

## 2023 – Practical – React Native

### Introduction:

In this practical you are required to create a To-do list application using React Native. For the application you need to integrate firebase to authenticate users and maintain to-dos in a database.

### Objectives:

The objective of this lab is to implement Firebase Authentication and Datastore in a React Native app.

### Requirements:

1. A computer installed with latest Nodejs
2. Android Studio or any kind of emulator to run the application
3. Firebase account

### Steps:

- Create a new React Native project. For this recommended method is using expo. But if you are familiar with react-native-cli use that.
- Create a Firebase project and enable Firebase Authentication.
- Implement Firebase Authentication in the app by adding the necessary Firebase code.
- Test Firebase Authentication by creating a user account and logging in.
- Implement the necessary components for creating, updating, and deleting To-dos.
- Connect the To-do app to Firebase by adding the necessary Firebase code.
- Test the To-do app by creating, updating, and deleting To-dos.
- Make sure to implement the UIs for login, add to do item, display to do items, update, and delete them.

### Tips:

- Use the Tutorials and official documentation as guides
- <https://docs.expo.dev/guides/using-firebase/>