



*Helwan University - Faculty of Engineering
Computer Engineering and Systems Department*

*Assignment_01
To-Do List*

Submitted to:

Eng. Rania El-Sayed

Prepared By:

Hamsa Ragheb Abdullah Ragheb

1. Introduction

This report documents the process of creating and running a simple React Native (Expo) “To-Do List” app, named **MyFirstMobileApp**. It includes:

- Environment setup
 - Project creation with **create-expo-app**
 - Editing code in **Visual Studio Code**
 - Running the app on **Expo** (both browser preview and mobile)
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2. Tools and Prerequisites

1. **Node.js** (LTS version)
 2. **Expo CLI** (installed automatically with create-expo-app)
 3. **Visual Studio Code** (VS Code)
 4. **Git** (optional, for version control)
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3. Project Creation

3.1. Create a Folder (No Spaces)

- I created a folder on my drive (e.g., D:\ReactProjects) to store the project.

3.2. Open Command Prompt

- Opened **Command Prompt** (on Windows).

3.3. Run create-expo-app

```
cd D:\ReactProjects  
npx create-expo-app MyFirstMobileApp
```

- This command downloads and sets up a new Expo project called **MyFirstMobileApp**.
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4. Opening the Project in VS Code

1. **Launch VS Code.**
 2. Go to **File > Open Folder...**
 3. Select the **MyFirstMobileApp** folder you just created.
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5. Installing Dependencies (Optional Check)

Inside VS Code, open the built-in terminal (**View > Terminal**), then:

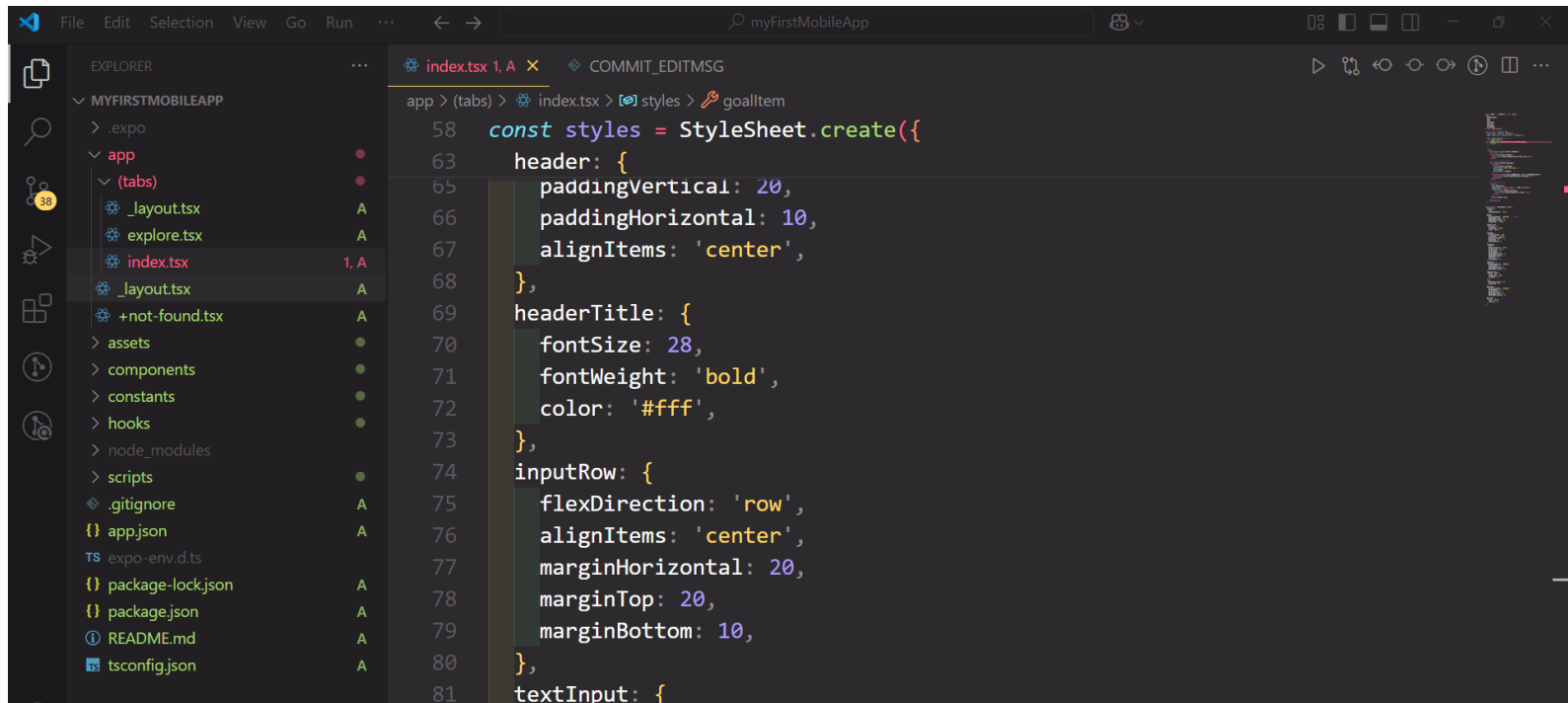
```
cd MyFirstMobileApp  
npm install
```

This ensures all packages are correctly installed.

6. Coding the App

In this project, the main file is typically **App.js** (or **App.tsx**).

Screenshot:



The screenshot shows a code editor interface with a dark theme. On the left, the 'EXPLORER' sidebar displays the file structure of a project named 'MYFIRSTMOBILEAPP'. The files listed include: .expo, app (expanded), (tabs) (expanded), _layout.tsx, explore.tsx, index.tsx (selected), _layout.tsx, +not-found.tsx, assets, components, constants, hooks, node_modules, scripts, .gitignore, app.json, expo-env.d.ts, package-lock.json, package.json, README.md, and tsconfig.json. The main editor area shows the 'index.tsx' file with the following code:

```
58 const styles = StyleSheet.create({
63   header: {
65     paddingVertical: 20,
66     paddingHorizontal: 10,
67     alignItems: 'center',
68   },
69   headerTitle: {
70     fontSize: 28,
71     fontWeight: 'bold',
72     color: '#fff',
73   },
74   inputRow: {
75     flexDirection: 'row',
76     alignItems: 'center',
77     marginHorizontal: 20,
78     marginTop: 20,
79     marginBottom: 10,
80   },
81   textInput: {
```

7. Running the App in Browser

7.1. Start the Development Server

In the VS Code terminal:

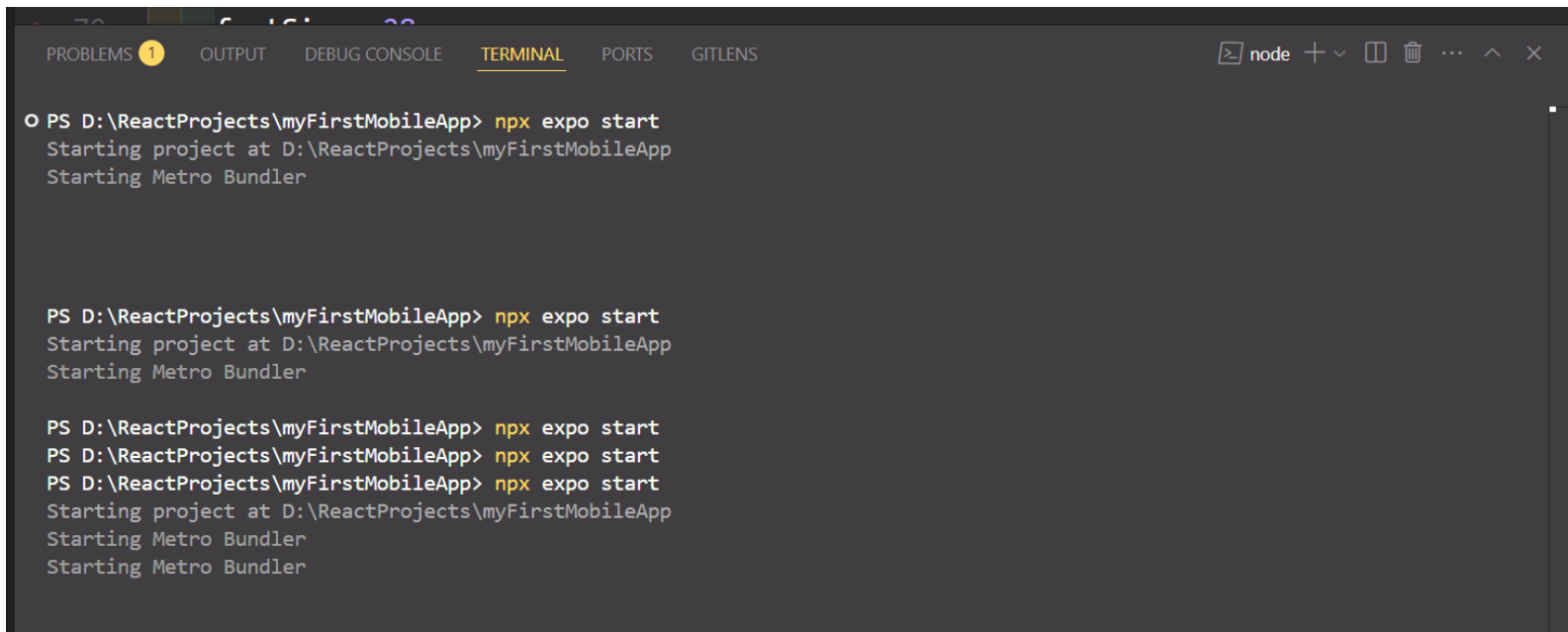
```
npm start  
or  
npx expo start
```

- This opens the **Expo DevTools** in your browser and shows a QR code in the terminal.

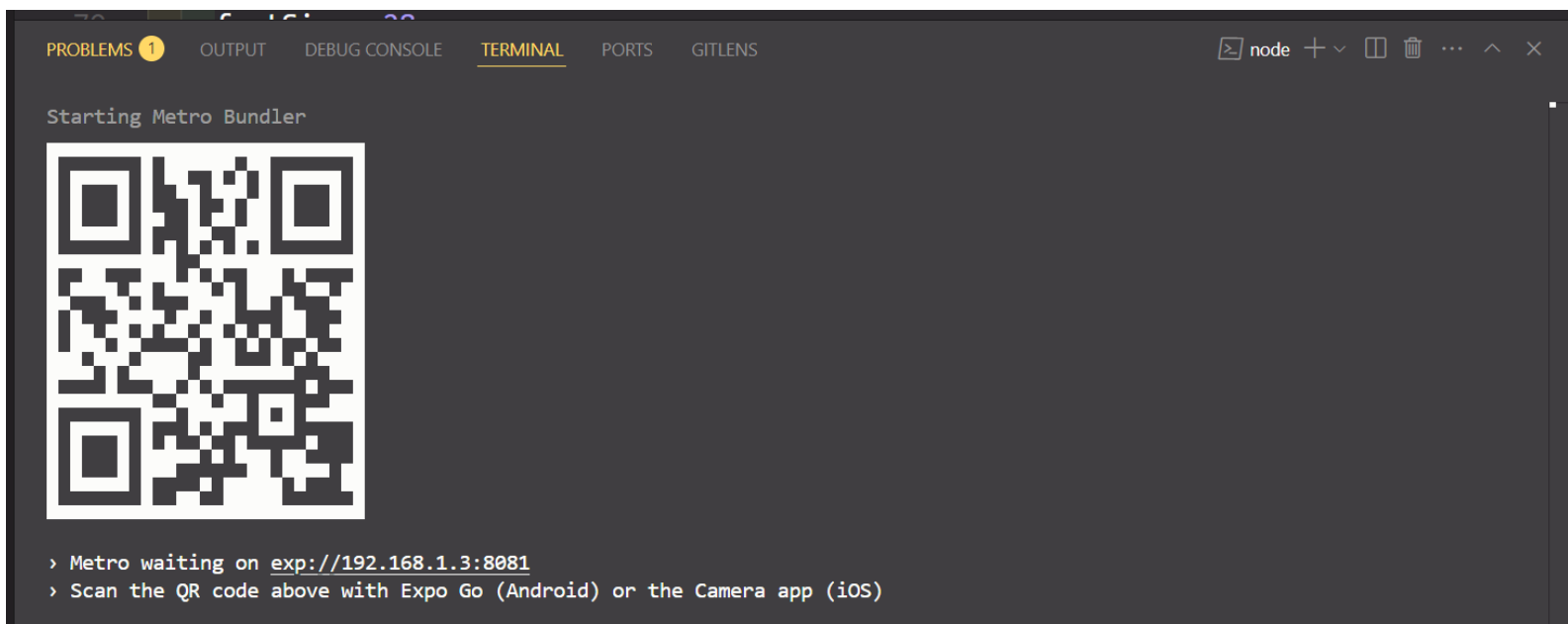
7.2. Open Web Preview

- In the terminal, press **w** to launch a **web** version of the app in your default browser.

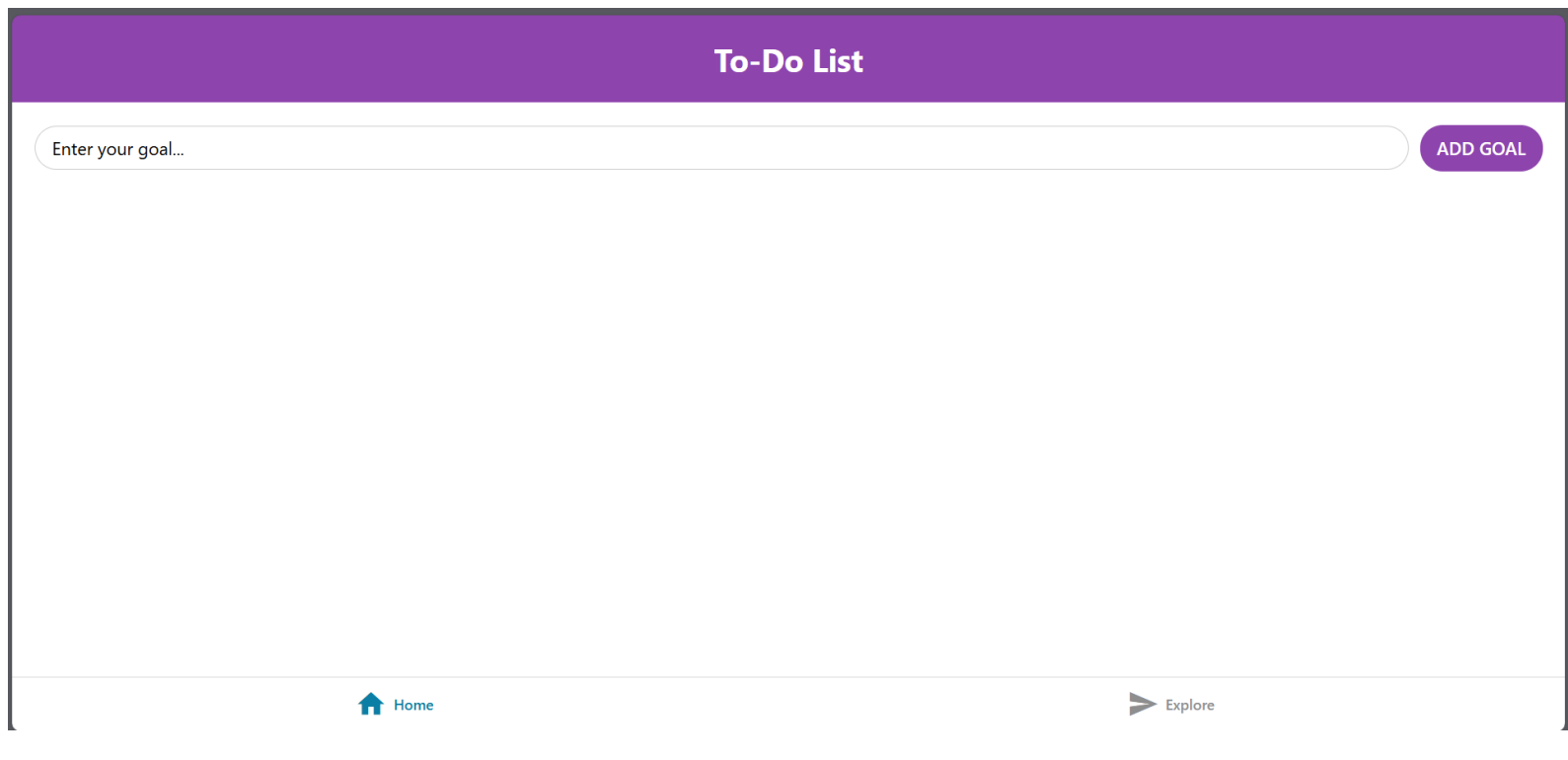
Screenshots :



```
PS D:\ReactProjects\myFirstMobileApp> npx expo start  
Starting project at D:\ReactProjects\myFirstMobileApp  
Starting Metro Bundler  
  
PS D:\ReactProjects\myFirstMobileApp> npx expo start  
Starting project at D:\ReactProjects\myFirstMobileApp  
Starting Metro Bundler  
  
PS D:\ReactProjects\myFirstMobileApp> npx expo start  
PS D:\ReactProjects\myFirstMobileApp> npx expo start  
PS D:\ReactProjects\myFirstMobileApp> npx expo start  
Starting project at D:\ReactProjects\myFirstMobileApp  
Starting Metro Bundler  
Starting Metro Bundler
```



```
Starting Metro Bundler  
  
[QR Code]  
  
> Metro waiting on exp://192.168.1.3:8081  
> Scan the QR code above with Expo Go (Android) or the Camera app (iOS)
```



8. Optional: Running on a Mobile Device

1. Install **Expo Go** on your phone (iOS or Android).
2. Ensure your phone and computer are on the **same Wi-Fi** network.
3. Scan the QR code from the terminal or DevTools with Expo Go.
4. Your app will load on the device

