National University of Modern Languages, Islamabad

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Roll Number:	**2751**
Subject:	**MAD**
Due Date:	**6st October 2025**
Semester:	**8th**
Course:	**BSCS, Morning**

Faculty of Engineering and Computer Science

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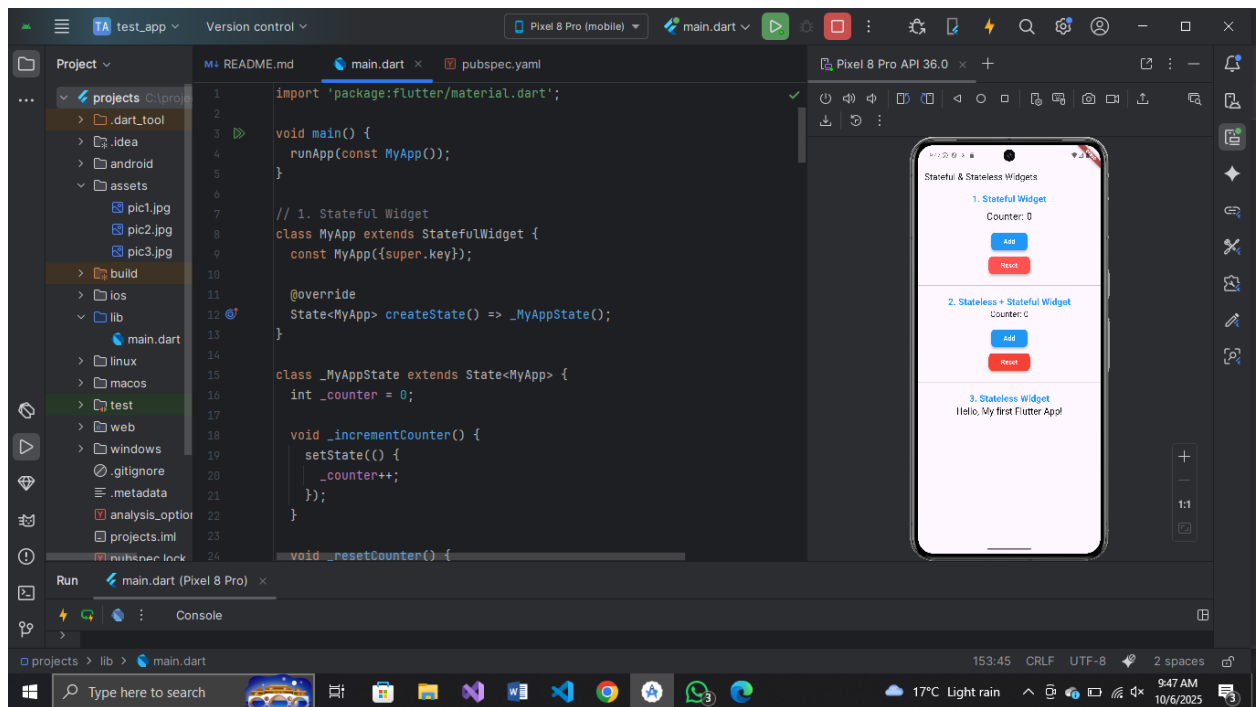
1. Lab Task 1

Statefull
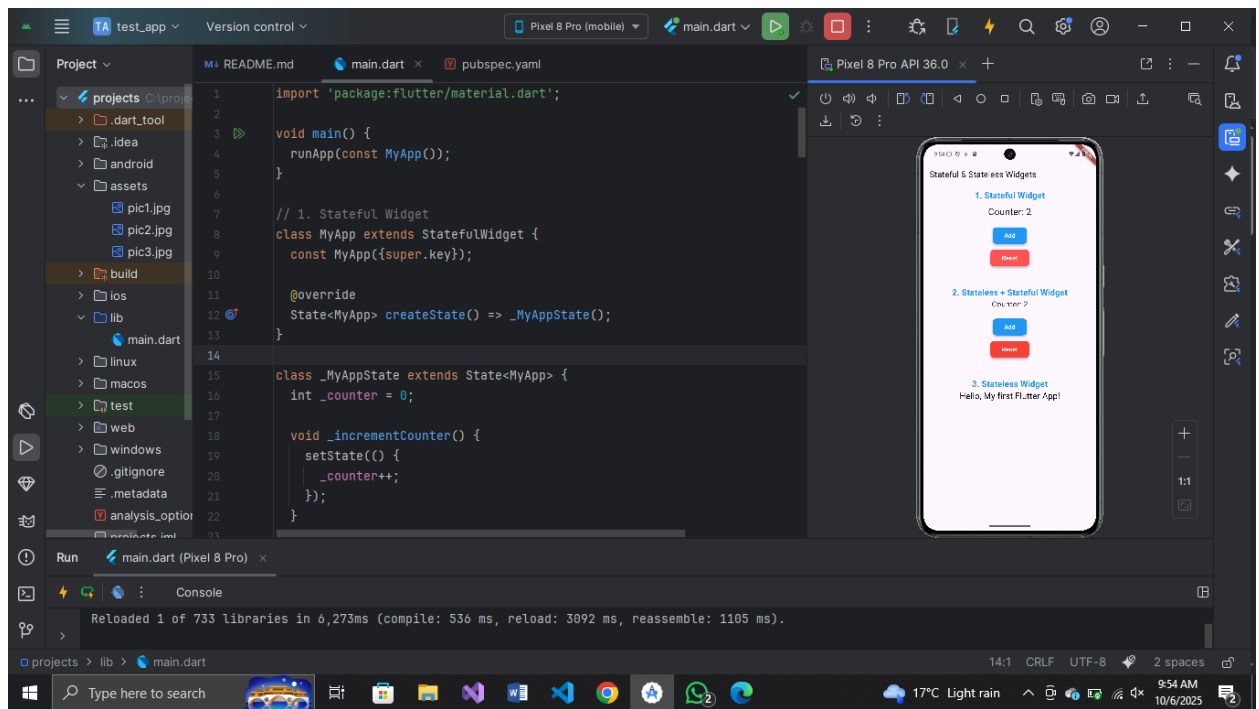Statefull and stateless
Stateless

1.1 Description

This Flutter app demonstrates the **difference between Stateful and Stateless widgets** using three simple examples displayed on one screen:
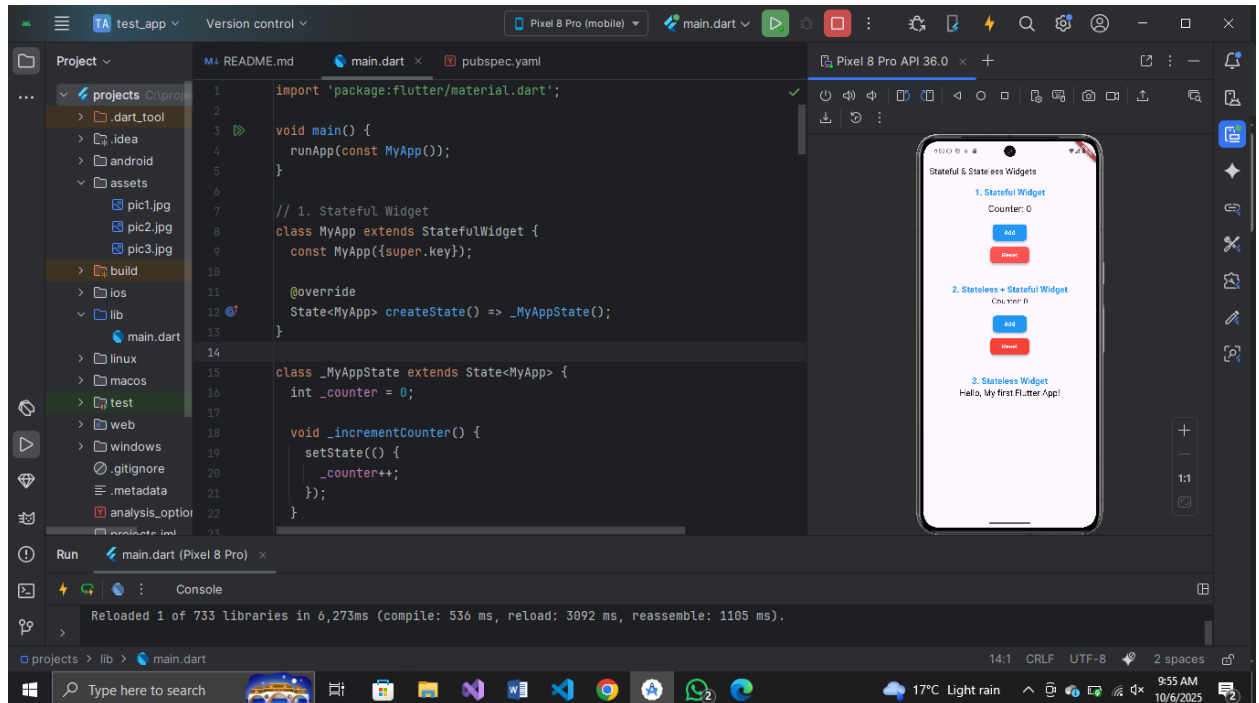
1. **Stateful Widget** – A counter that updates dynamically when the "Add" or "Reset" buttons are pressed. It manages its own state using setState().

2. **Stateless + Stateful Widget** – Combines a stateless parent widget with a stateful child widget (CounterScreen) to show how data and callbacks can be passed between widgets.

3. **Stateless Widget** – Displays a static greeting message (GreetingWidget) that doesn't change since it has no internal state.
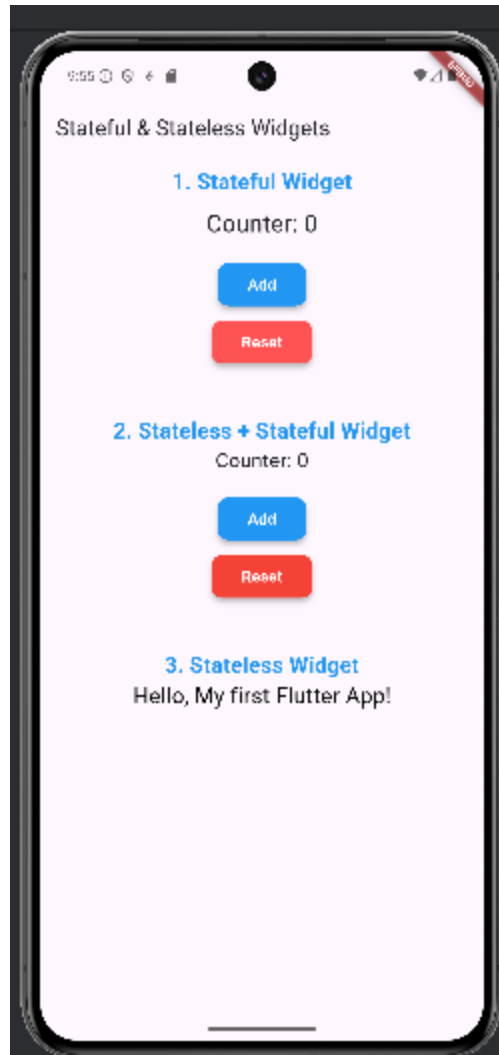
1.2 Screenshots

On clicking the add button the counter value increments

On clicking reset the counter value is set to zero

This is the overall application