

MÔN: CÔNG NGHỆ LẬP TRÌNH ĐA NỀN TẢNG CHO ỨNG DỤNG DI ĐỘNG

BÀI TẬP THỰC HÀNH 2

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Bài 1: Settings and Feedback

1.1. Cấu trúc thư mục:

The screenshot shows the Visual Studio Code interface with the following details:

- Explorer View:** Shows the project structure:
 - Root folder: 21522804_BAI1
 - .expo
 - .vscode\react
 - assets
 - node_modules
 - src
 - components
 - post
 - actionPost.tsx
 - bottomPost.tsx
 - contentPost.tsx
 - headerPost.tsx
 - ListPost.tsx
 - postItem.tsx
 - shared
 - user
 - avatar.tsx
 - data
 - PostData.ts
 - models
 - interactProps.ts
 - PostContent.ts
 - PostItemProps.ts
 - status.ts
 - .gitignore
 - app.json
 - Code Editor:** The file App.tsx is open, showing the following code:

```
You, 54 seconds ago | 1 author (You)
1 // Phạm Hoài Vũ - 21522804
2 // App.tsx
3 import { StyleSheet, Text, View } from 'react-native';
4 import Header from './src/components/shared/Header';
5 import Posts from './src/components/post/ListPost';
6 export default function App() {
7   return (
8     <View style={styles.container}>
9       <Header/>
10      <Posts/>
11    </View>
12  );
13 }
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     backgroundColor: '#fff',
19     alignItems: 'center',
20     justifyContent: 'center',
21   },
22 });
23 }
```
 - Bottom Bar:** Includes tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, GITLENS, and COMMENTS. The TERMINAL tab is active.

Hình: Cấu trúc thư mục

1.2. Các file:

1.2.1. App.tsx

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER** sidebar:
 - Project root: 21522804_BAI1
 - .expo
 - .vscode\react
 - assets
 - node_modules
 - src
 - components
 - post
 - actionPost.tsx
 - bottomPost.tsx
 - contentPost.tsx
 - headerPost.tsx
 - ListPost.tsx
 - postItem.tsx
 - shared
 - user
 - avatar.tsx
 - data
 - PostData.ts
 - models
 - interactProps.ts
 - PostContent.ts
 - PostItemProps.ts
 - status.ts
 - .gitignore
 - app.json
 - App.tsx (selected)
 - babel.config.js
 - package-lock.json
 - package.json
 - tsconfig.json
 - TERMINAL**: PS D:\Nam4\monApp\TH\LAB2\21522804_Bai1>

Hình : App.tsx

1.2.2. Các component

1.2.2.1. actionPost.tsx, bottomPost.tsx, Option.tsx, Question.tsx

```

src > components > post > actionPost.tsx ...
You, 2 minutes ago | 1 author (You)
1 // Phạm Hoài Vũ - 21522804
2 // actionPost.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { View, Text, TouchableOpacity, StyleSheet } from "react-native";
5 import Icon from "react-native-vector-icons/FontAwesome";
6
7 You, 2 days ago | 1 author (You)
8 interface PostActionsProps {
9   status: { LIKE: boolean };
10  handleInteract: (nameText: string) => void;
11 }
12
13 const PostActions: React.FC<PostActionsProps> = ({ status, handleInteract }) => {
14   return (
15     <View style={styles.actionsContainer}>
16       <TouchableOpacity onPress={() => handleInteract("like")}>
17         <Text style={styles.actionText, status.LIKE ? styles.liked : styles.unliked}>
18           <Icon name="heart-o" color={status.LIKE ? "#e1056e" : "black"} />
19           <Text>Like</Text>
20         </Text>
21       </TouchableOpacity>
22       <TouchableOpacity onPress={() => handleInteract("comment")}>
23         <Text style={styles.actionText}>
24           <Icon name="comment-o" /> Comment
25         </Text>
26       </TouchableOpacity>
27       <TouchableOpacity onPress={() => handleInteract("share")}>
28         <Text style={styles.actionText}>
29           <Icon name="share-square" /> Share
30         </Text>
31       </TouchableOpacity>
32     </View>
33   );
34
35 const styles = StyleSheet.create({
36   actionsContainer: {
37     flexDirection: "row",
38     justifyContent: "space-between",
39   },
40   liked: {
41     color: "#e1056e",
42   },
43   unliked: {
44     color: "black",
45   },
46   actionText: {
47     fontSize: 16,
48     display: "flex",
49     alignItems: "center",
50   },
51 });
52 export default PostActions;

```

Hình: actionPost.tsx

```

src > components > post > bottomPost.tsx ...
You, 3 minutes ago | 1 author (You)
1 // Phạm Hoài Vũ - 21522804
2 // bottomPost.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { View, Text, StyleSheet } from "react-native";
5
6 You, 2 days ago | 1 author (You)
7 interface PostInteractionsProps {
8   like: number;
9   comment: number;
10  share: number;
11 }
12
13 const PostInteractions: React.FC<PostInteractionsProps> = ({ like, comment, share }) => {
14   return (
15     <View style={styles.interactContainer}>
16       <Text style={styles.likes}>{like} Likes</Text>
17       <Text style={styles.comments}>{comment} Comments</Text>
18       <Text style={styles.shares}>{share} Shares</Text>
19     </View>
20   );
21
22 const styles = StyleSheet.create({
23   interactContainer: {
24     flexDirection: "row",
25     justifyContent: "space-between",
26     marginBottom: 10,
27   },
28   likes: {
29     fontSize: 14,
30   },
31   comments: {
32     fontSize: 14,
33   },
34   shares: {
35     fontSize: 14,
36     color: "#999",
37   },
38 });
39 export default PostInteractions;

```

Hình: bottomPost.tsx

```
contentPost.tsx
src > components > post > contentPost.tsx < [o] styles
You, 4 minutes ago | 1 author (You)
1 // Phạm Hải Vũ - 21522804
2 // contentPost.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { View, Text, Image, StyleSheet } from "react-native";
5 import { PostContentProps } from "../../models/PostContent";
6
7 const PostContent: React.FC<PostContentProps> = ({ title, imgUrl }) => (
8   <View>
9     <Text style={styles.title}>{title}</Text>
10    <Image source={{ uri: imgUrl }} style={styles.postImage} />
11  </View>
12);
13
14 const styles = StyleSheet.create({
15   title: {
16     fontSize: 14,
17     marginBottom: 10,
18   },
19   postImage: {
20     width: "100%",
21     height: 400,
22     marginBottom: 10,
23     borderRadius: 10,
24   },
25 });
26
27 export default PostContent;
28

headerPost.tsx
src > components > post > headerPost.tsx < ...
You, 4 minutes ago | 1 author (You)
1 // Phạm Hải Vũ - 21522804
2 // headerPost.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { View, Text, StyleSheet } from "react-native";
5 import Avatar from "../../user/avatar";
6
7 You, 2 days ago | 1 author (You)
8 interface PostHeaderProps {
9   username: string;
10 }
11
12 const PostHeader: React.FC<PostHeaderProps> = ({ username }) => (
13   <View style={styles.header}>
14     <Avatar uri="https://i.pinimg.com/474x/a9/b8/43/a9b843b45b13d393a2e0c..."/>
15     <Text style={styles.username}>{username}</Text>
16   </View>
17 )
18
19 const styles = StyleSheet.create({
20   header: {
21     flexDirection: "row",
22     alignItems: "center",
23     marginBottom: 10,
24   },
25   username: {
26     fontWeight: "bold",
27     fontSize: 16,
28   };
29
30 export default PostHeader;
31
```

Hình: contentPost.tsx, headerPost.tsx

```
src > components > post > ListPost.tsx
src > components > post > postitem.tsx

ListPost.tsx
1 // File: Post.js
2 // Last modified: 2023-08-15 11:55:28
3 import { ScrollView, StyleSheet, View } from "react-native"
4 import PostItem from "./postitem"
5 import itemlist from "../../../../data/postData"
6 const Posts = () => {
7   return (
8     <ScrollView style={styles.container}>
9       {itemlist.map((item, index) => {
10         return <PostItem {...item} key={index} />
11       })}
12     </ScrollView>
13   )
14 }
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     width: "100%",
19   },
20 })
21 export default Posts;

postitem.tsx
1 // File: PostItem.js
2 // Last modified: 2023-08-15 11:55:28
3 import React from "react"
4 import { View, StyleSheet } from "react-native"
5 import PostHeader from "./headerPost";
6 import PostContent from "./contentPost";
7 import PostInteractions from "./bottomPost";
8 import PostActions from "./actionPost";
9
10 import { PostItemProps } from "../../../../models/postItemProps";
11 import { status as StatusType } from "../../../../models/status";
12 import { interactProps } from "../../../../models/interactProps";
13
14 const PostItem: React.FC<PostItemProps> = ({ username, title, imgUrl, likes, comments, status, interact, setInteract }) => {
15   const [status, setStatus] = React.useState<StatusType>({ LIKE: false });
16   const [interact, setInteract] = React.useState<interactProps>({ like: likes, comment: comments });
17
18   const handleInteract = (nameText: string) => {
19     if (nameText === "like") {
20       setStatus((prestate) => ({ ...prestate, LIKE: !prestate.LIKE }));
21       setInteract((prestate) => ({
22         ...prestate,
23         like: status.LIKE ? prestate.like - 1 : prestate.like + 1,
24       }));
25     }
26     const setInteract: (value: React.SetStateAction<interactProps>) => void =
27       if (nameText === "comment") setInteract((prestate) => ({ ...prestate, comment: prestate.comment + 1 }));
28     if (nameText === "share") setInteract((prestate) => ({ ...prestate, share: prestate.share + 1 }));
29   };
30
31   return (
32     <View style={styles.container}>
33       <PostHeader username={username} />
34       <PostContent title={title} imgUrl={imgUrl} />
35       <PostInteractions like={interact.like} comment={interact.comment} share={interact.share} />
36       <View style={styles.divider} />
37       <PostActions status={status} handleInteract={handleInteract} />
38     </View>
39   );
40 }
41 const styles = StyleSheet.create({
42   container: {
43     padding: 10,
44     backgroundColor: "#f8f8f8",
45   },
46 });

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS
PS D:\Name\monApp\TH\LAB2\21522804_Bail> 
```

Hình: *ListPost.tsx, postItem.tsx*

1.2.2.2. Avatar.tsx

avatar.tsx

```
You, 11 hours ago | 1 author (You)
1 // Phạm Hoài Vũ - 21522804
2 // avatar.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { Image, View, StyleSheet } from "react-native";
5
6 You, 3 days ago | 1 author (You)
7 interface AvatarProps {
8   uri: string;
9 }
10 const Avatar: React.FC<AvatarProps> = ({ uri }) => (
11   <View style={styles.avatarContainer}>
12     <Image source={{ uri }} style={styles.avatar} />
13   </View>
14 );
15
16 const styles = StyleSheet.create({
17   avatarContainer: {
18     marginRight: 10,
19   },
20   avatar: {
21     width: 50,
22     height: 50,
23     borderRadius: 25
24 });
25 );
26
27 export default Avatar;
```

D:\Nam4\monApp\TH\LAB2\21522804_Bai1\src\models\interactProps.ts

Hình: *avatar.tsx*

1.3. Các interface

```
TS interactProps.ts
src > models > TS interactProps.ts > interactProps
1 // Phạm Hoài Vũ - 21522804
2 You, 11 hours ago | 1 author (You)
3 export interface interactProps {
4   like: number
5   comment: number
6   share: number
7 }

TS PostContentProps.ts
src > models > TS PostContentProps > ...
1 // Phạm Hoài Vũ - 21522804
2 You, 11 hours ago | 1 author (You)
3 export interface PostContentProps {
4   title: string;
5   imgUrl: string;
6 }

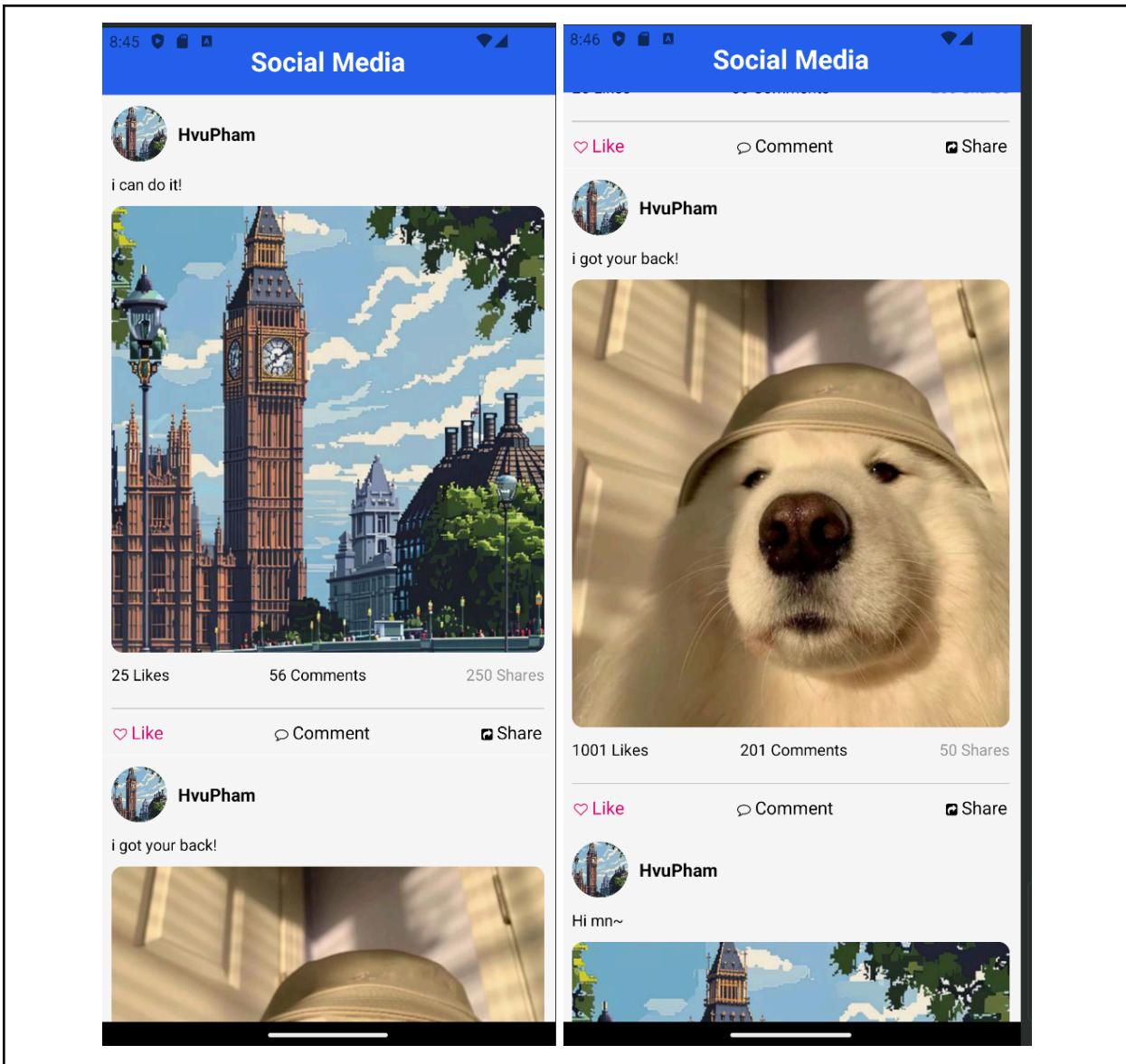
TS PostItemProps.ts
src > models > TS PostItemProps.ts > PostItemProps
1 // Phạm Hoài Vũ - 21522804
2 You, 11 hours ago | 1 author (You)
3 export interface PostItemProps {
4   username: string
5   title: string
6   imgUrl: string
7   likes: number
8   comments: number
9   shares: number
10 }

TS status.ts
src > models > TS status.ts > status
1 // Phạm Hoài Vũ - 21522804
2 You, 11 hours ago | 1 author (You)
3 export interface status {
4   LIKE: boolean
5 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

PS D:\Nam4\monApp\TH\LAB2\21522804_Bail>

1.4. Màn hình ứng dụng



1.5. Demo

Linh drive:

https://drive.google.com/drive/folders/1q2nAA7VmF8yfhePG7PrMLAHfWCF_nd5m?usp=sharing

Bài 2: Settings and Feedback

2.1. Cấu trúc thư mục:

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left lists project files including .expo, .vscode, assets, node_modules, src\components (containing FeedBack.tsx, HeaderViewer.tsx, Option.tsx, Questions.tsx), .gitignore, app.json, App.tsx (selected and has a 'M' status indicator), babel.config.js, package-lock.json, package.json, and tsconfig.json. The Editor tab on the right displays the file App.tsx with the following code:

```
You, 2 minutes ago | 1 author (You)
1 // Phạm Hoài Vũ -21522804
2 // App.tsx
3 import React from "react"
4 import { SafeAreaView, Te
5 import HeaderViewer from
6 import Option from "./src
7 import FeedBack from "./src
8 import Questions from "./src
9
10 export type themState = [
11   STATE: string;
12   BACKGROUND_COLOR: string;
13   TEXT_COLOR: string;
14 ];
15
16 const light = {
17   STATE: "light",
18   BACKGROUND_COLOR: "#ffff
```

Hình: Cấu trúc thư mục

2.2. Các file:

2.2.1. App.tsx

The screenshot shows a code editor with two tabs open: "App.tsx" and "App.tsx M".

App.tsx:

```
// Pham Hoai VG - 21522804
// App.tsx
You, 1 minute ago | 1 author (You)
1 // Pham Hoai VG - 21522804
2
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { SafeAreaView, Text, View, StyleSheet } from "react-native";
5 import HeaderViewer from "./src/components/HeaderViewer";
6 import Option from "./src/components/Option";
7 import Feedback from "./src/components/Feedback";
8 import Questions from "./src/components/questions";
9
10 export type themeState = {
11   STATE: string;
12   BACKGROUND_COLOR: string;
13   TEXT_COLOR: string;
14 };
15
16 const light = {
17   STATE: "light",
18   BACKGROUND_COLOR: "#fffff",
19   TEXT_COLOR: "#000000",
20 };
21
22 const dark = {
23   STATE: "dark",
24   BACKGROUND_COLOR: "#000000",
25   TEXT_COLOR: "#fffff",
26 };
27
28 export default function App() {
29   const [theme, setTheme] = React.useState<themeState>(light);
30   const [isNotifications, setIsNotifications] = React.useState<boolean>(false);
31   const [feedbackList, setFeedbackList] = React.useState<string[]>([ ]);
32
33   const handleTheme = () => {
34     setTheme((preState) => (preState.STATE === "light" ? light : dark));
35   };
36
37   const handleSetNotifications = () => {
38     setIsNotifications((preState) => !preState);
39   };
40
41   const handleSetFeedbackList = (feedbackItem: string) => {
42     setFeedbackList((preState) => [...preState, feedbackItem]);
43   };
44 }
```

App.tsx M:

```
export default function App() {
  const handleSetFeedbackList = (feedbackItem: string) => {
    setFeedbackList((preState) => [...preState, feedbackItem]);
  };

  return (
    <SafeAreaView style={[ styles.flex, { backgroundColor: theme.BACKGROUND_COLOR } ]}>
      <View style={[ styles.container, { backgroundColor: theme.BACKGROUND_COLOR } ]}>
        <HeaderViewer theme={theme} />
        <option
          theme={theme}
          onSetTheme={handleTheme}
          You, 2 days ago via PR #7 + push lab2 ба2
          isNotifications={isNotifications}
          onSetIsNotifications={handleSetIsNotifications}
        />
        <Feedback
          theme={theme}
          onSetFeedbackList={handleSetFeedbackList}
          isNotifications={isNotifications}
        />
        <questions feedbackList={feedbackList} theme={theme} />
      </View>
    </SafeAreaView>
  );
}

const styles = StyleSheet.create({
  flex: {
    flex: 1,
  },
  container: {
    flex: 1,
  },
  innercontainer: {
    margin: 16,
  },
});
```

Bottom navigation bar:

- PROBLEMS
- OUTPUT
- DEBUG CONSOLE
- TERMINAL
- PORTS
- GITLENS
- COMMENTS

File path: PS D:\Wam4monApp\TH\LAB2\21522804_Ba2> |

Hình : App.tsx

2.2.2. Các component (FeedBack.tsx, HeaderViewer.tsx, Option.tsx, Question.tsx)

The screenshot shows a code editor with two tabs open. The left tab is titled 'FeedBack.tsx' and contains the following code:

```
src > components > FeedBack.tsx ...
1 // Phan Hoai Vũ -21522804
2 // FeedBack.tsx
3 import React, { useState } from "react"; 6.9k (gzipped: 2.7k)
4 import {
5   Alert,
6   Keyboard,
7   Text,
8   TextInput,
9   TouchableOpacity,
10  View,
11  StyleSheet,
12 } from "react-native";
13 import { themeState } from "../../App";
14
15 type FeedbackProps = {
16   theme: themeState;
17   isNotifications: boolean;
18   onSetFeedbackList: (feedbackItem: string) => void;
19 };
20
21 const FeedBack: React.FC<FeedbackProps> = ({ theme, isNotifications, onSetFeedbackList })
22 const [text, setText] = useState<string>("");
23
24 const createNotificationAlert = () => {
25   Alert.alert("thank you for your feedback!", "", [{ text: "Ok" }]);
26 };
27
28 return (
29   <View
30     style={styles.container}
31     onTouchStart={() => Keyboard.dismiss()}
32   >
33     <Text style={[styles.heading, { color: theme.TEXT_COLOR }]>Feedback:</Text>
34     <View style={[styles.inputContainer, { bordercolor: theme.STATE === "light" ? "#ccc" : "#fff" }]}
35       <TextInput
36         keyboardType="text"
37         placeholder="Your feedback here..."
38         style={styles.TextInput, { color: theme.TEXT_COLOR }}
39         placeholderTextColor={theme.STATE === "light" ? "#ccc" : "#fff"}
40         KeyboardType="default"
41         onChangeText={(text) => setText(text)}
42         autoFocus={false}
43         value={text}
44       />
45     </View>
46     <TouchableOpacity
```

The right tab is also titled 'FeedBack.tsx' and contains the following code:

```
src > components > FeedBack.tsx ...
21 const FeedBack: React.FC<FeedbackProps> = ({ theme, isNotifications, onSetFeedbackList })
22
23   </View>
24   <TouchableOpacity
25     onPress={() => {
26       if (text.trim()) {
27         onSetFeedbackList(text);
28         setText("");
29         if (isNotifications) createNotificationAlert();
30       }
31     }
32   }
33   style={styles.button}
34   >
35     <Text style={styles.buttonText}>SEND FEEDBACK</Text>
36   </TouchableOpacity>
37 </View>
38 );
39
40 const styles = StyleSheet.create({
41   container: {
42     flexDirection: "column",
43     gap: 16,
44   },
45   heading: {
46     fontSize: 20, // tuong duong text-xl
47     fontWeight: "bold",
48   },
49   inputContainer: {
50     borderwidth: 1,
51     borderRadius: 8,
52     padding: 8,
53     height: 144,
54   },
55   TextInput: {
56     flex: 1,
57     fontsize: 16,
58   },
59   button: {
60     alignItems: "center",
61     justifyContent: "center",
62     paddingVertical: 12,
63     paddingHorizontal: 24,
64     backgroundColor: "#1E90FF", // blue-500
65     borderRadius: 8,
66   },
67   buttonText: {
68     color: "#fff",
69   }
70 });
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
```

The code editor interface includes tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, GITLENS, and COMMENTS. At the bottom, there are tabs for PowerShell, a terminal window, and other developer tools.

Hình: FeedBack.tsx

```
You, 8 minutes ago | 1 author (You)
1 // Phạm Hoài Vũ -21522804
2 // HeaderViewer.tsx
3 import React from "react"; 6.9K (gzipped: 2.7K)
4 import { View, Text, Image, StyleSheet } from "react-native";
5 import { themState } from "../../App";
6
7 type HeaderViewerProps = {
8   theme: themState;
9 };
10
11 const HeaderViewer: React.FC<HeaderViewerProps> = ({ theme }) => {
12   return (
13     <View style={styles.container}>
14       <Image
15         style={styles.logo}
16         source={require("../../assets/logo.png")}
17       />
18       <Text style={[styles.title, { color: theme.TEXT_COLOR }]}>React Native
19     </View>
20   );
21 }
22
23 const styles = StyleSheet.create({
24   container: {
25     flexDirection: "column",
26     alignItems: "center",
27     justifyContent: "center",
28     marginVertical: 20, // khoảng cách giữa các thành phần
29   },
30   logo: {
31     width: 120,
32     height: 120,
33     borderRadius: 60,
34   },
35   title: {
36     fontSize: 18,
37     fontWeight: "bold",
38   }
39 });
40
41 export default HeaderViewer;
42
```

Hình: .HeaderViewer.tsx

```
You, 8 minutes ago | 1 author (You)
1 // Phạm Hoài Vũ -21522804
2 // Option.tsx
3 import React from "react"; 6.9K (gzipped: 2.7K)
4 import { View, Text, Switch, StyleSheet } from "react-native";
5 import { themState } from "../../App";
6
7 type OptionProps = {
8   theme: themState;
9   onSetTheme: () => void;
10  isNotifications: boolean;
11  onSetIsNotifications: () => void;
12 };
13
14 const Option: React.FC<OptionProps> = ({ theme, onSetTheme, isNotifications, onSetIsNotifications }) => {
15   return (
16     <View style={styles.container}>
17       <View style={styles.optionRow}>
18         <Text style={[styles.optionText, { color: theme.TEXT_COLOR }]}>Nhắc
19         <Switch
20           value={theme.STATE === "light" ? false : true}
21           onValueChange={onSetTheme}
22         />
23       </View>
24       <View style={styles.optionRow}>
25         <Text style={[styles.optionText, { color: theme.TEXT_COLOR }]}>Thay
26         <Switch
27           value={isNotifications}
28           onValueChange={onSetIsNotifications}
29         />
30       </View>
31     </View>
32   );
33 }
34
35 const styles = StyleSheet.create({
36   container: {
37     flexDirection: "column",
38     padding: 8,
39     marginVertical: 8,
40   },
41   optionRow: {
42     flexDirection: "row",
43     justifyContent: "space-between",
44     alignItems: "center",
45     marginVertical: 4,
46   },
47   optionText: {
48     fontSize: 18, // Thay thế cho text-lg
49   },
50 });
51
52 export default Option;
53
```

Hình: Option.tsx

```
You 9 minutes ago | 1 author (You)
1 // Phạm Hồbildung Võ -21522804
2 // Qa.tsx
3 import React from "react"; 6.9k (gzipped: 2.7K)
4 import { View, Text, FlatList, StyleSheet } from "react-native";
5 import { themState } from "../../App";
6
7 type QaProps = {
8   theme: themState;
9   feedbackList: string[];
10 };
11
12 const Item: React.FC<{ item: string; textColor: string }> = ({ item, text
13   return (
14     <View style={styles.itemContainer}>
15       <Text style={[styles.itemText, { color: textColor }]}>{item}</Text>
16     </View>
17   );
18 };
19
20 const Questions: React.FC<QaProps> = ({ theme, feedbackList }) => {
21   return (
22     <View style={styles.container}>
23       <Text style={[styles.header, { color: theme.TEXT_COLOR }]}>
24         Frequently Asked Questions
25       </Text>
26       <FlatList
27         data={feedbackList}
28         renderItem={({ item }) => <Item item={item} textColor={theme.TEXT
29           keyExtractor={({ item, index }) => index.toString()}
30         />
31       </View>
32     );
33   );
34 }
35 const styles = StyleSheet.create({
36   container: {
37     marginTop: 8,
38   },
39   header: {
40     fontSize: 20, // Thay cho text-x1
41     fontWeight: "bold",
42     marginBottom: 8,
43   },
44   itemContainer: {
45     marginVertical: 4,
46   },
47   itemText: {
48     fontSize: 16,
49   },
50 });
51
52 export default Questions;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

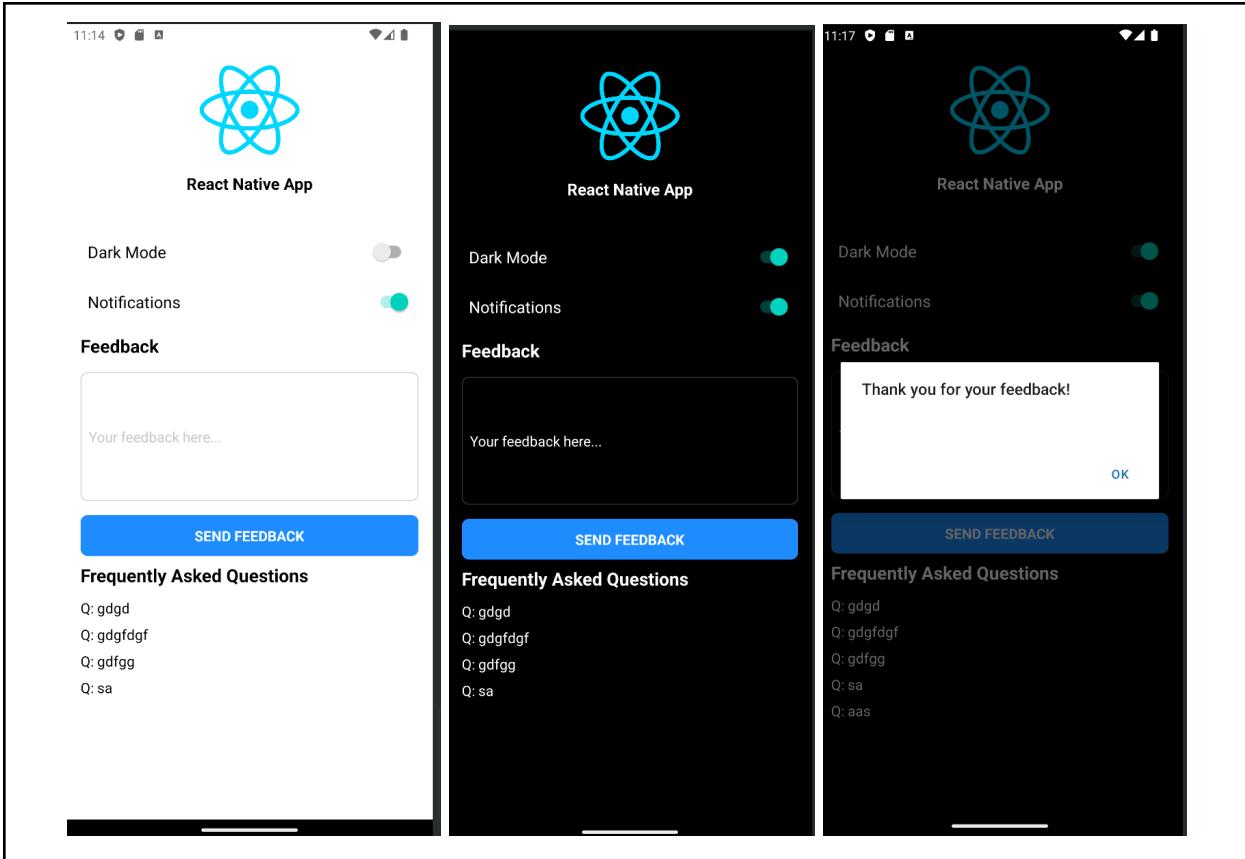
PS D:\Nam4\monApp\TH\LAB2\21522804_Bai2> []

powershell + + ☰ ... ^ x

⌚ You, 9 minutes ago Ln 1, Col 1 Spaces: 2 UTF-8 CRLF ⓘ TypeScript JSX ⓘ Go Live ⓘ Tabnine: Sign-in is required ⓘ Prettier ⓘ

Hình: Question.tsx

2.3. Màn hình ứng dụng



2..4. Demo

Linh drive:

https://drive.google.com/drive/folders/1q2nAA7VmF8yfhePG7PrMLAHfWCF_nd5m?usp=sharing

Bài 3: Stack Navigation

3.1. Cấu trúc thư mục:

The screenshot shows the VS Code interface with the following details:

- EXPLORER** view: Shows the project structure. The `src` folder is expanded, revealing subfolders like `context`, `pages`, `auth`, `mainScreen`, `provider`, and `routes`. Inside `src/pages/auth`, files `LoginScreen.tsx` and `RegisterScreen.tsx` are listed.
- EDITOR** view: Displays the `App.tsx` file content. The code uses `React` and `Provider` from `react-native` and `react-navigation` respectively. It defines a `Screen` component and wraps it in an `AppContextProvider`.
- COMMAND PALETTES**: PS D:\Nam4\monApp\TH\LAB2\21522804_Bai1>

Hình: Cấu trúc thư mục

3.2. Các file:

3.2.1. App.tsx

```
You, 1 second ago | 1 author (You)
1 // Phạm Hải Vũ MSSV:21522804
2 // Pham.Hai.Vu@msv.edu.vn
3 import React from "react" // react-native
4 import { Provider } from "react-native"
5 import { Screen } from "./src/routes/routes"
6 export default function App() {
7   return (
8     <Provider>
9       <Screen />
10    </Provider>
11  )
12}
13
```

```

    You, 1 second ago | 1 author (You)
1 // Phạm Hoài Vũ MSSV:21522804
2 //App.tsx: You, 1 second ago + Uncommitted changes
3 import React from "react" 6.9k (gzipped: 2.7k)
4 import { AppContextProvider } from "./src/provider/AppContextProvider"
5 import { Screen } from "./src/routes/routes"
6 export default function App() {
7   return (
8     <AppContextProvider>
9       <Screen />
10      </AppContextProvider>
11    )
12  }
13

```

Hình : App.tsx

3.2.2. Các màn hình

```

    You, 1 second ago | 1 author (You)
1 // Phạm Hoài Vũ MSSV:21522804
2 // LoginScreen.tsx
3 import { AntDesign, Feather, FontAwesome5 } from "@expo/vector-icons";
4 import { useNavigation } from "@react-navigation/native"; 9.1k (gzipped: 3.3k)
5 import React, { useState, useContext } from "react"; 6.9k (gzipped: 2.7k)
6 import {
7   SafeAreaView,
8   View,
9   Text,
10  TextInput,
11  TouchableOpacity,
12  Alert,
13  StyleSheet,
14 } from "react-native";
15 import { AppContext } from "../../context/AppContextProps ";
16
17 export const LoginScreen = () => {
18   const navigation = useNavigation();
19   const appContext = useContext(AppContext);
20   const [email, setEmail] = useState<string>("");
21   const [password, setPassword] = useState<string>("");
22
23   const AlertContent = () =>
24     Alert.alert("Incorrect email or password", "", [
25       {
26         onPress: () => (
27           appContext.setIsLoggedIn("hasError");
28         ),
29       },
30     ]);
31
32   const handleSubmit = () => {
33     if (appContext.data.some((e) => e.email === email && e.password === password)) {
34       AlertContent();
35       console.log("hasError");
36     } else {
37       appContext.setIsLoggedIn("success");
38       console.log("success");
39     }
40   };
41
42 };
43
44 return (
45   <SafeAreaView style={styles.safeArea}>

```

Hình: LoginScreen.tsx (hình 1)

The screenshot shows a code editor with two tabs open. The left tab is 'LoginScreen.tsx' and the right tab is 'styles.tsx'. The 'LoginScreen.tsx' file contains functional component code that renders a sign-up screen with text, a button, and social login links. The 'styles.tsx' file contains a StyleSheet object with various styles for components like 'signUpText', 'forgotPasswordText', 'loginButton', etc.

```
src > pages > auth > LoginScreen.tsx
17 export const LogInScreen = () => {
18   return (
19     <SafeAreaView style={styles.safeArea}>
20       <Text style={styles.signUpText}>
21         Don't have an account?{" "}
22         <Text style={styles.signInLink}>
23           onPress={() => navigation.navigate("signUp" as never)}
24           style={styles.signInLink}
25           sign up here!
26         </Text>
27       </Text>
28       <View style={styles.container}>
29         <Image style={styles.logoContainer} source={require("../assets/logo.png")}/>
30         <Text style={styles.welcomeText}>
31           Welcome to{" "}
32           <Text style={styles.signInText}>
33             sign up
34           </Text>
35           {" "}
36           <Text style={styles.signInText}>
37             or
38           </Text>
39           <Text style={styles.signInText}>
40             log in
41           </Text>
42         </Text>
43       </View>
44     </SafeAreaView>
45   );
46 }
47
48 const styles = StyleSheet.create({
49   safeArea: {
50     flex: 1,
51   },
52   container: {
53     flex: 1,
54     alignItems: "center",
55     justifyContent: "center",
56     paddingHorizontal: 32,
57   },
58   logoContainer: {
59     width: 80,
60     height: 80,
61     backgroundColor: "black",
62     borderRadius: 40,
63     alignItems: "center",
64     justifyContent: "center",
65     marginBottom: 16,
66   },
67   welcomeText: {
68     fontSize: 24,
69     fontWeight: "bold",
70     marginBottom: 16,
71   },
72   inputContainer: {
73     width: "100%",
74   },
75   inputWrapper: {
76     flexDirection: "row",
77     alignItems: "center",
78   },
79   signUpText: {
80     color: "#2563eb",
81     margin: 10,
82   },
83   forgotPasswordText: {
84     color: "#fb7185",
85     margin: 10,
86   },
87   loginButton: {
88     padding: 12,
89     backgroundColor: "#f97316",
90     borderRadius: 8,
91     margin: 10,
92     margin: 10,
93     margin: 10,
94     margin: 10,
95     margin: 10,
96     margin: 10,
97     margin: 10,
98     margin: 10,
99     margin: 10,
100    margin: 10,
101    margin: 10,
102    margin: 10,
103    margin: 10,
104    margin: 10,
105    margin: 10,
106    margin: 10,
107    margin: 10,
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116    margin: 10,
117    margin: 10,
118    margin: 10,
119    margin: 10,
120    margin: 10,
121    margin: 10,
122    margin: 10,
123    margin: 10,
124    margin: 10,
125    margin: 10,
126    margin: 10,
127    margin: 10,
128  },
129  socialLoginContainer: {
130   alignItems: "center",
131   margin: 10,
132  },
133  socialLoginText: {
134   fontSize: 16,
135   fontWeight: "bold",
136   margin: 10,
137   margin: 10,
138   margin: 10,
139   margin: 10,
140   margin: 10,
141   margin: 10,
142   margin: 10,
143   margin: 10,
144   margin: 10,
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149   margin: 10,
150   margin: 10,
151   margin: 10,
152   margin: 10,
153   margin: 10,
154   margin: 10,
155   margin: 10,
156   margin: 10,
157   margin: 10,
158   margin: 10,
159   margin: 10,
160   margin: 10,
161   margin: 10,
162   margin: 10,
163   margin: 10,
164   margin: 10,
165   margin: 10,
166   margin: 10,
167   margin: 10,
168   margin: 10,
169   margin: 10,
170   margin: 10,
171   margin: 10,
172   margin: 10,
173   margin: 10,
174   margin: 10,
175   margin: 10,
176   margin: 10,
177   margin: 10,
178  },
179  socialIconsContainer: {
180   flexDirection: "row",
181   alignItems: "center",
182   justifyContent: "center",
183  },
184  signUpText: {
185   textAlign: "center",
186   margin: 10,
187   margin: 10,
188  },
189  forgotPasswordText: {
190   color: "#2563eb",
191   margin: 10,
192  },
193  loginButton: {
194   padding: 12,
195   backgroundColor: "#f97316",
196   borderRadius: 8,
197   margin: 10,
198   margin: 10,
199   margin: 10,
200   margin: 10,
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580   margin: 10,
581   margin: 10,
582   margin: 10,
583   margin: 10,
584   margin: 10,
585   margin: 10,
586   margin: 10,
587   margin: 10,
588   margin: 10,
589   margin: 10,
590   margin: 10,
591   margin: 10,
592   margin: 10,
593   margin: 10,
594   margin: 10,
595   margin: 10,
596   margin: 10,
597   margin: 10,
598   margin: 10,
599   margin: 10,
599 });
600
601 export default LogInScreen;
```

Hình: LoginScreen.tsx (hình 2)

```

src > pages > auth > RegisterScreen.tsx > styles > loginLink
You 4 seconds ago | author (You)
1 // Pham Hoai Vu MSSV:21522804
2 // SigninScreen.tsx
3 import { AntDesign, Feather, FontAwesome5 } from '@expo/vector-icons';
4 import { useNavigation } from '@react-navigation/native';
5 import React from 'react';
6 import {
7   SafeAreaView,
8   TextInput,
9   TouchableOpacity,
10  Text,
11  View,
12  StyleSheet,
13 } from 'react-native';
14
15 export const RegisterScreen = () => {
16   const navigation = useNavigation();
17   return (
18     <SafeAreaView style={styles.safeArea}>
19       <View style={styles.container}>
20         <View style={styles.logoContainer}>
21           <FontAwesome5 name="react" size={52} color="#61dbfb" />
22         </View>
23         <Text style={styles.title}>Create New Account</Text>
24         <View style={styles.inputContainer}>
25           <View style={styles.inputWrapper}>
26             <AntDesign name="user" size={24} />
27             <TextInput style={styles.input} placeholder="Enter username" />
28           </View>
29           <View style={styles.inputWrapper}>
30             <Feather name="mail" size={24} />
31             <TextInput style={styles.input} placeholder="Enter email" />
32           </View>
33           <View style={styles.inputWrapper}>
34             <AntDesign name="lock1" size={24} />
35             <TextInput style={styles.input} placeholder="Enter password" sec/>
36           </View>
37           <View style={styles.inputWrapper}>
38             <AntDesign name="lock1" size={24} />
39             <TextInput style={styles.input} placeholder="Confirm password" />
40           </View>
41           <Touchableopacity style={styles.createButton}>
42             <text style={styles.createButtonText}>CREATE</Text>
43           </Touchableopacity>
44         </View>
45       <Text style={styles.footerText}>

```



```

src > pages > auth > RegisterScreen.tsx > styles > loginLink
15 export const RegisterScreen = () => {
42   <text style={styles.createButtonText}>CREATE</Text>
43   </Touchableopacity>
44   <View>
45     <text style={styles.footerText}>
46       Already have an account? (>)
47     <text onPress={() => navigation.navigate("LogIn" as never)} style={styles.loginLink}>
48       Log In Now
49     </Text>
50   </Text>
51   </View>
52   </View>
53 </SafeAreaView>
54 };
55
56 const styles = StyleSheet.create({
57   safeArea: {
58     flex: 1,
59   },
60   container: {
61     flex: 1,
62     alignItems: "center",
63     justifyContent: "center",
64     paddingHorizontal: 32,
65   },
66   logoContainer: {
67     width: 80,
68     height: 80,
69     backgroundColor: "black",
70     borderRadius: 40,
71     alignItems: "center",
72     justifyContent: "center",
73     marginBottom: 16,
74   },
75   title: {
76     fontSize: 24,
77     fontWeight: "bold",
78     marginBottom: 16,
79   },
80   inputContainer: {
81     width: "100%",
82   },
83   footerText: {
84     color: "#61dbfb",
85   }
86 },
87
88
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99
100
101
102
103
104
105
106
107
108
109
110
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src > pages > mainScreen > HomeScreen.tsx ...
1 // Phạm Hoài Vũ MSSV:21522804
2 // Home.tsx You, last week via PR #7 * add bai3 (lab2)
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { SafeAreaView, View, Text, StyleSheet } from "react-native";
5
6 export const Home = () => {
7   return (
8     <SafeAreaView style={styles.safeArea}>
9       <View style={styles.container}>
10         <Text>Home Screen</Text>
11       </View>
12     </SafeAreaView>
13   );
14 };
15
16 const styles = StyleSheet.create({
17   safeArea: {
18     flex: 1,
19   },
20   container: {
21     flex: 1,
22     alignItems: "center",
23     justifyContent: "center",
24   },
25 });
26
27 export default Home;
28

```



```

src > pages > mainScreen > ProfileScreen.tsx ...
1 // Phạm Hoài Vũ MSSV:21522804
2 // Profile.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { SafeAreaView, View, Text, TouchableOpacity, StyleSheet } from "react-native";
5 import { ApplicationContext } from "../../context/AppContextProps";
6
7 export const Profile = () => {
8   const appContext = React.useContext(ApplicationContext);
9
10  const handleLogOut = () => {
11    appContext.setIsLoggedIn("idle");
12  };
13
14  return (
15    <SafeAreaView style={styles.safeArea}>
16      <View style={styles.container}>
17        <Text>Profile Screen</Text>
18        <TouchableOpacity onPress={handleLogOut}>
19          <Text style={styles.logoutText}>Log Out</Text>
20        </TouchableOpacity>
21      </View>
22    </SafeAreaView>
23  );
24
25
26 const styles = StyleSheet.create({
27   safeArea: {
28     flex: 1,
29   },
30   container: {
31     flex: 1,
32     alignItems: "center",
33     justifyContent: "center",
34   },
35   logoutText: {

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

PS D:\Nam4\monApp\TH\LAB2\21522804_Bai3> []

+ v ... ^ x

- node powershell

Hình: HomeScreen.tsx, ProfileScreen.tsx

3.2.3. Context

The screenshot shows a code editor in VS Code with the file `AppContextProps.ts` open. The code defines a type `AppContextProps` for a React context provider. It includes properties for user data, login status, and a dispatch function for updating the state. The code is annotated with comments and imports from the `react` library.

```
You, last week | 1 author (You)
1 // Phạm Hoài Vũ MSSV:21522804
2 import React from "react" 6.9k (gzipped: 2.7k)
3 type AppContextProps = {
4   data: {
5     email: string
6     password: string
7   }[]
8   isLoggedIn: "idle" | "success" | "hasError"
9   setIsLoggedIn: React.Dispatch<React.SetStateAction<"idle" | "success" | "hasError">
10  >
11 }
12 }
13 export const AppContext = React.createContext<AppContextProps | null>(null)
```

The terminal below shows a PowerShell session with the command `PS D:\Nam4\monApp\TH\LAB2\21522804_Bai3>`.

Hình: `AppContextProps.ts`

3.2.4. Provider

Hình: AppContextProvider.tsx

TS interactProps.ts

```
src > models > TS interactProps.ts > interactProps
You, 11 hours ago | 1 author (You)
1 // Phạm Hải Vũ - 21522804
You, 3 days ago | 1 author (You)
2 export interface interactProps {
3   like: number
4   comment: number
5   share: number
6 }
```

TS PostContent.ts

```
src > models > TS PostContent.ts > ...
You, 11 hours ago | 1 author (You)
1 // Phạm Hải Vũ - 21522804
You, 11 hours ago | 1 author (You)
2 export interface PostContentProps {
3   title: string;
4   imgUrl: string;
5 }
```

TS PostItemProps.ts

```
src > models > TS PostItemProps.ts > PostItemProps
You, 11 hours ago | 1 author (You)
1 // Phạm Hải Vũ - 21522804
You, 3 days ago | 1 author (You)
2 export interface PostItemProps {
3   username: string
4   title: string
5   imgUrl: string
6   likes: number
7   comments: number
8   shares: number
9 }
```

TS status.ts

```
src > models > TS status.ts > status
You, 11 hours ago | 1 author (You)
1 // Phạm Hải Vũ - 21522804
You, 3 days ago | 1 author (You)
2 export interface status {
3   LIKE: boolean
4 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

PS D:\Nam4\monApp\TH\LAB2\21522804_Bail>

3.2.5. Navigation

```

EXPLORER          ... ProfileScreen.tsx • TS AppContextProps.ts M   APP AppContextProvider.tsx M   TS type.ts •
src > routes > types > TS type.ts ...
1 // Phạm Hoài Vũ MSSV:21522804
2 // type.ts
3 import { BottomTabScreenProps } from "@react-navigation/bottom-tabs"
4 import [
5   CompositeScreenProps,
6   NavigatorScreenParams,
7 ] from "@react-navigation/native" 8.9k (gzipped: 3.2k)
8 import { NativeStackScreenProps } from "@react-navigation/native-stack"
9
10 export type RootNativeStackParamList = {
11   HomeScreen: NavigatorScreenParams<HomeTabParamsList>;
12   LogIn: undefined;
13   SignUp: undefined;
14 }
15
16 export type RootNativeStackScreenProps<T extends keyof RootNativeStackParamList> =
17   T extends keyof RootNativeStackParamList
18   ? NativeStackScreenProps<RootNativeStackParamList, T>
19   : never;
20
21 export type HomeTabParamsList = {
22   Home: undefined;
23   Categories: undefined;
24   Favorites: undefined;
25   Profile: undefined;
26 }
27
28 export type HomeTabScreenProps<T extends keyof HomeTabParamsList> =
29   CompositeScreenProps<
30     BottomTabScreenProps<HomeTabParamsList, T>,
31     RootNativeStackScreenProps<keyof RootNativeStackParamList>
32   >
33
34 declare global {
35   namespace ReactNavigation {
36     interface RootParamList extends RootNativeStackParamList {}
37   }
38 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

OUTLINE TIMELINE PS D:\Nam4\monApp\TH\LAB2\21522804_Bai3> You, last week via PR #7 | Ln 6, Col 27 | Tab Size: 4 | UTF-8 | CRLF | Go Live | Go Live | Trabine: Sign-in is required | Prettier

Hình: AppContextProvider.tsx

```

BottomTabNavigation.tsx • ... BottomTabNavigation.tsx • ...
src > routes > BottomTabNavigation.tsx ...
You, 12 minutes ago | 1 author (You)
1 // Phạm Hoài Vũ MSSV:21522804
2 // HomeScreen.tsx
3 import React from "react"; 6.9k (gzipped: 2.7k)
4 import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
5 import { HomeTabParamsList } from "./types/type";
6 import { Home } from "../pages/mainScreen/HomeScreen";
7 import { Categories } from "../pages/mainScreen/CategoriesScreen";
8 import { Profile } from "../pages/mainScreen/ProfileScreen";
9 import { Favorites } from "../pages/mainScreen/FavoritesScreen";
10 import { AntDesign, FontAwesome, Octicons } from "@expo/vector-icons";
11 import { View, StyleSheet } from "react-native";
12
13 const Tab = createBottomTabNavigator<HomeTabParamsList>();
14
15 export const MainScreen = () => {
16   return (
17     <Tab.Navigator
18       initialRouteName="Home"
19       screenOptions={({ route }) => {
20         tabBarIcon: ({ focused }) => {
21           const iconColor = focused ? "blue" : "black";
22           let IconComponent;
23
24           switch (route.name) {
25             case "Home":
26               IconComponent = <AntDesign name="home" size={24} />;
27               break;
28             case "Categories":
29               IconComponent = <AntDesign name="appstore" size={24} />;
30               break;
31             case "Favorites":
32               IconComponent = <Octicons name="heart-fill" size={24} />;
33               break;
34             case "Profile":
35               IconComponent = <FontAwesome name="user" size={24} />;
36               break;
37             default:
38               IconComponent = null;
39           }
40         }
41       }
42     </Tab.Navigator>
43   );
44 }
45
46 const styles = StyleSheet.create({
47   iconContainer: {
48     align-items: "center",
49     justifyContent: "center",
50     width: "100%",
51     height: "100%",
52   },
53 }
54
55 export default MainScreen;

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS

PS D:\Nam4\monApp\TH\LAB2\21522804_Bai3>

Hình: BottomTabNavigation.tsx

```
// Pham Hoai VG MSSV:21522804 You, last week via PR #7 * add bai3 (lab2)
import React from "react" // 6.9k (gzipped: 2.7k)
import { NavigationContainer } from "@react-navigation/native" // 35.5k (gzipped: 12.1k)
import { createStackNavigator } from "@react-navigation/native-stack"
import { RootNativeStackParamList } from "./types/type"
import MainScreen from "./BottomTabNavigation"
import LoginScreen from "../pages/auth/LoginScreen"
import RegisterScreen from "../pages/auth/RegisterScreen"
const Stack = createStackNavigator<RootNativeStackParamList>()
export const Screen = () => {
  const appContext = React.useContext(AppContext)

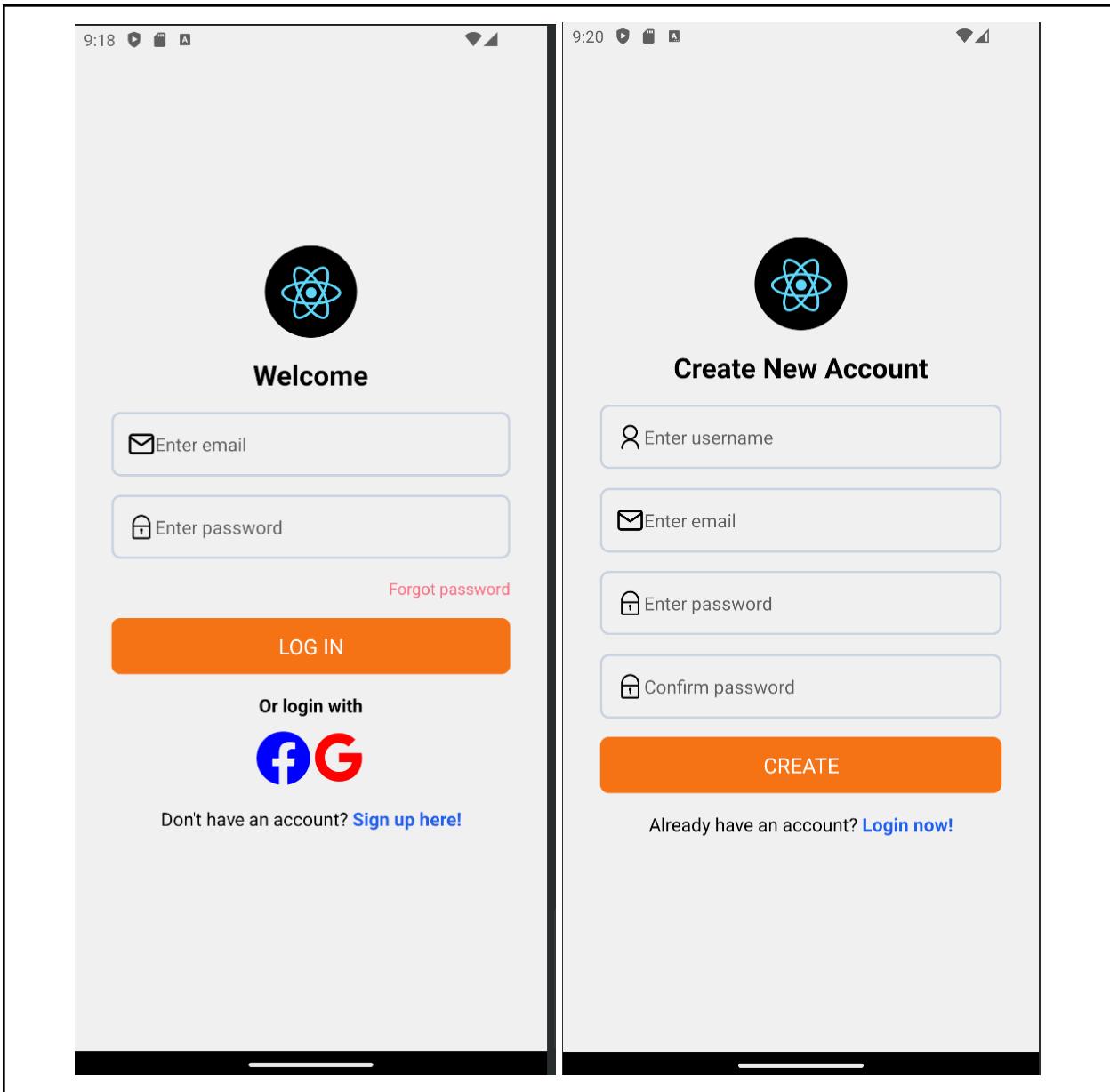
  return (
    <NavigationContainer>
      <Stack.Navigator
        screenOptions={{ headerShown: false }}
        initialRouteName="LogIn">
        {appContext?.isLoggedIn === "success" ? (
          <Stack.Screen name="HomeScreen" component={MainScreen} />
        ) : (
          <>
            <Stack.Screen name="LogIn" component={LogInScreen} />
            <Stack.Screen name="SignUp" component={RegisterScreen} />
          </>
        )
      </Stack.Navigator>
    </NavigationContainer>
  )
}

// node
// powershell
```

Hình: MainStackNavigation.tsx

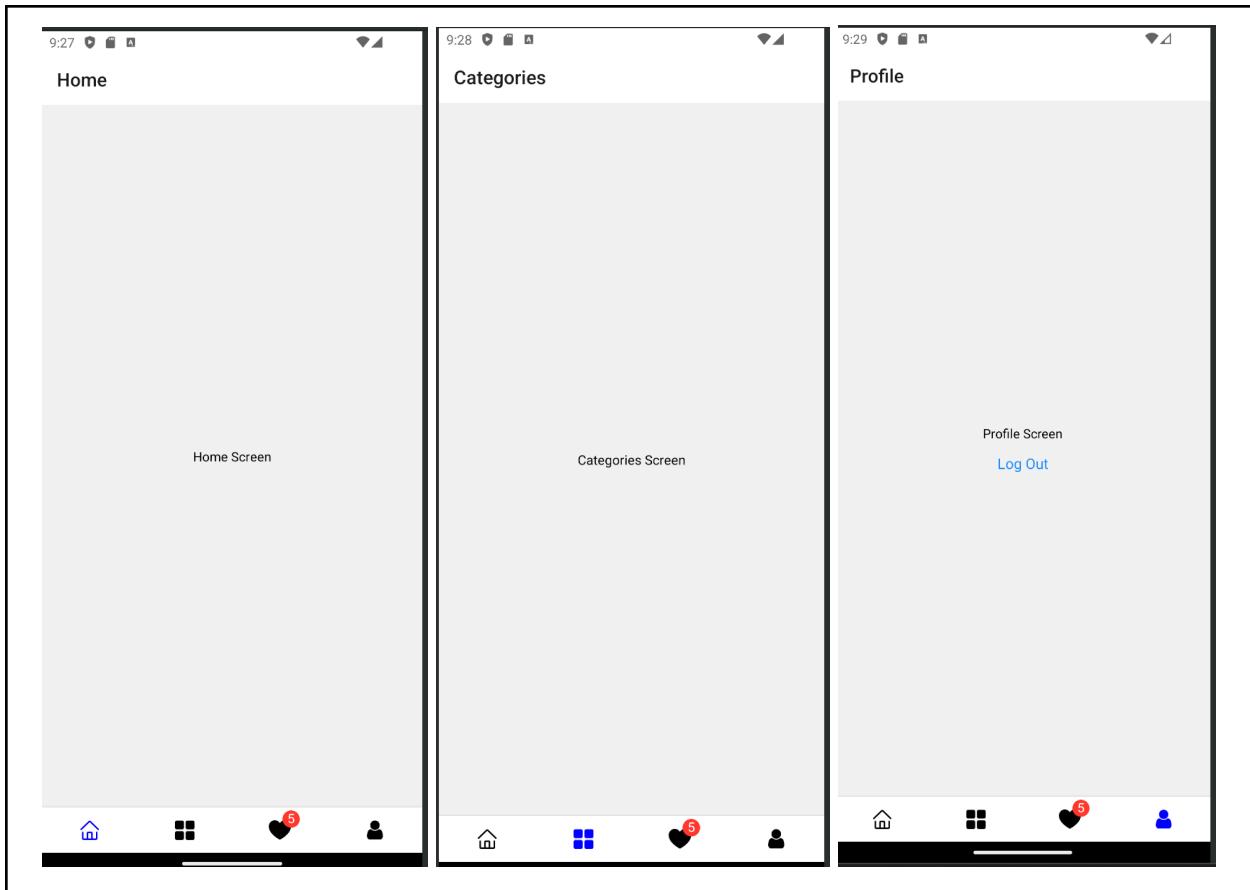
3.4. Màn hình ứng dụng

3.4.1. Màn hình đăng nhập, đăng ký



Hình: Màn hình đăng nhập, đăng ký

3.4.2. Màn hình khác



1.5. Demo

Linh drive:

https://drive.google.com/drive/folders/1q2nAA7VmF8yfhePG7PrMLAHfWCF_nd5m?usp=sharing