

# **PRAKTIKUM PENGEMBANGAN APLIKASI BERGERAK**

## **MODUL 5 Interaction & Navigation in React Native**



**Sistem Informasi**  
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**PROGRAM STUDI S1 SISTEM INFORMASI  
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# MODUL 5

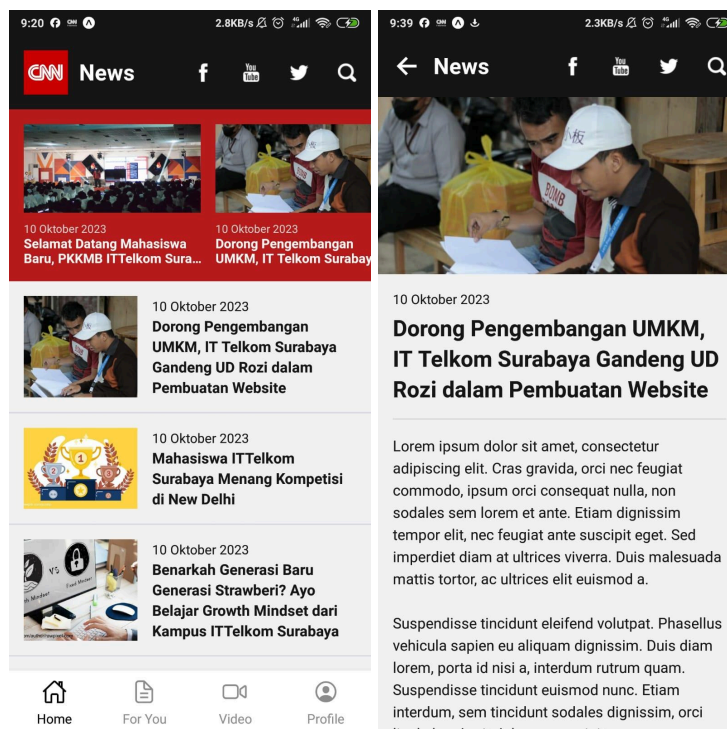
## INTERACTION & NAVIGATION IN REACT NATIVE

Pada praktikum kali ini kita akan melanjutkan belajar tentang konsep dasar hal-hal yang berkaitan dengan interaksi dan navigasi di dalam React Native. Kegiatan ini dilakukan agar mahasiswa mampu menerapkan konsep dasar interaksi dan navigasi pada React Native. Praktikum kali ini akan diberikan 2 contoh sedernana:

1. Contoh project yang menerapkan **NativeBase** dan **React Navigation**.
2. Contoh project yang menerapkan **Gluestack** dan **Expo Router**.

### 1. Project NativeBase dan React Navigation

Pada bagian ini kita akan belajar menerapkan konsep navigation pada sebuah project react native (expo) yang menggunakan **NativeBase** sebagai UI Framework nya dan menggunakan **React Navigation** untuk penerapan navigasi antar screen. Hasil akhir nya adalah seperti gambar di bawah ini.



#### 1.1 Membuat dan Menjalankan Project React Native (Expo)

- Buat sebuah project **React Native** via **Expo** bernama **nav-one** dengan menjalankan command:

```
npx create-expo-app nav-one
```

- Masuk ke folder project **nav-one** yang sudah terbuat dengan menjalankan command:

```
cd nav-one
```

- Jalankan project react native anda dengan command:

```
npx expo start
```

atau

```
npx expo start --tunnel
```

- Akan muncul sebuah **QRCode** pada command prompt anda
- Buka aplikasi **Expo Go** di handphone, kemudian scan **QRCode** tersebut.

```
purnamaanaking ~/Desktop/myApp (master) $ expo start
This command is being executed with the global Expo CLI. Learn more: https://blog.expo.dev/the-new-expo-cli-f4250d8e3421
To use the local CLI instead (recommended in SDK 46 and higher), run:
> npx expo start

Starting project at /Users/purnamaanaking/Desktop/myApp
Starting Metro Bundler

Metro Bundler
  Expo Go
  Expo Dev Client
  Expo Web

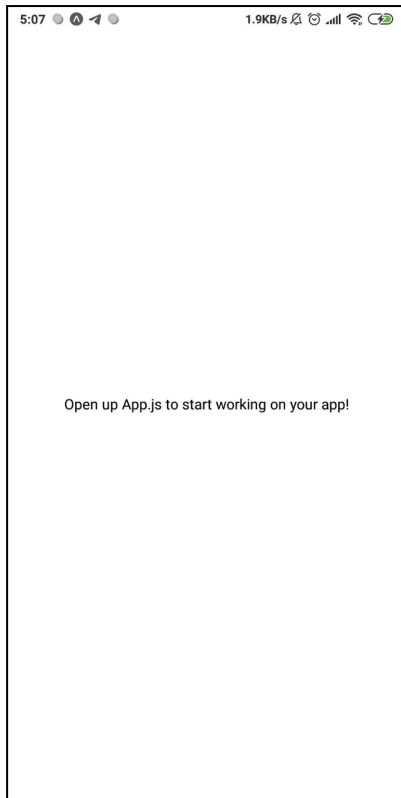
> Metro waiting on expo://192.168.8.180:19000
> Scan the QR code above with Expo Go (Android) or the Camera app (iOS)

Press a | open Android
Press i | open iOS simulator
Press w | open web

Press r | reload app
Press m | toggle menu
Press ? | show all commands

Logs for your project will appear below. Press Ctrl+C to exit.
Started Metro Bundler
```

- Akan muncul Screen Sederhana (pada Handphone anda) dari Project React Native yang telah anda buat.



## 1.2 Instalasi & Setup NativeBase

- Install **NativeBase** dan **dependencies** nya dengan mengeksekusi command berikut ini pada terminal / command prompt.

```
npm install native-base --legacy-peer-deps
```

```
npx expo install react-native-svg --legacy-peer-deps
```

```
npx expo install react-native-safe-area-context --legacy-peer-deps
```

- Patch NativeBase (**Jika Muncul Warning SSRProvider**) dengan membuka file **node\_modules/native-base/src/core/NativeBaseProvider.tsx**
- Cari dan lihat pada baris ke 97 dan ubah **<SSRProvider>{children}</SSRProvider>** menjadi:

```
{React.version >= '18' ? children : <SSRProvider>{children}</SSRProvider>}
```

- Pada terminal, jalankan command:

```
npx patch-package native-base
```

- Jalankan ulang service Expo nya.

### 1.3 Instalasi & Setup React Navigation

- Masuk ke direktori project yang telah dibuat, kemudian install **React Navigation**:

```
npm install @react-navigation/native --legacy-peer-deps
```

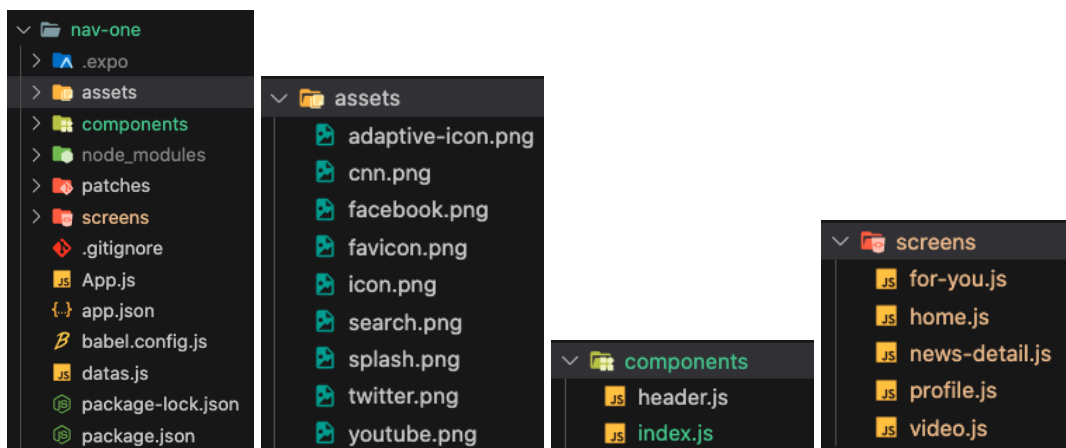
```
npm install @react-navigation/native-stack --legacy-peer-deps
```

```
npx expo install react-native-screens react-native-safe-area-context  
--legacy-peer-deps
```

```
npm install @react-navigation/bottom-tabs --force
```

### 1.4 Persiapan Struktur Project

- Sesuaikan struktur project yang ada seperti di bawah ini dengan cara menambahkan folder-folder dan file-file yang dibutuhkan. Download file-file assets pada [link](#) ini.
- Download file **datas.js** pada [link](#) berikut.



### 1.5 Inisialisasi App.js

- Terapkan pada file **App.js** kode program React Native di bawah ini.

```
import { createNativeStackNavigator } from "@react-navigation/native-stack";  
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";  
import { NavigationContainer } from "@react-navigation/native";  
import { NativeBaseProvider, Text } from "native-base";  
import Ionicons from "@expo/vector-icons/Ionicons";  
import Home from "../screens/home";  
import Video from "../screens/video";  
import Profile from "../screens/profile";  
import ForYou from "../screens/for-you";  
import NewsDetail from "../screens/news-detail";  
  
// Navigator Declaration
```

```
const Stack = createNativeStackNavigator();
const Tab = createBottomTabNavigator();

const noHead = { headerShown: false };

const Tabs = () => {
  return (
    <Tab.Navigator
      screenOptions={({ route }) => ({
        tabBarIcon: ({ focused, color }) => {
          let iconName;
          switch (route.name) {
            case "Home":
              iconName = "home-outline";
              break;
            case "For You":
              iconName = "document-text-outline";
              break;
            case "Video":
              iconName = "videocam-outline";
              break;
            case "Profile":
              iconName = "person-circle-outline";
              break;
          }
        },
      })
    >
      <Ionicons
        name={iconName}
        size={28}
        color={focused ? "black" : color}
      />
    </Tab.Navigator>
  );
};

const App = () => {
  <Stack>
    <Tab.Screen name="Home" component={Home} options={noHead} />
    <Tab.Screen name="For You" component={ForYou} options={noHead} />
    <Tab.Screen name="Video" component={Video} options={noHead} />
    <Tab.Screen name="Profile" component={Profile} options={noHead} />
  </Stack>
  <Tabs />
</App>
```

```

return (
  <NativeBaseProvider>
    <NavigationContainer>
      <Stack.Navigator>
        <Stack.Screen name="Tabs" component={Tabs} options={noHead} />
        <Stack.Screen
          name="News Detail"
          component={NewsDetail}
          options={noHead}
        />
      </Stack.Navigator>
    </NavigationContainer>
  </NativeBaseProvider>
);
};

export default App;

```

## 1.6 Komponen Header

- Terapkan pada file **/components/header.js** kode program React Native di bawah ini.

```

import { SafeAreaView } from "react-native-safe-area-context";
import { StatusBar } from "react-native";
import { Box, HStack, Image, Heading } from "native-base";
import { TouchableOpacity } from "react-native";
import Icons from "@expo/vector-icons/Ionicons";
import { useNavigation } from "@react-navigation/native";

const Header = ({ title, withBack = false }) => {
  const trueGray900 = "#171717";
  const navigation = useNavigation();
  return (
    <SafeAreaView>
      <StatusBar barStyle="light" backgroundColor={trueGray900} />
      <Box bg={"trueGray.900"} p={"4"}>
        <HStack justifyContent="space-between" alignItems="center">
          <HStack alignItems="center">
            {!withBack ? (
              <>
                <Image
                  source={require("../assets/cnn.png")}
                  w="12"
                  h="12"
                  alt="CNN Logo"
                  mr={"3"}
                />
              </>
            ) : (
              <TouchableOpacity
                activeOpacity={0.5}
                onPress={() => navigation.goBack()}
              />
            )}

```



```

        >
        <Box mr={"3"}>
          <Ionicons name="arrow-back-outline" size={32} color="white" />
        </Box>
      </TouchableOpacity>
    )}
    <Heading color={"white"}>{title}</Heading>
  </HStack>

  <HStack space={"2x1"}>
    <Image
      source={require("../assets/facebook.png")}
      w="5"
      h="5"
      alt="Facebook Icon"
    />
    <Image
      source={require("../assets/youtube.png")}
      w="5"
      h="5"
      alt="Facebook Icon"
    />
    <Image
      source={require("../assets/twitter.png")}
      w="5"
      h="5"
      alt="Facebook Icon"
    />
    <Image
      source={require("../assets/search.png")}
      w="5"
      h="5"
      alt="Search Icon"
    />
  </HStack>
</HStack>
</Box>
</SafeAreaView>
  );
};

export default Header;

```

## 1.7 Inisialisasi index.js pada Direktori /components

- Terapkan pada file **/components/index.js** kode program React Native di bawah ini.

```

import Header from "../header";

export { Header };

```

## 1.8 Screen Home

- Terapkan pada file `/screens/home.js` kode program React Native di bawah ini.

```
import { Heading, Image, Text, FlatList } from "native-base";
import { Box, ScrollView } from "native-base";
import { TouchableOpacity } from "react-native";
import { useNavigation } from "@react-navigation/native";
import { Header } from "../components";
import datas from "../datas";

const Home = () => {
  const navigation = useNavigation();

  const renderitem = ({ item }) => {
    return (
      <TouchableOpacity
        activeOpacity={0.5}
        onPress={() => navigation.navigate("News Detail", { item: item })}
      >
        <Box
          p={"4"}
          borderBottomColor={"coolGray.300"}
          borderBottomWidth={1}
          flexDirection="row"
          flex={1}
        >
          <Box flex={1} mr={"4"}>
            <Image
              source={{ uri: item.image }}
              w="full"
              h="full"
              alt="Image Data"
            />
          </Box>
          <Box flex={1.8}>
            <Text fontSize={"sm"}>{item.date}</Text>
            <Heading lineHeight={"md"} fontSize={"md"}>
              {item.title}
            </Heading>
          </Box>
        </Box>
      </TouchableOpacity>
    );
  };

  return (
    <>
      <Header title={"News"} />
      <Box py={"4"} bg="red.700">
        <ScrollView horizontal={true} showsHorizontalScrollIndicator={false}>
          {datas.slice(14).map((item, index) => {
            return (
              <TouchableOpacity
                activeOpacity={0.5}
                key={index}
              >
```

```

        onPress={() =>
          navigation.navigate("News Detail", { item: item })
        }
      >
      <Box w={"48"} mr={"4"} ml={index == 0 ? "4" : "0"}>
        <Image
          source={{ uri: item.image }}
          w="full"
          h="24"
          alt="Image Data"
          mb={"2"}
        />
        <Text fontSize={"xs"} color="light.300">
          {item.date}
        </Text>
        <Heading
          fontSize={"sm"}
          lineHeight={"xs"}
          ellipsizeMode="tail"
          numberOfLines={2}
          color="light.50"
        >
          {item.title}
        </Heading>
      </Box>
    </TouchableOpacity>
  );
}
</ScrollView>
</Box>
<FlatList
  data={datas}
  renderItem={renderitem}
  keyExtractor={(item) => item.id}
  showsVerticalScrollIndicator={false}
/>
</>
);
};

export default Home;

```

## 1.9 Screen For You

- Terapkan pada file **/screens/for-you.js** kode program React Native di bawah ini.

```

import { Heading, Center } from "native-base";
import { Header } from "../components";

const ForYou = () => {
  return (
    <>
      <Header title={"For You"} />
    </>
  );
};

```

```

        <Center flex={1}>
          <Heading>For You</Heading>
        </Center>
      </>
    );
  };

  export default ForYou;

```

## 1.10 Screen Video

- Terapkan pada file **/screens/video.js** kode program React Native di bawah ini.

```

import { Heading, Center } from "native-base";
import { Header } from "../components/";

const Video = () => {
  return (
    <>
      <Header title={"Video"} />
      <Center flex={1}>
        <Heading>Video</Heading>
      </Center>
    </>
  );
};

export default Video;

```

## 1.11 Screen Profile

- Terapkan pada file **/screens/profile.js** kode program React Native di bawah ini.

```

import { Heading, Center } from "native-base";
import { Header } from "../components/";

const Profile = () => {
  return (
    <>
      <Header title={"Profile"} />
      <Center flex={1}>
        <Heading>Profile</Heading>
      </Center>
    </>
  );
};

export default Profile;

```

## 1.12 Screen News Detail

- Terapkan pada file `/screens/news-detail.js` kode program React Native di bawah ini.

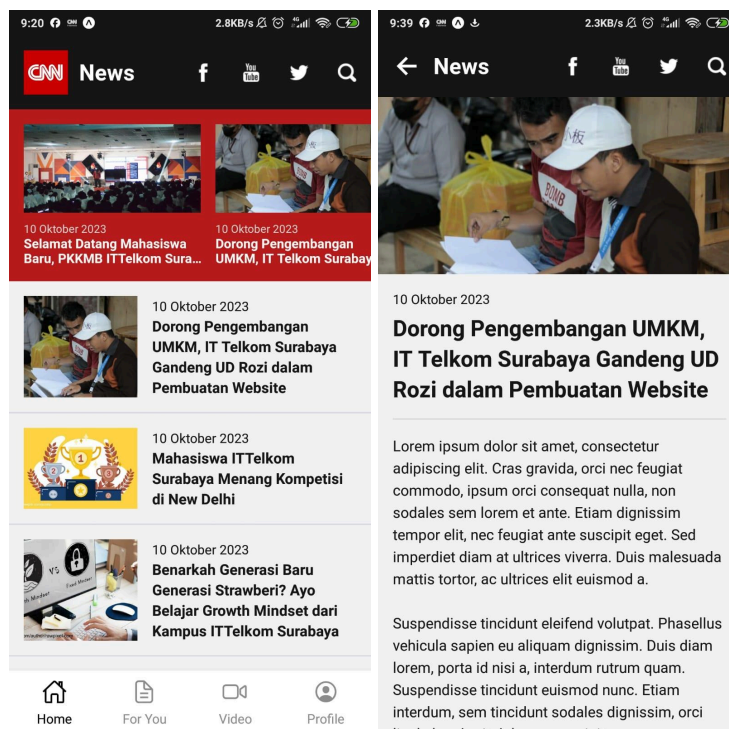
```
import { Heading, Center, Text } from "native-base";
import { Header } from "../components";

const NewsDetail = ({ route }) => {
  // Get the params
  const params = route.params.item;
  return (
    <>
      <Header title={"News"} withBack="true" />
      <Center flex={1} p={"4"}>
        <Heading>News Detail</Heading>
        <Text textAlign={"center"}>{params.title}</Text>
        <Text textAlign={"center"}>{params.content}</Text>
      </Center>
    </>
  );
};

export default NewsDetail;
```

## 2. Project Gluestack dan Expo Router

Pada bagian ini kita akan belajar menerapkan konsep navigation pada sebuah project react native (expo) yang menggunakan **Gluestack** sebagai UI Framework nya dan menggunakan **Expo Router** untuk penerapan navigasi antar screen. Hasil akhir nya adalah seperti gambar di bawah ini.



## 2.1 Membuat dan Menjalankan Project React Native (Expo)

- Buat sebuah project **React Native** via **Expo** bernama **nav-two** dengan menjalankan command:

```
npx create-expo-app nav-two --template
```

- Pilih template **blank**.
- Masuk ke folder project **nav-one** yang sudah terbuat dengan menjalankan command:

```
cd nav-two
```

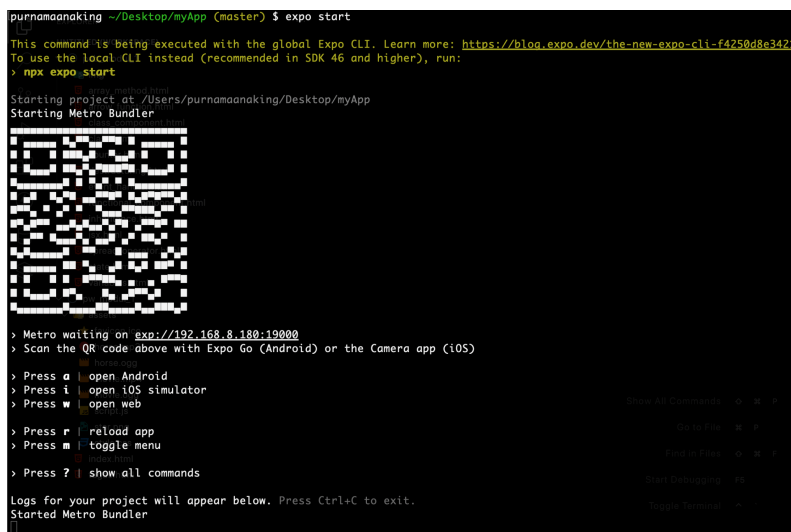
- Jalankan project react native anda dengan command:

```
npx expo start
```

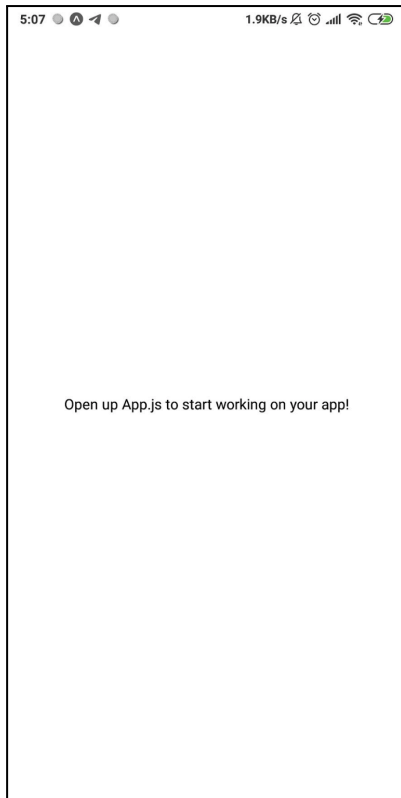
atau

```
npx expo start --tunnel
```

- Akan muncul sebuah **QRCode** pada command prompt anda
- Buka aplikasi **Expo Go** di handphone, kemudian scan **QRCode** tersebut.



- Akan muncul Screen Sederhana (pada Handphone anda) dari Project React Native yang telah anda buat.



## 2.2 Instalasi & Setup Gluestack

- Install **Gluestack** dan **dependencies** nya dengan mengeksekusi command berikut ini pada terminal / command prompt:

```
npm install @gluestack-style/legend-motion-animation-driver  
@gluestack-style/react @gluestack-ui/config @gluestack-ui/themed  
@react-native-aria/focus @react-native-aria/interactions  
@react-native-aria/overlays --legacy-peer-deps
```

Atau dengan cara:

- Install dependencies.

```
npm i @gluestack-ui/themed @gluestack-style/react react-native-svg@13.4.0  
--legacy-peer-deps
```

- Install default themed.

```
npm i @gluestack-ui/config@latest --legacy-peer-deps
```

## 2.3 Instalasi & Setup Expo Router

- Install **Expo Router** dan **dependencies** nya dengan mengeksekusi command berikut ini pada terminal / command prompt:

```
npx expo install expo-router react-native-safe-area-context react-native-screens  
expo-linking expo-constants expo-status-bar react-native-gesture-handler
```

- Buka file **package.json** kemudian tambahkan kode program di bawah ini:

```
"main": "expo-router/entry",
```

- Buka file **app.json** kemudian tambahkan kode program di bawah ini:

```
"scheme": "my-scheme"
```

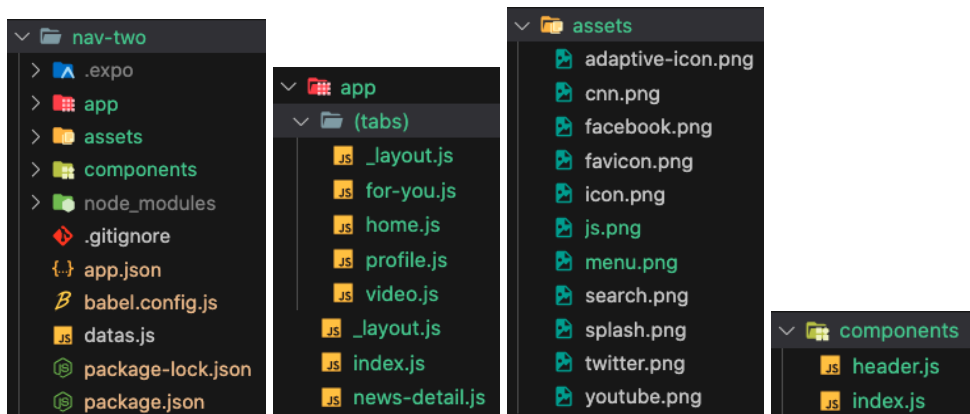
- Buka file **babel.config.js** kemudian tambahkan kode program di bawah ini:

```
plugins: ["expo-router/babel"],
```

- Jalankan ulang service Expo nya.

## 2.4 Persiapan Struktur Project

- Sesuaikan struktur project yang ada seperti di bawah ini dengan cara menambahkan folder-folder dan file-file yang dibutuhkan. Download file-file assets pada [link](#) ini.
- Download file **datas.js** pada [link](#) berikut.



## 2.5 Inisialisasi Stack Layout pada /app/\_layout.js

- Terapkan pada file **/app/\_layout.js** kode program React Native di bawah ini.

```
import { Stack } from "expo-router";  
import { GluestackUIProvider } from "@gluestack-ui/themed";  
import { config } from "@gluestack-ui/config";  
  
const noHead = { headerShown: false };  
  
const StackLayout = () => {  
  return (  
    <GluestackUIProvider config={config}>  
      <Stack>
```



```

        <Stack.Screen name="(tabs)" options={noHead} />
        <Stack.Screen name="index" options={noHead} />
        <Stack.Screen name="news-detail" options={noHead} />
      </Stack>
    </GluestackUIProvider>
  );
};

export default StackLayout;

```

## 2.6 Inisialisasi Index pada /app/index.js

- Terapkan pada file **/app/index.js** kode program React Native di bawah ini.

```

import { Redirect } from "expo-router";

const Root = () => {
  return <Redirect href="/home" />;
};

export default Root;

```

## 2.7 Inisialisasi Tabs Layout pada /app/(tabs)/\_layout.js

- Terapkan pada file **/app/(tabs)/\_layout.js** kode program React Native di bawah ini.

```

import { Tabs } from "expo-router/tabs";
import { Text } from "@gluestack-ui/themed";
import Ionicons from "@expo/vector-icons/Ionicons";

const noHead = { headerShown: false };

const TabsLayout = () => {
  return (
    <Tabs
      screenOptions={({ route }) => ({
        tabBarIcon: ({ focused, color }) => {
          let iconName;
          switch (route.name) {
            case "home":
              iconName = "home-outline";
              break;
            case "for-you":
              iconName = "document-text-outline";
              break;
            case "video":
              iconName = "videocam-outline";
              break;
            case "profile":
              iconName = "person-circle-outline";
              break;
          }
        }
      })
    />
  );
};

```

```

    }
    return (
      <Ionicons
        name={iconName}
        size={28}
        color={focused ? "black" : color}
      />
    );
  },
  tabBarIconStyle: { marginTop: 5 },
  tabBarStyle: {
    height: 70,
  },
  tabBarLabel: ({ children, color, focused }) => {
    return (
      <Text mb="$2" color={focused ? "$black" : color} fontSize="$sm">
        {children}
      </Text>
    );
  },
  }}}
>
  <Tabs.Screen name="home" options={{ title: "Home", ...noHead }} />
  <Tabs.Screen name="for-you" options={{ title: "For You", ...noHead }} />
  <Tabs.Screen name="video" options={{ title: "Video", ...noHead }} />
  <Tabs.Screen name="profile" options={{ title: "Profile", ...noHead }} />
</Tabs>
);
};

export default TabsLayout;

```

## 2.8 Komponen Header

- Terapkan pada file **/components/header.js** kode program React Native di bawah ini.

```

import { Box, Image, HStack, Heading } from "@gluestack-ui/themed";
import { SafeAreaView } from "react-native-safe-area-context";
import { StatusBar } from "react-native";
import Ionicons from "@expo/vector-icons/Ionicons";
import { TouchableOpacity } from "react-native";
import { useNavigation } from "expo-router";

const Header = ({ title, withBack = false }) => {
  const trueGray900 = "#171717";
  const navigation = useNavigation();
  return (
    <SafeAreaView>
      <StatusBar barStyle="light" backgroundColor={trueGray900} />
      <Box bg="$trueGray900" p="$4">
        <HStack justifyContent="space-between" alignItems="center">
          <HStack alignItems="center">
            {!withBack ? (
              <>

```

```

        <Image
          source={require("../assets/cnn.png")}
          w="$12"
          h="$12"
          alt="CNN Logo"
          mr={"$3"}
        />
      </>
    ) : (
      <TouchableOpacity
        activeOpacity={0.5}
        onPress={() => navigation.goBack()}
      >
        <Box mr={"$3"}>
          <Ionicons name="arrow-back-outline" size={32} color="white" />
        </Box>
      </TouchableOpacity>
    )}
  <Heading color={"$white"}><{title}</Heading>
</HStack>

<HStack space={"2x1"}>
  <Image
    source={require("../assets/facebook.png")}
    w="$5"
    h="$5"
    alt="Facebook Icon"
  />
  <Image
    source={require("../assets/youtube.png")}
    w="$5"
    h="$5"
    alt="Facebook Icon"
  />
  <Image
    source={require("../assets/twitter.png")}
    w="$5"
    h="$5"
    alt="Facebook Icon"
  />
  <Image
    source={require("../assets/search.png")}
    w="$5"
    h="$5"
    alt="Search Icon"
  />
</HStack>
</HStack>
</Box>
</SafeAreaView>
);
};

export default Header;

```

## 2.9 Inisialisasi index.js pada Direktori /components

- Terapkan pada file **/components/index.js** kode program React Native di bawah ini.

```
import Header from "../header";

export { Header };
```

## 2.10 Screen Home

- Terapkan pada file **/app/(tabs)/home.js** kode program React Native di bawah ini.

```
import { Heading, FlatList, Box, Text, Image } from "@gluestack-ui/themed";
import { Header } from "../../components";
import { ScrollView } from "react-native";
import datas from "../../datas";
import { Link } from "expo-router";
import { TouchableOpacity } from "react-native";

const Home = () => {
  const renderItem = ({ item }) => {
    return (
      <Link
        href={{
          pathname: "/news-detail",
          params: item,
        }}
        asChild
      >
        <TouchableOpacity activeOpacity={0.5}>
          <Box
            p={"$4"}
            borderBottomColor={"$coolGray300"}
            borderBottomWidth={1}
            flexDirection="row"
            flex={1}
          >
            <Box flex={1} mr={"$4"}>
              <Image
                source={{ uri: item.image }}
                w="$full"
                h="$full"
                alt="Image Data"
              />
            </Box>
            <Box flex={1.8}>
              <Text fontSize={"$sm"}>{item.date}</Text>
              <Heading lineHeight={"$md"} fontSize={"$md"}>
                {item.title}
              </Heading>
            </Box>
          </TouchableOpacity>
        </Link>
      )
    );
  };

  return (
    <ScrollView>
      <Header />
      <FlatList
        data={datas}
        renderItem={renderItem}
      />
    </ScrollView>
  );
};
```

```

    );
  };

  return (
    <>
    <Header title={"News"} />
    <Box py={"$4"} bg={"$red700"}>
      <ScrollView horizontal={true} showsHorizontalScrollIndicator={false}>
        {datas.slice(14).map((item, index) => {
          return (
            <Link
              href={{
                pathname: "/news-detail",
                params: item,
              }}
              key={index}
              asChild
            >
              <TouchableOpacity activeOpacity={0.5}>
                <Box w={"$48"} mr={"$4"} ml={index == 0 ? "$4" : "0"}>
                  <Image
                    source={{ uri: item.image }}
                    w={"$full"}
                    alt="Image Data"
                    mb={"$2"}
                  />
                  <Text fontSize={"$xs"} color={"$textLight300"}>
                    {item.date}
                  </Text>
                  <Heading
                    fontSize={"$sm"}
                    lineHeight={"$xs"}
                    ellipsizeMode="tail"
                    numberOfLines={2}
                    color={"$textLight50"}
                  >
                    {item.title}
                  </Heading>
                </Box>
              </TouchableOpacity>
            </Link>
          );
        })}
      </ScrollView>
    </Box>
    <FlatList
      data={datas}
      renderItem={renderitem}
      keyExtractor={(item) => item.id}
      showsVerticalScrollIndicator={false}
    />
  </>
);
};

export default Home;

```

## 2.11 Screen For You

- Terapkan pada file **/app/(tabs)/for-you.js** kode program React Native di bawah ini.

```
import { Center, Heading } from "@gluestack-ui/themed";
import { Header } from "../../components";

const ForYou = () => {
  return (
    <>
      <Header title={"For You"} />
      <Center flex={1}>
        <Heading>For You</Heading>
      </Center>
    </>
  );
};

export default ForYou;
```

## 2.12 Screen Video

- Terapkan pada file **/app/(tabs)/video.js** kode program React Native di bawah ini.

```
import { Center, Heading } from "@gluestack-ui/themed";
import { Header } from "../../components";

const Video = () => {
  return (
    <>
      <Header title={"Video"} />
      <Center flex={1}>
        <Heading>Video</Heading>
      </Center>
    </>
  );
};

export default Video;
```

## 2.13 Screen Profile

- Terapkan pada file **/app/(tabs)/profile.js** kode program React Native di bawah ini.

```
import { Center, Heading } from "@gluestack-ui/themed";
import { Header } from "../../components";
```

```
const Profile = () => {
  return (
    <>
      <Header title={"Profile"} />
      <Center flex={1}>
        <Heading>Profile</Heading>
      </Center>
    </>
  );
};

export default Profile;
```

## 2.14 Screen News Detail

- Terapkan pada file `/app/news-detail.js` kode program React Native di bawah ini.

```
import { Heading, Text, Center } from "@gluestack-ui/themed";
import { Header } from "../components";
import { useLocalSearchParams } from "expo-router";

const NewsDetail = () => {
  const params = useLocalSearchParams();
  return (
    <>
      <Header title={"News"} withBack={true} />
      <Center flex={1} padding={"$4"}>
        <Heading>News Detail</Heading>
        <Text textAlign="center">{params.title}</Text>
      </Center>
    </>
  );
};

export default NewsDetail;
```

## 3. Tugas

1. Praktekkan seluruh poin praktikum yang ada di atas.
2. **Edit** dan **sesuaikan** Screen **News Detail** sehingga dapat menampilkan **image**, **date**, **title** dan **content** berdasarkan News yang diklik, seperti gambar di bawah ini.



3. Dokumentasikan hasil praktikum tersebut (**screenshot kode program, output pada browser, penjelasan kode program yang ditulis**) dalam bentuk Laporan Praktikum.
4. Letakkan source code hasil praktikum dan hasil tugas praktikum (no. 2) ke **Github**. Sertakan info **link repository** source code nya pada Laporan Praktikum.
5. Kumpulkan Laporan Praktikum (**.pdf**) via E-Learning paling lambat sebelum jadwal praktikum minggu depan.