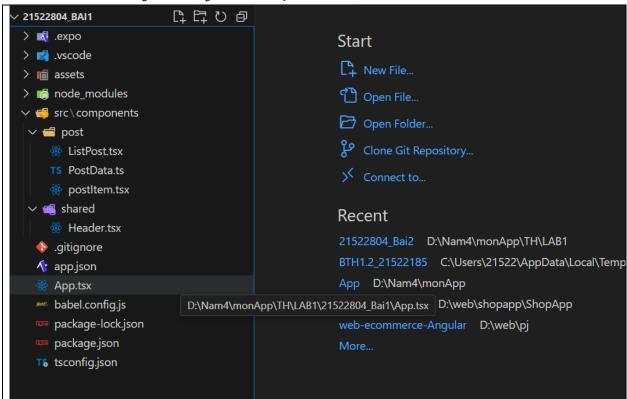
MÔN: CÔNG NGHỆ LẬP TRÌNH ĐA NỀN TẢNG CHO ỨNG DỤNG DI ĐỘNG

BÀI TẬP THỰC HÀNH 1

Họ Tên: Phạm Hoài Vũ MSSV: 21522804

Bài 1: Social Media

- Cấu trúc các folders / files của dự án.



- Nội dung code của các file:
- 1. App.tsx

```
♠ App.tsx ×

                                                  49 App.tsx > ...1
21522804_BAI1
                                                      Apptxs > ...
1     // Phạm Hoài V3 - 21522884
2     import { StyleSheet, Text, View } from 'react-native';
3     import Header from './src/components/shared/Header';
4     import Posts from './src/components/post/ListPost';
5     export default function App() {
> 臧 .expo
> 📹 assets
∨ 📹 post
                                                                 10 (/
11 );
12 )
      TS PostData.ts
                                                  const styles = StyleSheet.cre
container: {
flex: 1,
backgroundColor: '#fff',
alignItems: 'center',
justifyContent: 'center',
};
};
};
   .gitignore
                                                      babel.config.js
    package-lock.json
      package.json
                                                                                                                                                                                                                ☑ powershell + ∨ Ⅲ 葡 ·
                                                     PS D:\Nam4\monApp\TH\LAB1\21522804_Bai1>
```

2. Components

2.1. Header.tsx

```
src > components > shared > <code>%</code> Header.tsx > ...

1 // Phạm Hoài Vũ - 21522884
2 import { View, Text, StyleSheet } from "react-native";
21522804_BAI1
> iii .vscode
> iii assets
> iii node_modules
                                             4 v const Header = () => {

✓ 

src\components

✓ 

post

   TS PostData.ts
   postItem.tsx
 .gitignoreapp.json
                                                 neaderLontainer: {
height: 60,
width: '100%',
justifyContent: 'center',
alignItems: 'center',
backgroundColor: '#2563eb',
 App.tsxbabel.config.js
                                          == package-lock.json
  T& tsconfig.json
                                          PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS
                                                                                                                                                                     ∑ powershell + ∨ □ 🝵 ··· ^
                                          PS D:\Nam4\monApp\TH\LAB1\21522804_Bail> []
```

2.2. Post.tsx

```
| Postment | Postment
```

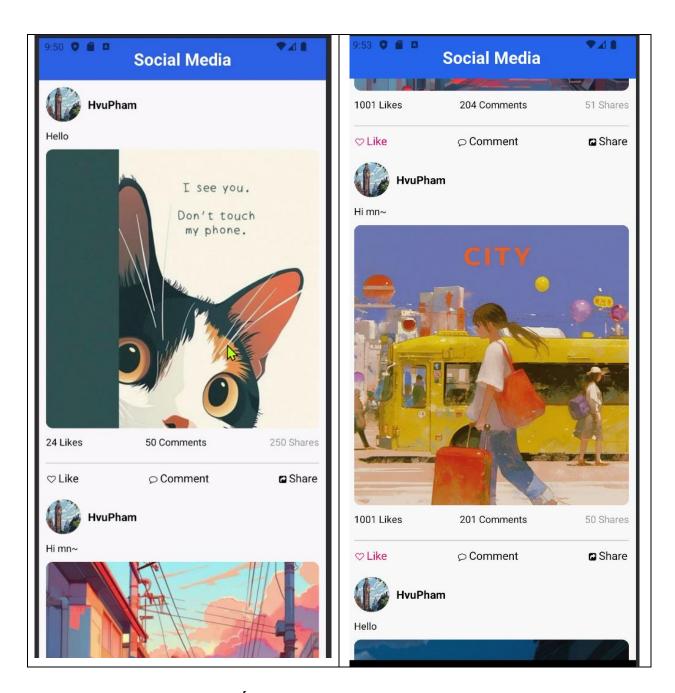
Hình 2.2.a. Post.tsx

```
## Application | positionation | positionational | positionation
```

3. Data

```
| vision | v
```

- Màn hình kết quả:



- Link video màn hình kết quả:

https://drive.google.com/drive/folders/1bVoVq56EB9kzqz4OcQDbYHqgqJBgzTl
H?usp=sharing

Bài 2: Workouts, Fruits and Vegetables

- Cấu trúc các folders / files của dự án.

```
× 21522804_BAI2
 > 🗖 .expo
 > 🗾 .vscode
 > 📾 assets
 > node_modules
🗸 🐗 src
  🗸 📹 shared
      Meader.tsx
     Fruit.tsx
     workout.tsx
 🗸 📹 Data
     TS Data.ts
 TS Fruit.ts
     TS Workout.ts
TS StyleComponent.ts
   .gitignore
   👫 app.json
   App.tsx
   babel.config.js
    package-lock.json
     package.json
   T& tsconfig.json
```

Nội dung code của các file:

1. App.tsx

```
Apptax > (e) App

1 // Pham Hoài Vũ - 21522884

2 import React, { useState } from "react"; 6.9k (gzipped: 2.7k)

3 import { SafeAreaView, StyleSheet, View, Text } from "react-native";

4 import WorkoutsComponent from "./src/components/workout";

5 import FruitComponent from "./src/components/Fruit";

6 import Header from "./src/components/shared/Header";

7 const App a () = ()
                                                                                                                                                                                                      {/selectedWorkouts.join(", ") + " " + selectedItems.join(", ")}
</rext>
       Import reduct
const App = () => {
    const [selectedWorkouts, setSelectedWorkouts] = useState<string[]>([]);
    const [selectedItems, setSelectedItems] = useState<string[]>([]);
                                                                                                                                                                                       const styles = StyleSheet.create({
    container: {
                                                                                                                                                                                          },
containerWorkoutsComponent: {
height: "43%",
paddingHorizontal: 10,
            const handleItemSelection = (selected: string[]) => {
               setSelectedItems(selected);
                                                                                                                                                                                               height: "43%",
paddingHorizontal: 10,
           return (
     <SafeAreaView style={styles.container}>
                                                                                                                                                                            selectedContainer: {
50 backgroundColor: "#fff",
Click to add a breakpoint "center",
52 JustiryContent: "center",
53
                   <View style={styles.containerWorkoutsComponent}>

<WorkoutsComponent onSelect={handleWorkoutSelection} />
                                                                                                                                                                                          selectedText: {
  fontSize: 20,
  fontWeight: "bold",
  color: "red",
                   <View style={styles.containerFruitComponent}>

<FruitComponent onSelect={handleItemSelection} />
                    <Text style={{ fontSize: 16, alignContent: "center" }}>
{selectedWorkouts.join(", ") + " " + selectedItems.join(", ")}
</Text>
                                                                                                                                                                                       export default App;
                </SafeAreaView
```

2. Components

2.1. Fruit.tsx

```
Fruit tsx X
          // Phạm Hoài Vũ - 21522884
import React, { useState, useEffect } from "react"; 6.9k (gzipped: 2.7k
                                                                                                                                                                           const FruitComponent: React.FC<Fruit> = ({
  const renderSectionHeader = ({
                                                                                                                                                                                     <Text style={StyleComponent.headerTitle}>{section.title}</Text>
                                                                                                                                                                              );
const renderItem = ({ item }: { item: string }) => {
const isSelected = selectedItems.includes(item);
              Text,
TouchableOpacity,
              View,
             Image,
ImageBackground
                                                                                                                                                                                 return (

          Imagesackground
} from "react-native";
import { fruits_vegetables } from "../Data/Data";
import { Fruit } from "../models/Fruit";
import { StyleComponent } from ".././styles/StyleComponent";
const FruitComponent: React.FC<Fruit> = ({
                                                                                                                                                                                      <Text style={StyleComponent.textworkout}>{item}</Text>
<TouchableOpacity onPress={() => toggleItem(item)} style={Style
                                                                                                                                                                                          <Text style={StyleComponent.selectedText}>
{isSelected ? "DESELECT" : "SELECT"}
</Text>
          }) => {
| const [selectedItems, setSelectedItems] = useState<string[]>([]);
             useEffect(() => {
             onSelect(selectedItems);
}, [selectedItems]);
                                                                                                                                                                                     <Text style={StyleComponent.title}>SectionList - Fruits & Vegetab
                                                                                                                                                                                   const toggleItem = (item: string) => {
                 if (selectedItems.includes(item)) {
   setSelectedItems(selectedItems.filter((selected) => selected !== it
                                                                                                                                                                                       style={{ width: "100%" }}
sections={fruits_vegetables}
renderItem={renderItem}
                                                                                                                                                                                        renderSectionHeader={renderSectionHeader}
keyExtractor={(item, index) => item + index}
stickySectionHeadersEnabled={true}
             const renderSectionHeader = ({
                                                                                                                                                                                    </ImageBackground>

<
               OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS COMMENTS
                                                                                                                                                                                                                                                                ≥ powershell + ∨ □ 🛍
PS D:\Nam4\monApp\TH\LAB1\21522804_Bai2> []
```

2.2. workout.tsx

```
workout.tsx
                                                                                                                                      // Pham Hoal Vu - 21522804
import React, { useState, useEffect } from "react"; 6.9k (gzipped: 2.7k
         import {
   FlatList,
                                                                                                                                                     return (

(View style={[StyleComponent.item, isSelected && StyleComponed

(Text style={StyleComponent.textworkout}}-{item.type}-(Text)
             Text,
TouchableOpacity,
                                                                                                                                                           <TouchableOpacity
onPress={() => toggleWorkout(item.type)}
style={StyleComponent.btn}
        View,
ImageBackground
) from "react-native";
import (workouts) from "../Data/Data";
import (workout) from "../models/Norkout";
import (StyleComponent) from ".././styles/StyleComponent";
                                                                                                                                                             <Text style={StyleComponent.selectedText}>
{isSelected ? "DESELECT" : "SELECT" }
                                                                                                                                                            {isSelected ?

</Text>

</TouchableOpacity>
          const WorkoutsComponent: React.FC<Workout> = ({ onSelect }) => {
    const [selectedWorkouts, setSelectedWorkouts] = useState<string[]>([]);
                                                                                                                                                 useEffect(() => {
  onSelect(selectedWorkouts);
                                                                                                                                                     <ImageBackground
source={require("../../assets/bg1.jpg")}
style = {{width: "100%"}}</pre>
                 st toggleWorkout = (type: string) => {
f (selectedWorkouts.includes(type)) {
setSelectedWorkouts(selectedWorkouts.filter((item) => item !== type

<flattist
style={{ width: "100%" }}
data={workouts}
renderItem=(renderItem)
keyExtractor=((item) => item.id)
            const renderItem = ({ item }: { item : { id: string; type: string } })
const isSelected = selectedMorkouts.includes(item.type);
return (
                                                                                                                                                     ImageBackground
                  ∑ powershell + ∨ □ 🛍 ··· ^ ×
PS D:\Nam4\monApp\TH\LAB1\21522804 Bai2>
```

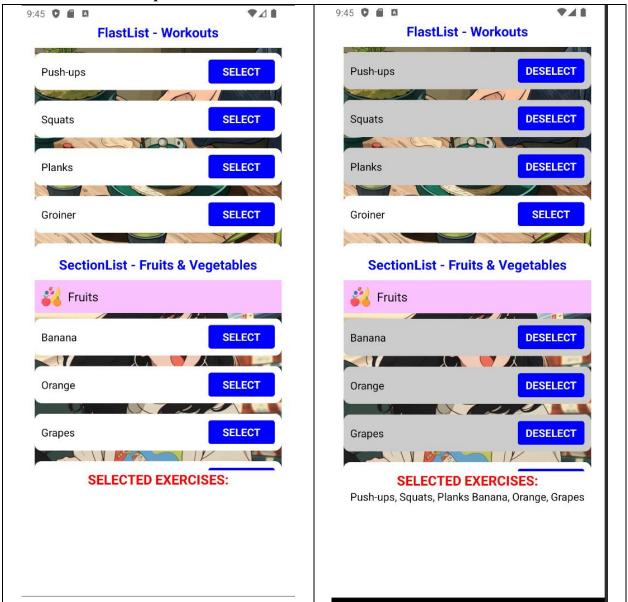
3. Models (Fruit.ts, Workout.ts)

```
## OPTIONER ## OPT
```

4. StyleComponent.tsx

```
StyleComponent.ts X
                                                                                                                                                                                                               styles > TS StyleComponent.ts > (@) StyleComponent > \mathcal{B} container
3     export const StyleComponent = StyleSheet.create({
             headerTitle: {
                                                                                                                                                                                                                                       Item: {
display: "flex",
flexDirection: "now",
justifyContent: "space-between",
padding: 10,
backgroundcolor: "#fff",
marginVertical: 8,
borderRadius: 10,
              alignItems: "center",
padding: 10,
width: "100%",
height: "100%",
                      }
title: {
fontSize: 20,
fontWeight: "bold",
color: "blue",
marginVertical: 10,
                                                                                                                                                                                                                                       selectedItem: {
  backgroundColor: "#ccc",
                                                                                                                                                                                                                                       },
selectedText: {
  color: "#fff",
  fontWeight: "bold",
  alignItems: "center",
  fontSize: 16,
                         flexDirection: "row",
alignItems: "center",
backgroundColor: "#f9c2ff",
padding: 10,
                                                                                                                                                                                                                                       textworkout: {
                                                                                                                                                                                                                                         fontSize: 16,
alignSelf: "center",
                         width: 30,
height: 30,
marginRight: 10,
                                                                                                                                                                                                                                       btn: {
    display: "flex",
    alignItems: "center",
    width: 180,
    justifyContent: "center",
    backgroundColor: "blue",
    padding: 7,
    marginLeft: 10,
    borderRadius: 4,
                       headerTitle: {
fontSize: 18,
                       item: {
    display: "flex",
    flexDirection: "row",
    justifyContent: "space-between",
    padding: 10,
    harkmoundColor: "afff"
                                                                                                                                                                                                                                                                                                                                            ☑ powershell + ∨ Ⅲ 🛍 ··· ∧
PS D:\Nam4\monApp\TH\LAB1\21522804_Bai2> []
```

- Màn hình kết quả:



- Link video màn hình kết quả:
https://drive.google.com/drive/folders/1bVoVq56EB9kzqz4OcQDbYHqgqJBgzTlH?usp=sharing