Mobile Computing Lab 01 Report

1. Project Overview

A simple To-Do List (Goals App) built using **Flutter Framework**. The application allows users to add goals, mark them as complete, and delete them.

2. Color Palette

Color Name	Hex Code	Usage
Background Dark	#121212	Main background
Card Dark	#1E1E1E	Goal cards, input section
Input Field	#2C2C2C	Text input background
Primary Purple	#9C27B0	Header, buttons, accents
Light Purple	#BB86FC	Secondary accents
Pink Accent	#E040FB	Button gradient
Success Green	#4CAF50	Completed goals
Delete Red	#D32F2F	Swipe to delete
White	#FFFFFF	Text, icons
Grey	#9E9E9E	Hints, timestamps

3. Fonts Used

Font Name	File	Weight	Usage
Poppins	Poppins-Regular.ttf	400 (Regular)	Body text, goal items, hints
Poppins	Poppins-SemiBold.ttf	600 (SemiBold)	Subtitles, counters
Poppins	Poppins-Bold.ttf	700 (Bold)	Headers, titles

Font Source: Google Fonts - Poppins 🔗

4. Application Components

#	Component	Flutter Widget	Purpose
1	Title	Text	Displays "My To-Do List" header

#	Component	Flutter Widget	Purpose
2	Text Input	`TextField`	Input field for entering goals
3	Add Button	`GestureDetector` + `Container`	Adds goal to the list
4	Goals List	`ListView.builder`	Displays scrollable list of goals

5. State Management
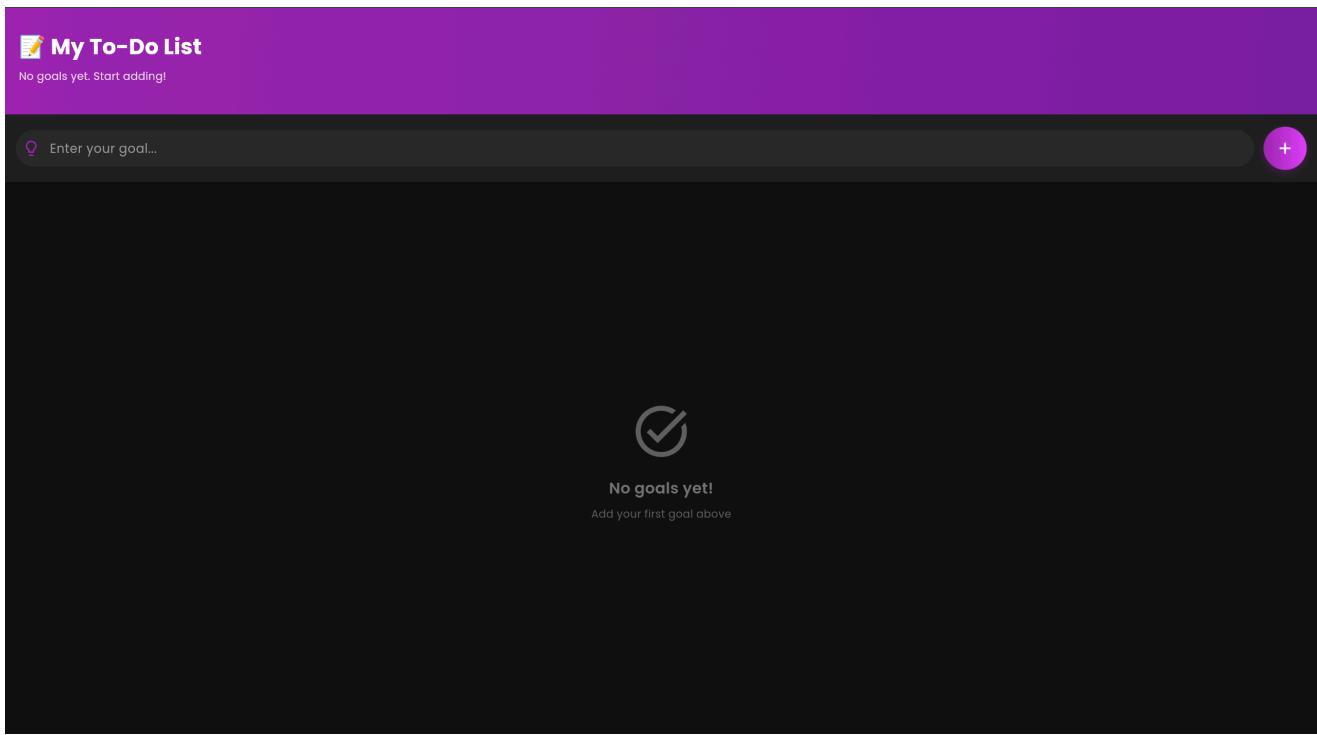
#	State Variable	Type	Purpose
1	`_textController`	`TextEditingController`	Handles text input changes
2	`_goals`	`List<Goal>`	Stores all goals in the list

6. Functions
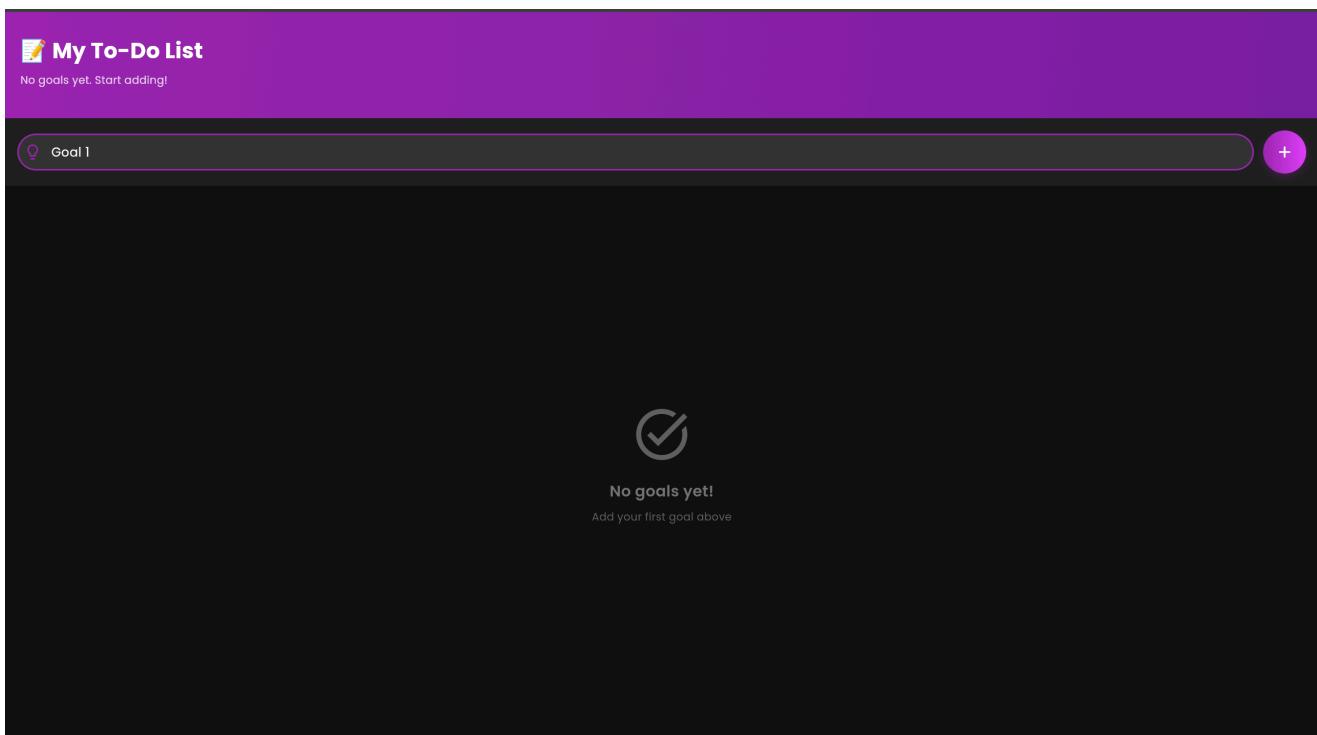
| #	Function	Purpose
1	`_addGoal()`	Handles button click - validates input and adds goal to list
2	`_toggleGoal(index)`	Marks goal as complete/incomplete
3	`_deleteGoal(index)`	Removes goal from list
4	`_formatTime(dateTime)`	Formats timestamp for display

7. Screenshots
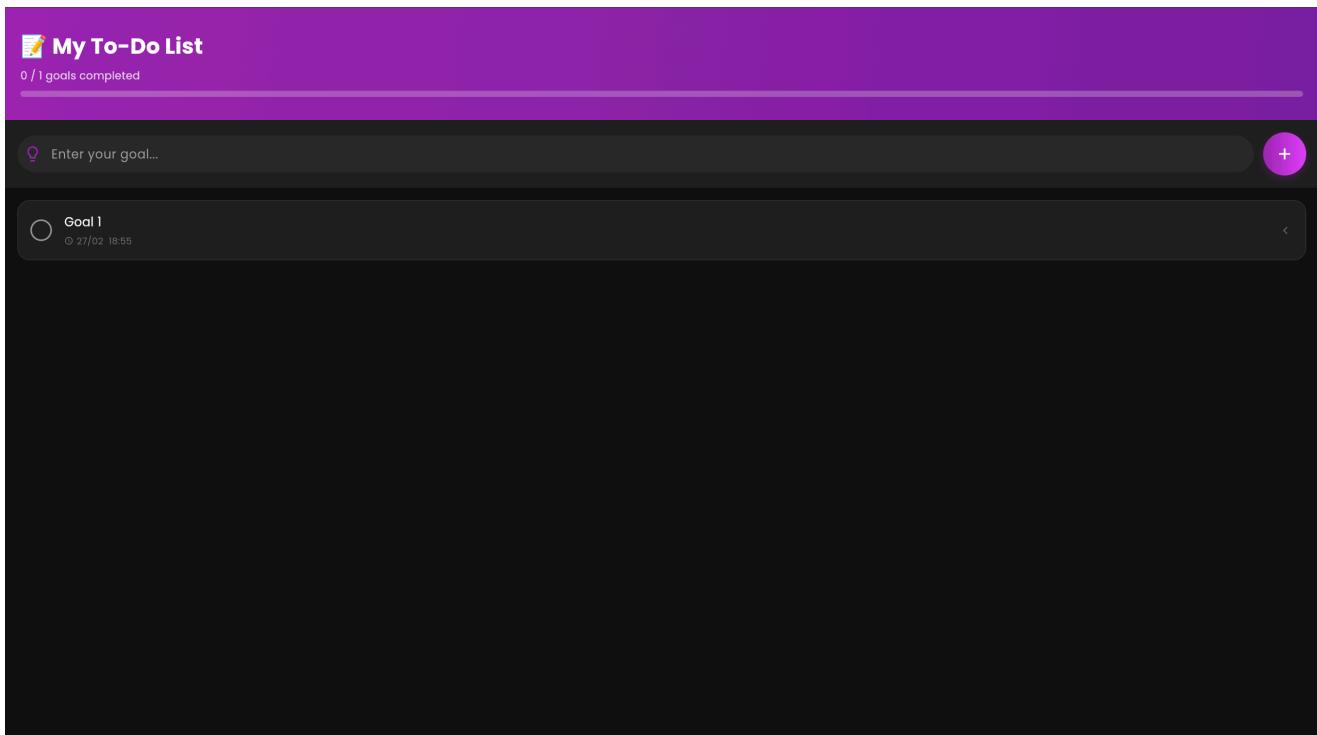
7.1 Empty State - App Launch

📝 My To-Do List

No goals yet. Start adding!

💡 Enter your goal...   +

3 / 6

No goals yet!
Add your first goal above

7.2 Typing a Goal

📝 My To-Do List

No goals yet. Start adding!

💡 Goal 1   +

No goals yet!
Add your first goal above

7.3 Goal Added to List

📝 **My To-Do List**

0 / 1 goals completed

💡 Enter your goal...   +

○ Goal 1
   🕓 27/02 18:55

4 / 6

7.4 Multiple Goals Added

📝 **My To-Do List**

0 / 3 goals completed

💡 Enter your goal...   +

○ Goal 1
   🕓 27/02 18:55

○ Goal 2
   🕓 27/02 18:55

○ Goal 3
   🕓 27/02 18:55
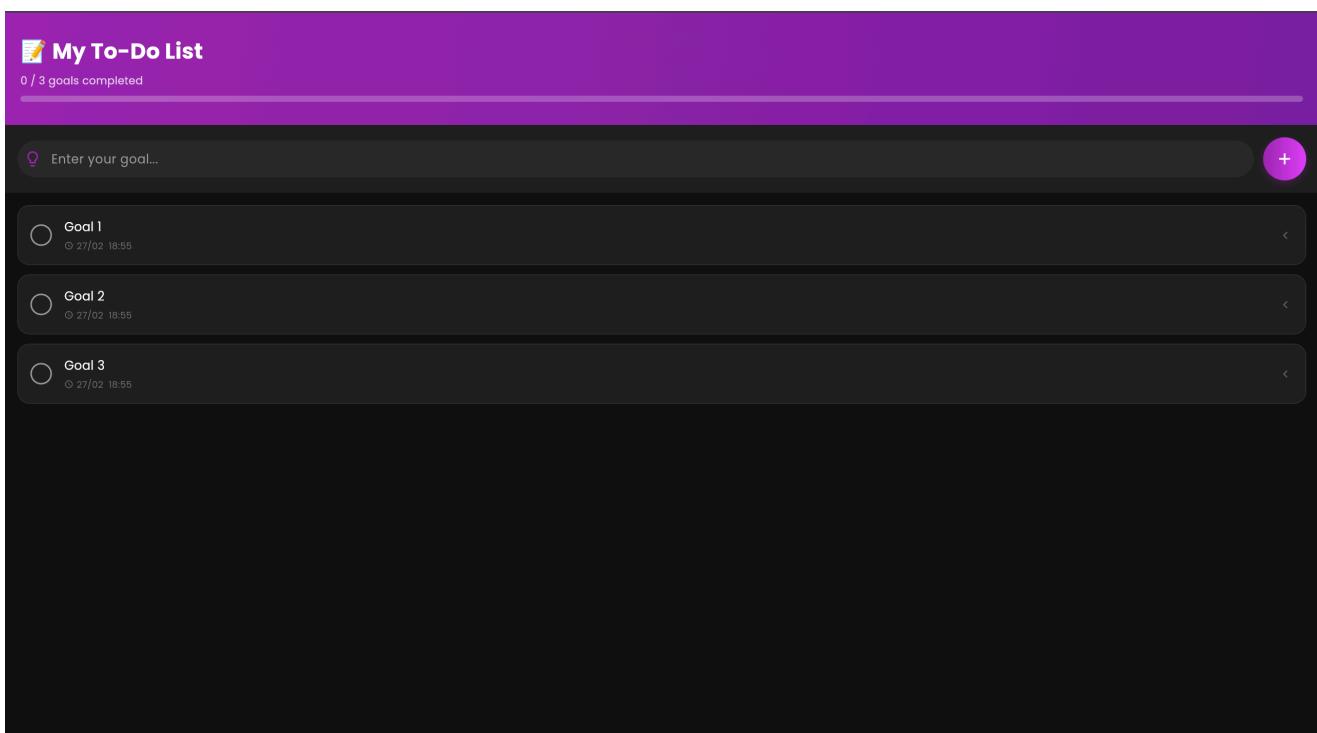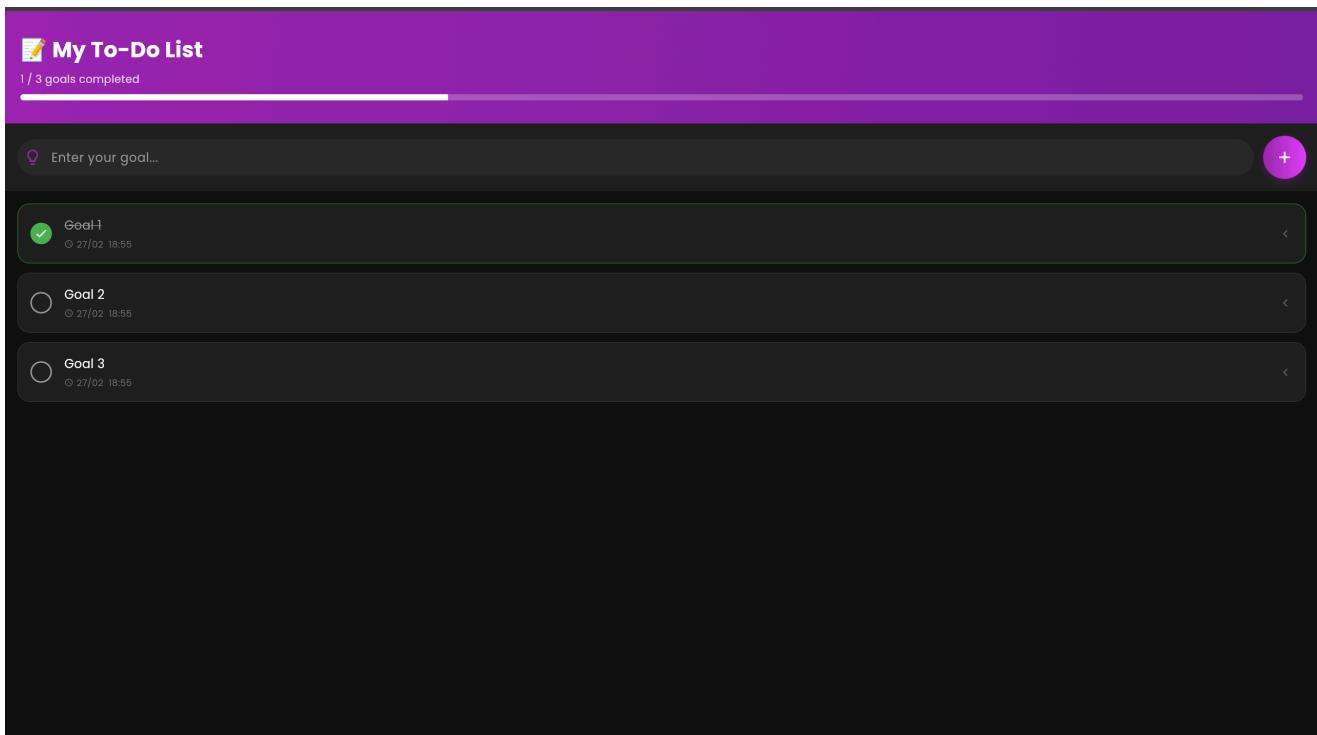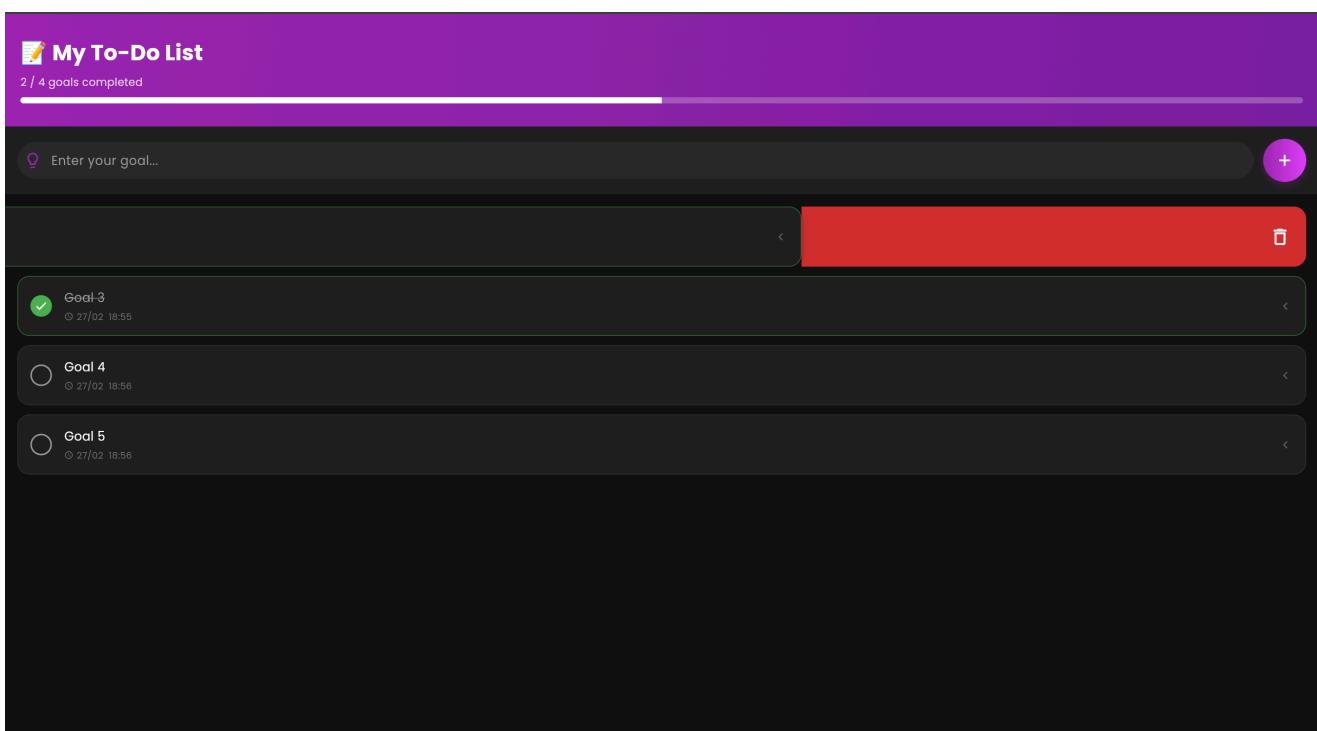
7.5 Marking Goal as Complete

📝 **My To-Do List**

1 / 3 goals completed

💡 Enter your goal...   +

✅ ~~Goal 1~~
🕐 27/02 18:55   ‹

⭕ Goal 2   5 / 6
🕐 27/02 18:55   ‹

⭕ Goal 3
🕐 27/02 18:55   ‹

7.6 Progress Tracker

📝 **My To-Do List**

3 / 5 goals completed

7.7 Swipe to Delete Action

📝 **My To-Do List**

2 / 4 goals completed

💡 Enter your goal...   +

‹   🗑

✅ ~~Goal 3~~
🕐 27/02 18:55   ‹

⭕ Goal 4
🕐 27/02 18:56   ‹

⭕ Goal 5
🕐 27/02 18:56   ‹

7.8 Empty Input Validation

📝 **My To-Do List**

2 / 4 goals completed

💡 Enter your goal...

✚

✅ ~~Goal 2~~
🕐 27/02 18:55

‹

✅ ~~Goal 3~~
🕐 27/02 18:55

6 / 6

‹

◯ Goal 4
🕐 27/02 18:56

‹

◯ Goal 5
🕐 27/02 18:56

‹

⚠ Please enter a goal!