Aim : To design flutter UI by including common widgets.

Creating a new flutter project

main.**dart**

Adding virtual device: Configuring a virtual device (emulator) for testing the Flutter app.
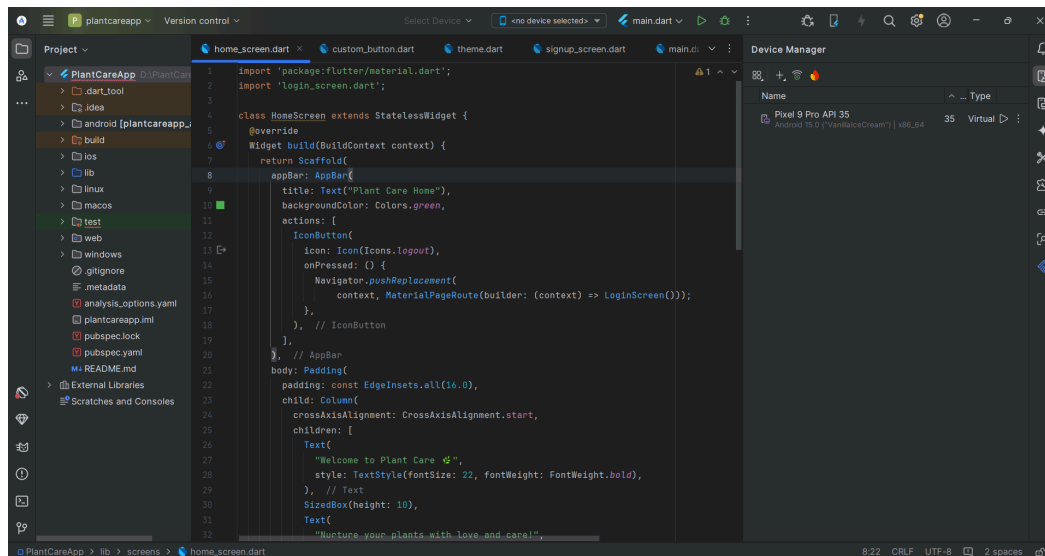
File structure: Displaying the organized directory structure of the Flutter project.

Project

PlantCareApp D:\PlantCare
- .dart_tool
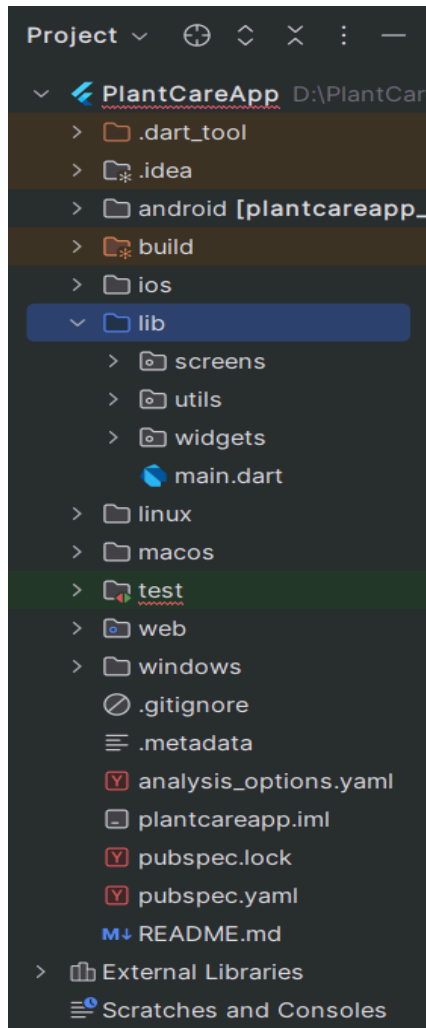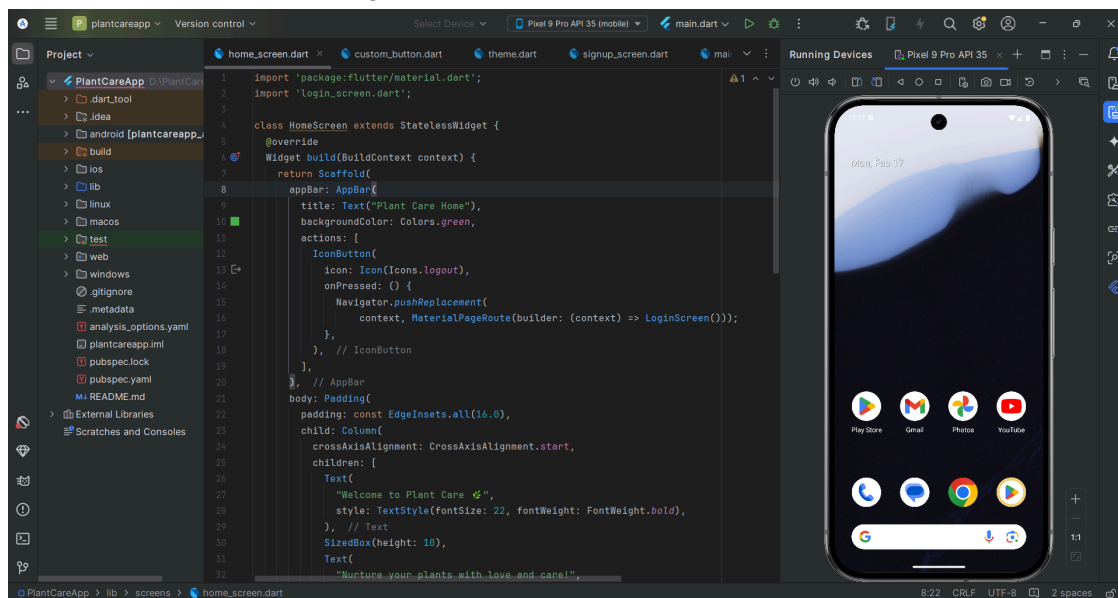- .idea
- android [plantcareapp_
- build
- ios
- lib
  - screens
  - utils
  - widgets
  - main.dart
- linux
- macos
- test
- web
- windows
- .gitignore
- .metadata
- analysis_options.yaml
- plantcareapp.iml
- pubspec.lock
- pubspec.yaml
- README.md
- External Libraries
- Scratches and Consoles

Start the emulator: Running the emulator to test and visualize the Flutter UI.

```dart
import 'package:flutter/material.dart';
import 'login_screen.dart';

class HomeScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text("Plant Care Home"),
        backgroundColor: Colors.green,
        actions: [
          IconButton(
            icon: Icon(Icons.logout),
            onPressed: () {
              Navigator.pushReplacement(
                context, MaterialPageRoute(builder: (context) => LoginScreen()));
            },
          ), // IconButton
        ],
      ), // AppBar
      body: Padding(
        padding: const EdgeInsets.all(16.0),
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.start,
          children: [
            Text(
              "Welcome to Plant Care 🌿",
              style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold),
            ), // Text
            SizedBox(height: 10),
            Text(
              "Nurture your plants with love and care!",
```
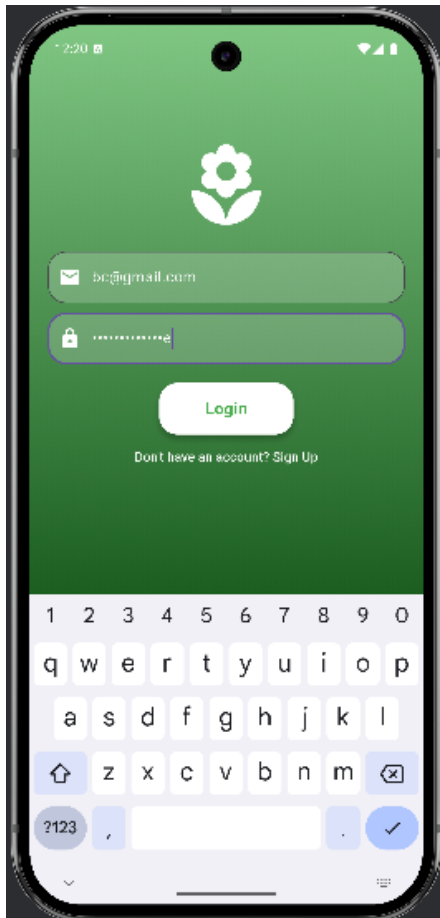
Sign-up page with widgets and buttons: User-friendly signup with text fields and buttons.
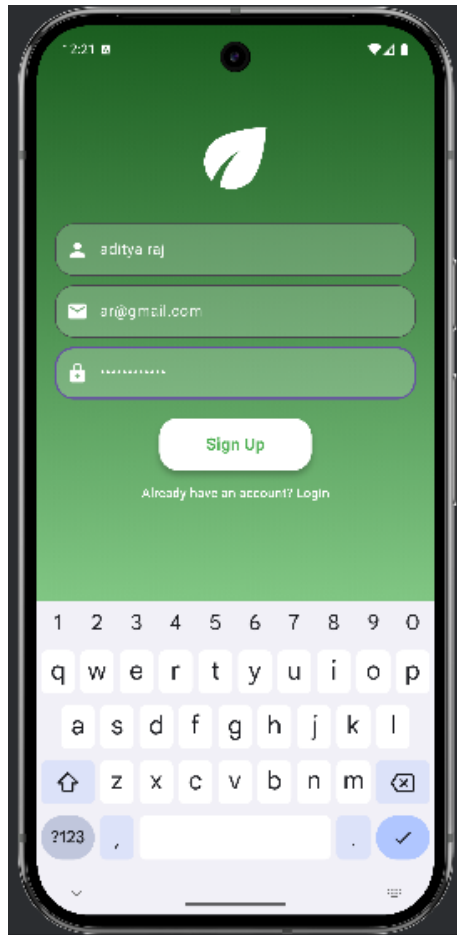

Adding icons in UI: Enhancing the interface with icons for better user experience
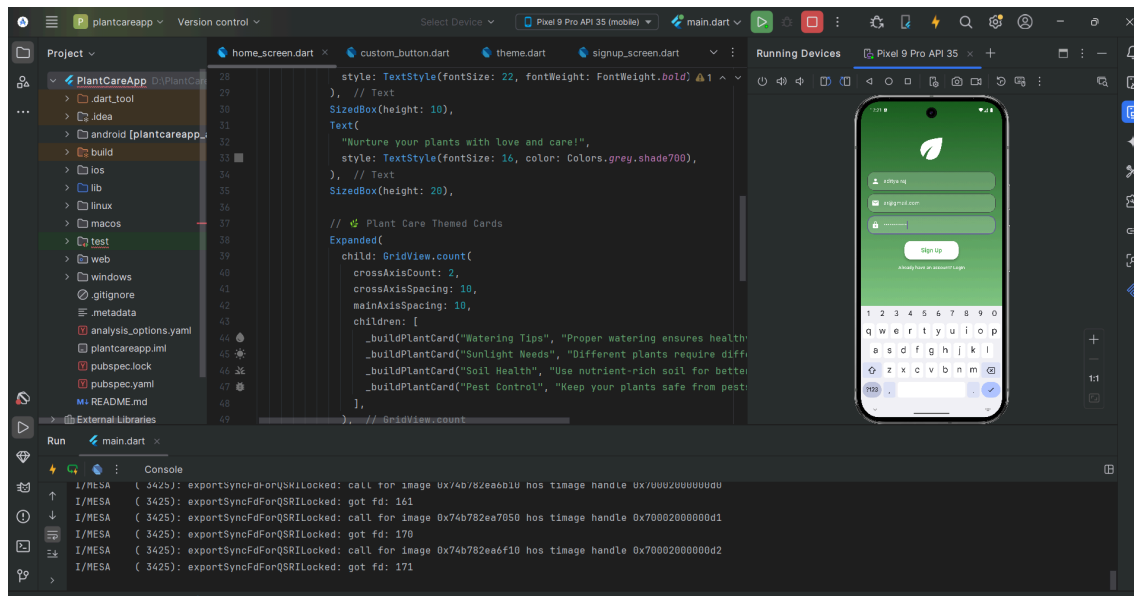
The **login page** features input fields, a submit button, and form validation, providing a seamless user authentication experience.

Login page code integrates **TextFields** for input, an **ElevatedButton** for submission, and form validation, ensuring a smooth user authentication experience.
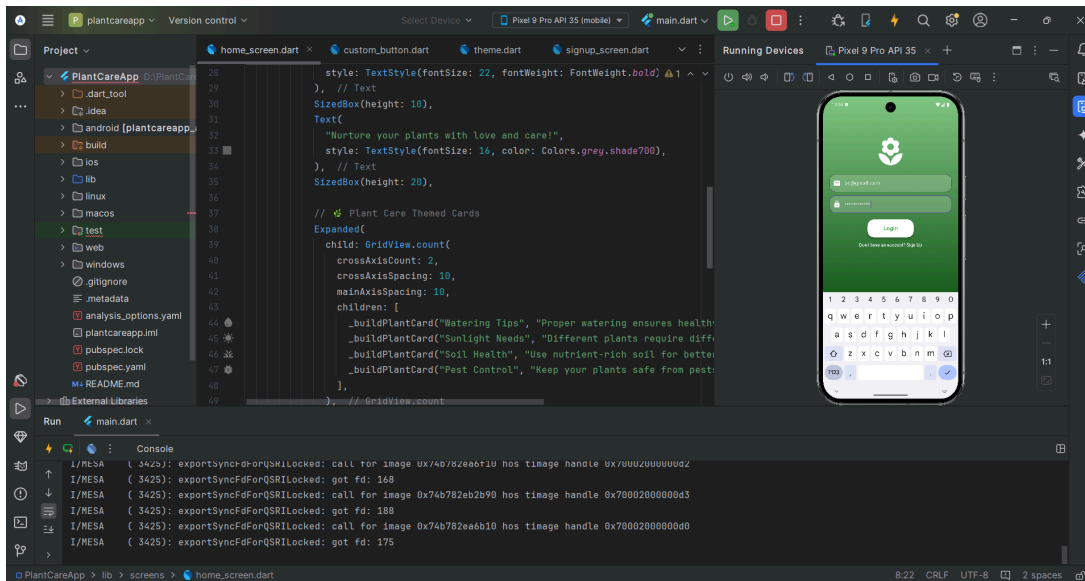
The **home page** code implements a GridView/ListView, Card widgets, and an AppBar with icons, creating an interactive and visually appealing plant care interface.
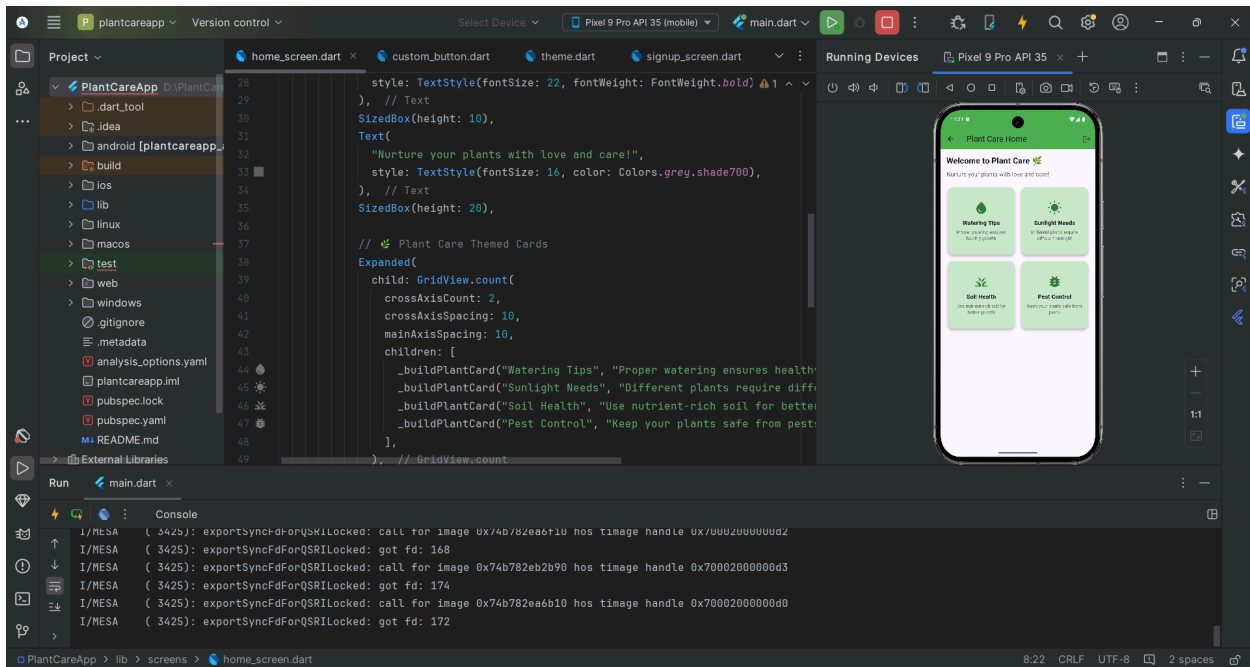
The home page of the Plant Care App features an intuitive layout with plant images, Card widgets for plant details, a search bar, and interactive buttons. It uses **GridView**/ListView for

plant display and a BottomNavigationBar for navigation with icons for a seamless user experience.
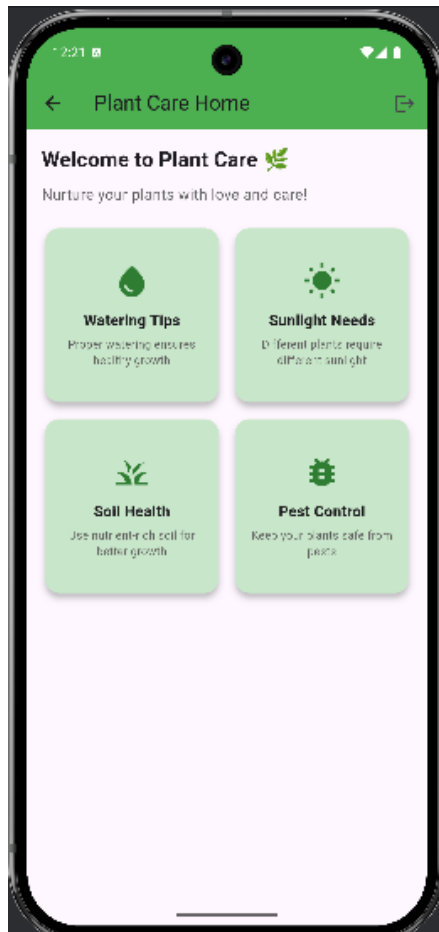
Conclusion : The experiment successfully demonstrated Flutter UI design by implementing common widgets, icons, images, and fonts. It provided hands-on experience in creating interactive and visually appealing mobile interfaces.