Mobile Applications

lab 3

Stack Navigation, React Native Elements

THEORY

1. React Native Navigation

a) Documentation Page - https://reactnavigation.org/docs/getting-started/

b) To use navigation you have to: to your project

- install required dependencies by "npm install @react-navigation/native"

- add NavigationContainer component to the main file (App.js)

    \<NavigationContainer\>

    //rest of code

    \</NavigationContainer\>

c) To use Stack Navigation you have to:

- install required dependencies:

    1) npm install @react-navigation/stack

    2) expo install react-native-gesture-handler

    3) npm install @react-native-masked-view/masked-view

- declare const Stack: const Stack = createStackNavigator();

- add Stack.Navigator component inside Navigation Container

    \<Stack.Navigator\>

    \</Stack.Navigator\>

- add screens to the navigator

    \<Stack.Navigator\>

    　　\<Stack.Screen name="Home" component={Home} /\>

    　　\<Stack.Screen name="Notifications" component={Notifications} /\>

    \</Stack.Navigator\>

d) In child components add props "navigation"

e) navigate to other components by calling navigation.navigate('componentName')

2. React Native Elements UI Components

https://reactnativeelements.com/docs/

To use in the project, install by "npm install react-native-elements"
Use components according to the documentation

PRACTICAL

1. Read the documentation about:
   - React Native Navigation and Stack Navigator
   - React Native Elements UI Components

2. Create sample project with:
   - at least three screens possible to navigate between them
   - screens have only links to other screens
   - test if the navigation works

3. Create another project containing React Native Elements UI Components with the login page (inputs for a login and a password, button to login). After login (data should be checked if is OK) the application should navigate to the main page containing personal data as:
   - avatar with a sample image (from the web)
   - name
   - list of hobbies (rendered from the array of objects { 'hobby' : 'ski', 'icon': 'icon_name' })

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