**MAD**

**In-Class Activity 12 (Part 1): Flutter Signup Form**

**Due: 7:30 pm Today**

**Class Activity Objective:**  
Create a simple and interactive signup page in Flutter where users can enter their name, email, and password. This activity introduces form handling, input validation, and screen navigation in a fun and beginner-friendly way.

**What You’ll Build:**

A signup screen with:

* A welcome message
* Input fields for **name**, **email**, and **password**
* A **Sign Up** button
* A success message when all inputs are valid

**Step-by-Step Instructions:**

**1. Create a New Flutter Project**

* Open your terminal/command prompt and run:

flutter create signup\_app

* Open the project in your favorite code editor.

**2. Design the Signup Page**

Replace the code in lib/main.dart with the following:

*Dart – Code to use*

*import 'package:flutter/material.dart';*

*void main() {*

*runApp(const MyApp());*

*}*

*class MyApp extends StatelessWidget {*

*const MyApp({super.key});*

*@override*

*Widget build(BuildContext context) {*

*return MaterialApp(*

*title: 'Fun Signup App',*

*theme: ThemeData(primarySwatch: Colors.purple),*

*home: const SignupPage(),*

*);*

*}*

*}*

*class SignupPage extends StatefulWidget {*

*const SignupPage({super.key});*

*@override*

*State<SignupPage> createState() => \_SignupPageState();*

*}*

*class \_SignupPageState extends State<SignupPage> {*

*final \_formKey = GlobalKey<FormState>();*

*final TextEditingController \_nameController = TextEditingController();*

*final TextEditingController \_emailController = TextEditingController();*

*final TextEditingController \_passwordController = TextEditingController();*

*@override*

*Widget build(BuildContext context) {*

*return Scaffold(*

*appBar: AppBar(*

*title: const Text('Join Us Today for the Cash Money!'),*

*backgroundColor: Colors.purple,*

*),*

*body: Padding(*

*padding: const EdgeInsets.all(16.0),*

*child: Form(*

*key: \_formKey,*

*child: Column(*

*children: [*

*// Welcome Message*

*const Text(*

*'Create Your Account',*

*style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold),*

*),*

*const SizedBox(height: 20),*

*// Name Field*

*TextFormField(*

*controller: \_nameController,*

*decoration: const InputDecoration(*

*labelText: 'Full Name',*

*prefixIcon: Icon(Icons.person),*

*border: OutlineInputBorder(),*

*),*

*validator: (value) {*

*if (value == null || value.isEmpty) {*

*return 'Please enter your name';*

*}*

*return null;*

*},*

*),*

*const SizedBox(height: 16),*

*// Email Field*

*TextFormField(*

*controller: \_emailController,*

*decoration: const InputDecoration(*

*labelText: 'Email Address',*

*prefixIcon: Icon(Icons.email),*

*border: OutlineInputBorder(),*

*),*

*validator: (value) {*

*if (value == null || value.isEmpty) {*

*return 'Please enter your email';*

*}*

*if (!value.contains('@')) {*

*return 'Please enter a valid email';*

*}*

*return null;*

*},*

*),*

*const SizedBox(height: 16),*

*// Password Field*

*TextFormField(*

*controller: \_passwordController,*

*obscureText: true,*

*decoration: const InputDecoration(*

*labelText: 'Password',*

*prefixIcon: Icon(Icons.lock),*

*border: OutlineInputBorder(),*

*),*

*validator: (value) {*

*if (value == null || value.isEmpty) {*

*return 'Please enter a password';*

*}*

*if (value.length < 6) {*

*return 'Password must be at least 6 characters';*

*}*

*return null;*

*},*

*),*

*const SizedBox(height: 24),*

*// Sign Up Button*

*ElevatedButton(*

*onPressed: () {*

*if (\_formKey.currentState!.validate()) {*

*ScaffoldMessenger.of(context).showSnackBar(*

*const SnackBar(*

*content: Text('Welcome! Account created successfully.'),*

*backgroundColor: Colors.green,*

*),*

*);*

*}*

*},*

*style: ElevatedButton.styleFrom(*

*backgroundColor: Colors.purple,*

*padding: const EdgeInsets.symmetric(horizontal: 40, vertical: 12),*

*),*

*child: const Text(*

*'Sign Up',*

*style: TextStyle(fontSize: 18),*

*),*

*),*

*],*

*),*

*),*

*),*

*);*

*}*

*}*

**3. Let’s Test Your App – Here are the Checks**

* Save the file and run your app using:

flutter run

* Try submitting the form:
  + Leave fields empty to see error messages
  + Enter an invalid email (without “@”) to see the email error
  + Enter a short password to see the password error
  + Enter valid info and see the success message

**4. Challenge (What to do )**

* Add a **"Confirm Password"** field and validate that it matches the password.
* Change the success message to navigate to a new screen saying: **"Welcome, [Name]!"**
* **Add a fun avatar picker**: Let users select a fun avatar from 3-5 emoji options (😊, 🚀, etc.) that displays on their welcome screen.
* **Add a celebratory animation**: When the signup is successful, make the welcome screen display with a simple fade-in and scale animation or add a confetti effect for 3 seconds before showing the welcome message.

**What You’ll Learn:**

* How to create and style input fields
* How to validate user input
* How to display error messages
* How to show success feedback

**Your submission should include:**

* **app-release.apk file**
* **GitHub repository link**
* **B🚫 Late submissions or missing either requirement (APK or GitHub URL) will not be accepted.**