Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

# **A.LEARNING OUTCOMES PRAKTIKUM**

- Mampu menggunakan aplikasi Visual Studio Code untuk membuat project React Native APP
- Memahami cara menggunakan Navigation pada React Native

# **B.ALAT dan BAHAN**

- 1. Personal Computer dengan tersedianya aplikasi Visual Studio Code
- 2. Android Studio
- 3. Node.JS
- 4. Yarn
- 5. ES-7 Snippets pluggin for VScode
- 6. Koneksi Internet

# **C.TEORI SINGKAT**

# **React Navigation**

Navigasi dalam React Native (React Navigation) merupakan hasil kerja keras komunitas Facebook dan Expo untuk menciptakan sistem navigasi yang mudah digunakan didalam React Native. Ia merupakan implementasi dari Javascript yang mengartikan bahwa aplikasinya nanti bisa berjalan pada platform android maupun IOS.

React Navigation adalah salah satu solusi kita untuk menavigasi tampilan di React Native. React Navigationmemberikan kemudahan dalam menavigasi tampilan dengan menyediakan kemampuan stack dan tabbed navigation pattern yang dapat berjalan baik di OS Android maupun IOS. Terdapat tiga hal mendasar yang akan kita pelajari pada artikel ini, yaitu bagaimana membuat tab, stack dan modal menggunakan React Navigation.

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

# D. LANGKAH KERJA

- 1. Buka CMD Lalu akses file project yang telah dibuat sebelumnya,
- 2. Tambahkan yarn add react-navigation react-navigation-tabs

```
C:\WINDOWS\system32\cmd.exe — — X

C:\Users\acer\Project-PSB>yarn add react-navigation react-navigation-tabs
yarn add v1.22.19

warning package-lock.json found. Your project contains lock files generated by tools other than Yarn. It is advised not to mix package managers in order to avoid resolution inconsistencies caused by unsynchronized lock files. To clear this warning, remove package-lock.json.

[1/4] Resolving packages...

warning @expo/webpack-config > webpack-dev-server > chokidar > fsevents@1.2.13: fsevents 1 will break on node v14+ and c ould be using insecure binaries. Upgrade to fsevents 2.

[2/4] Fetching packages...

warning mini-css-extract-plugin@0.5.0: Invalid bin field for "mini-css-extract-plugin".

[3/4] Linking dependencies...

warning "react-native > react-native-codegen > jscodeshift@0.13.1" has unmet peer dependency "@babel/preset-env@^7.1.6".

warning "react-navigation-tabs > react-native-tab-view@2.16.0" has unmet peer dependency "react-native-gesture-handler@*

". warning " > react-navigation-tabs@2.11.2" has unmet peer dependency "react-native-gesture-handler@^1.0.0".

warning " > react-navigation-tabs@2.11.2" has incorrect peer dependency "react-native-reanimated@^1.0.0-alpha".

[4/4] Building fresh packages...
```

3. Selanjutnya kita akan menggunakan FontAwesome untuk ikonnya. Untuk itu kita perlu menambahkannya pada project:

yarn add react-native-svg @fortawesome/fontawesome-svg-core @fortawesome/free-solid-svg-icons @fortawesome/react-native-fontawesome

```
. C:\WINDOWS\system32\cmd.exe
C:\Users\acer\Project-PSB>yarn add react-native-svg @fortawesome/fontawesome-svg-core @fortawesome/free-solid-svg-icons
yarn add v1.22.19
warning package-lock.json found. Your project contains lock files generated by tools other than Yarn. It is advised not
to mix package managers in order to avoid resolution inconsistencies caused by unsynchronized lock files. To clear this
varning, remove package-lock.json.
[1/4] Resolving packages...
[2/4] Fetching packages...
3/4] Linking dependencies...
  arning "react-native > react-native-codegen > jscodeshift@0.13.1" has unmet peer dependency "@babel/preset-env@^7.1.6".

arning " > react-navigation-tabs@2.11.2" has unmet peer dependency "react-native-gesture-handler@^1.0.0".

arning " > react-navigation-tabs@2.11.2" has incorrect peer dependency "react-native-reanimated@^1.0.0-alpha".
  arning "react-navigation-tabs > react-native-tab-view@2.16.0" has unmet peer dependency "react-native-gesture-handler@*
4/4] Building fresh packages...
   ccess Saved lockfile.
ccess Saved 7 new dependencies.
fo Direct dependencies
   @fortawesome/fontawesome-svg-core@6.2.0
  - @fortawesome/free-solid-svg-icons@6.2.0
- @fortawesome/react-native-fontawesome@0.3.0
   react-native-svg@13.3.0
nfo All dependencies

— @fortawesome/fontawesome-svg-core@6.2.0
   @fortawesome/free-solid-svg-icons@6.2.0
   @fortawesome/react-native-fontawesome@0.3.0
   css-select@5.1.0
   humps@2.0.1
    prop-types@15.8.1
    react-native-svg@13.3.0
```

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

4. Tambahkan yarn add react-native-gesture-handler

```
C:\Users\acer\Project-PSB>yarn add react-native-gesture-handler
yarn add v1.22.19
warning package-lock.json found. Your project contains lock files generated by tools other than Yarn. It is advised not
to mix package managers in order to avoid resolution inconsistencies caused by unsynchronized lock files. To clear this
warning, remove package-lock.json.

[1/4] Resolving packages...

[2/4] Fetching packages...

[3/4] Linking dependencies...

warning "react-native > react-native-codegen > jscodeshift@0.13.1" has unmet peer dependency "@babel/preset-env@^7.1.6".
warning " > react-navigation-tabs@2.11.2" has incorrect peer dependency "react-native-gesture-handler@^1.0.0".

warning " > react-navigation-tabs@2.11.2" has incorrect peer dependency "react-native-reanimated@^1.0.0-alpha".

[4/4] Building fresh packages...

success Saved lockfile.

success Saved 3 new dependencies.

info Direct dependencies

- react-native-gesture-handler@2.7.0

info All dependencies

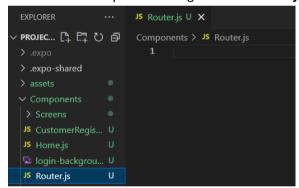
- @egjs/hammerjs@2.0.41

- react-native-gesture-handler@2.7.0

Done in 15.83s.

C:\Users\acer\Project-PSB>
```

5. Buat sebuah Components dengan nama Router.js



6. Lalu ketikan codingan seperti berikut pada Router.js

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

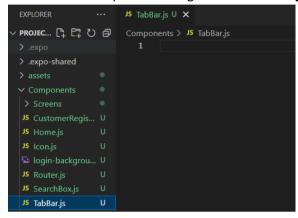
7. Buat sebuah Components dengan nama Icon.js



8. Lalu ketikan codingan seperti berikut pada Icon.js

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

9. Buat sebuah Components dengan nama Tabbar.js

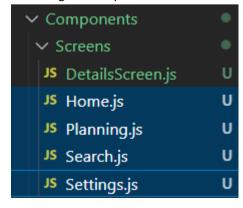


10. Lalu ketikan codingan seperti berikut pada Tabbar.js

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

```
<TouchableOpacity
              key={routeIndex}
              style={S.tabButton}
              onPress={() => {
               onTabPress({route});
              onLongPress={() => {
               onTabLongPress({route});
              accessibilityLabel={getAccessibilityLabel({route})}>
              {renderIcon({route, focused: isRouteActive, tintColor})}
export default TabBar;
const S = StyleSheet.create({
 container: {
    flexDirection: 'row',
    height: 54,
    borderTopWidth: 1,
    borderTopColor: '#E8E8E8',
  tabButton: {flex: 1, justifyContent: 'center', alignItems: 'center'},
  activeTab: {
    height: '100%',
    alignItems: 'center',
    justifyContent: 'center',
  activeTabInner: {
   width: 48,
    height: 48,
    backgroundColor: '#E1F5FE',
    borderRadius: 24,
```

11. Pada bagian Components – Screen Tambahkan :



Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

• Lalu ketikan codingan seperti berikut pada Home.js

```
JS Home.js U X
Components > Screens > JS Home.js > [❷] styles
       import { View, StyleSheet, Text } from 'react-native'
       import React from 'react'
       export default function Home() {
         return (
           <View style={styles.container}>
             <Text>Home</Text>
           </View>
       const styles = StyleSheet.create({
         container:{
           flex:1,
           backgroundColor :'cyan',
           alignItems: 'center',
           justifyContent : 'center'
 18
```

Lalu ketikan codingan seperti berikut pada Planning.js

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

• Lalu ketikan codingan seperti berikut pada Search.js

```
JS Search.js U X
Components > Screens > JS Search.js > [∅] styles
       import { View,StyleSheet, Text } from 'react-native'
       import React from 'react'
      export default function Search() {
           <View style={styles.container}>
             <Text style={styles.tx1}>Search</Text>
           </View>
       const styles = StyleSheet.create({
         container:{
           flex:1,
           backgroundColor :'pink',
           alignItems: 'center',
           justifyContent: 'center'
           fontWeight :'bold',
           fontSize : 20
```

• Lalu ketikan codingan seperti berikut pada Setting.js

Fakultas Teknik UNP Padang	Waktu : 3 x 50"
Departemen : Teknik Elektronika	Mata Kuliah : Pemograman Sistem Bergerak
Prodi : Pend.Teknik Informatika	Topik : React Native
Kode : TIK1.61.5308	Judul : Navigation 2

12. Lalu ketikan codingan seperti berikut pada app.js

# 13. Output Program

