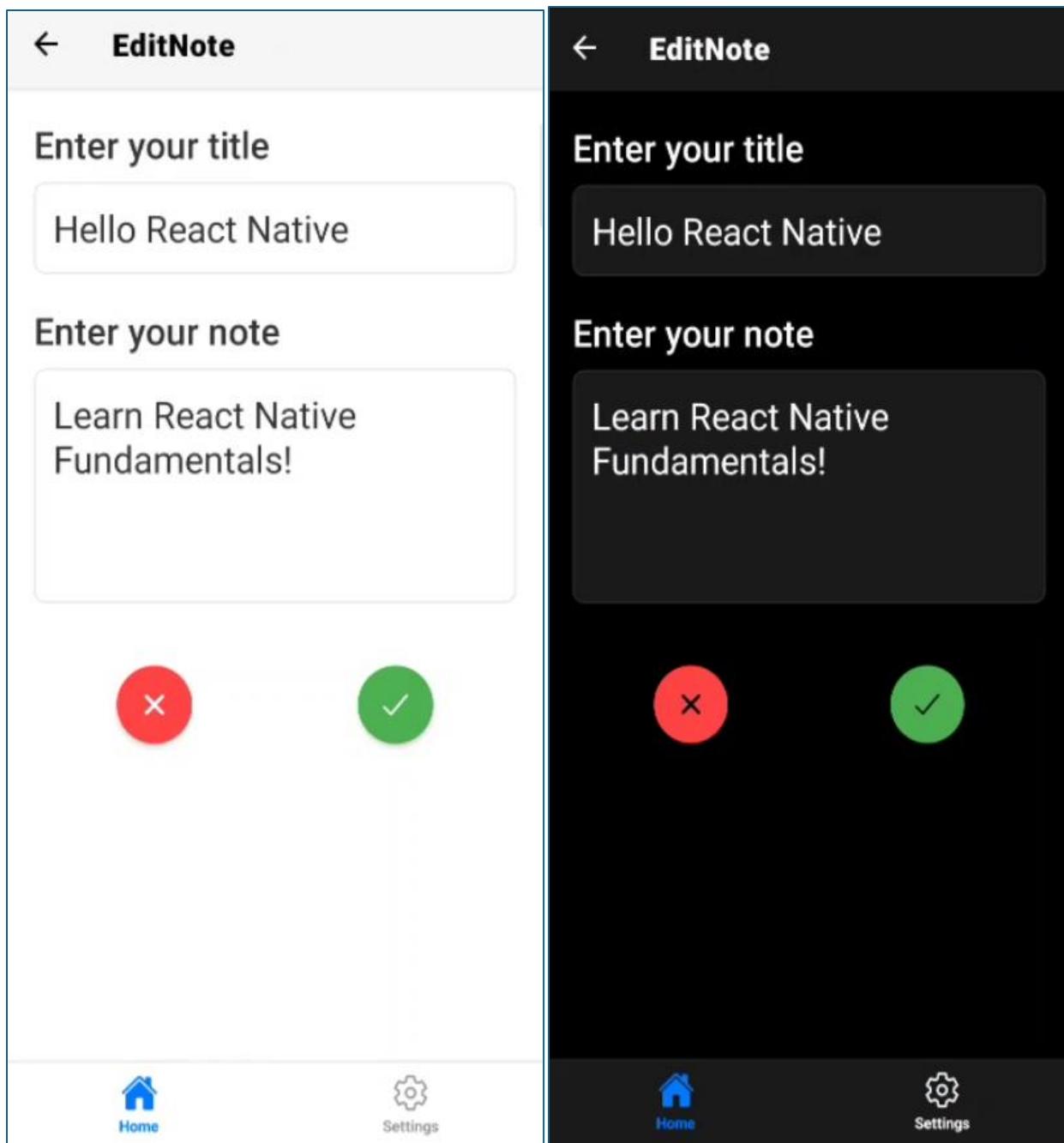












2.17. Video màn hình kết quả

- Link video màn hình kết quả:

[https://drive.google.com/file/d/1XvRPcrceu2E6RoeBOyuIA06y6KZW4fnA/view?usp=sharing](https://drive.google.com/file/d/1XvRPcrceu2E6RoeBOyuIA06y6KZW4fnA/view?usp=ssharing)

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