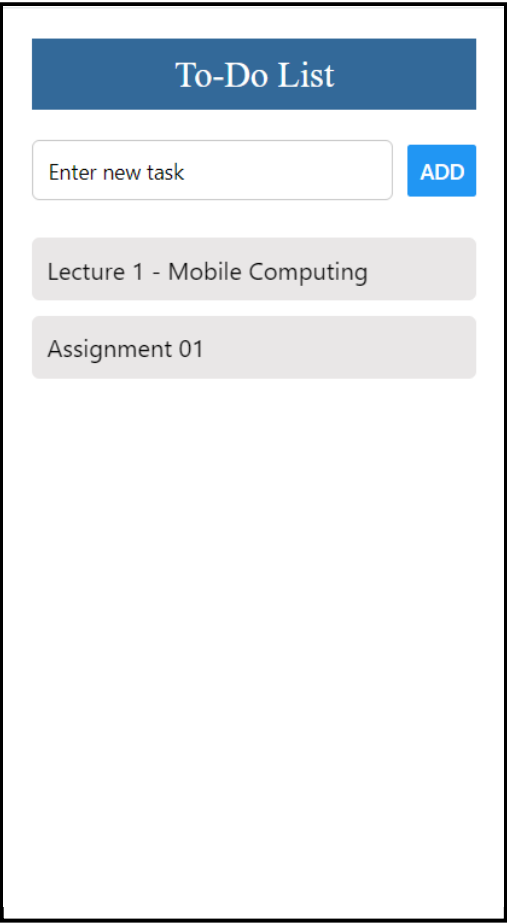# Name: Amr Hossam Mohamed Younes

## React Native To-Do List

### Introduction

This report provides an analysis of a React Native To-Do List application. The application enables users to add tasks to a list dynamically using a simple user interface.

### Screenshot



### Code Overview

The application is implemented using React Native. It utilizes functional components and hooks to manage state and user interactions.

### Functional Components

1. **State Management:**

   ○ `useState` is used to manage the list of tasks (`tasks`) and the current input value (`newTask`).

2. **Event Handling:**

   ○ `handleInputChange`: Updates `newTask` whenever the user types in the input field.

      o `addTask`: Adds the entered task to the list if it is not empty and clears the input field.

   3. **Rendering UI Elements:**

      o `TextInput` is used for user input.
      o `Button` is used to trigger the addition of a new task.
      o `FlatList` displays the list of tasks dynamically.

## Key Features

- **User-friendly Interface**: The application provides a simple and clear layout for task management.
- **State Management with Hooks**: `useState` ensures efficient state updates.
- **Dynamic List Rendering**: `FlatList` ensures optimized rendering of the to-do list.
- **Minimalistic and Readable Code**: The component structure and function names make the code easy to understand and maintain.