

Mobile Application Development Sessional Course Topic Covered **(From 1st class to last class)**

A. Environment Setup & Create empty project:

1. Environment Setup

- a. First, install Node JS (Version above 16) from the <https://nodejs.org/en> website. Then install the **react native cli & expo** with the following command from the CMD in your computer.
 - i. npm install -g react-native-cli
 - ii. npm install -g expo-cli

2. Create empty project & run:

- i. npx create-expo-app@latest --template
- a. Run this command in CMD with a location in your computer where you keep your project. Then, choose a template to select blank and press enter. After a few minutes, your project is created in your specified location.
- b. To run your project, open your newly created project in Visual Studio Code and type "npm start" in the terminal & that's it.

B. React Native Basic Syntax (From <https://reactnative.dev/docs/0.71/getting-started>):

1. The Basics:

- a. Introduction
- b. Core Components and Native Components
- c. React Fundamentals
- d. Handling Text Input
- e. Using a ScrollView
- f. Using List Views

2. UI & Interaction:

- a. Style
- b. Height & Width
- c. Layout with Flexbox
- d. Images
- e. Connectivity -> Networking (For API Connection)

3. **Routing** -> This is discussed from the react native login template project.

C. Run Project:

1. React Native Login Template:

- a. Extract the project from the zip file.
- b. Open with vs code
- c. Run the command "**npm install**"
- d. Then Run the command to start the project "**npm start**" & press w to open

in web.

2. Calculator:

- a. Extract the project from the zip file.
- b. Paste all the files that extracted from the zip file to a newly created project
(To create new project follow the above step)
- c. Install dependency to run the following command
 - i. npm install expo-linear-gradient
 - ii. npm install @expo/vector-icons
- d. Then Run the command to start the project “npm start” & press w to open in web.

3. Stopwatch:

- a. Extract the project from the zip file.
- b. Paste all the files that extracted from the zip file to a newly created project
(To create new project follow the above step)
- c. Then Run the command to start the project “npm start” & press w to open in web.

4. Todo:

- a. Extract the project from the zip file.
- b. Paste all the files that extracted from the zip file to a newly created project
(To create new project follow the above step)
- c. Then Run the command to start the project “npm start” & press w to open in web.