Mobile Applications

lab 2

THEORY

1. How to start?

a) To create new project:

- open console,
- go to your working directory
- type *expo init <yourAppName>*
- choose an appropriate project from a template (blank, navigation etc.)
- go to project directory *cd <yourAppName>*
- start expo server by typing *expo start*
- Run the application on the Android Emulator

b) Launch IDE and open your new project.

c) Open React Native documentation (*https://reactnative.dev/*)

2. UI Components

All screens are built from many UI components like <View>, <Text>, <Button> etc. Descriptions of them you can find in the documentation. Default usage of the component may be copied from the documentation example. Important! You have to remember about importing Components into the *import* section (top of page).

```
import React from 'react';
import { Text, View } from 'react-native';


const YourApp = () => {
  return (
    <View style={{ flex: 1, justifyContent: "center", alignItems: "center" }}>
      <Text>
        Try editing me!
      </Text>
    </View>
  );
}
export default YourApp;
```

PRACTICAL

1. Read the documentation about:
   a. React Native app
   b. Components: View, ScrollView, Text, Button, Image
   c. Read about State Hook
      (*https://reactnative.dev/docs/next/intro-react#state*)
2. Create sample project
   a. create empty expo project
   b. add components with text to display name of the app's author (text should be styled by styles)
3. Create another project
   a. create empty expo project

b. add a Text component displaying text kept in state ("Not pressed"

c. add a Button component titled "Change Text". OnPress function should change the State value to "Pressed"

4. Create another project

a. create empty expo project

b. add a Image component containing sample Icon from the Web

c. add a Button component titled "Change Picture". OnPress function should change picture in the Image component

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