



<b>Experiment</b>	4
<b>Aim</b>	Develop an app for TPO Office at SPIT
<b>Objective</b>	<ul style="list-style-type: none"><li>● To Create TPO App using UI Component</li><li>● To Develop SideDrawer Navigation</li><li>● To Use 60-30-10 rule</li></ul>
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<b>Date of Submission</b>	11-03-2025

<b>Technology used</b>	Framework- Flutter, Tool used - Android Studio Programming- Dart
<b>Task</b>	Develop an app for TPO with the following requirement (Use side navigation drawer) : <ol style="list-style-type: none"><li>1. Registration Form (Name, E-mail id, Contact, Roll no, HSC (Which College, Year of Passing, total, out of, should calculate percentage), SSC marks (Which College, Year of Passing, total, out of, should calculate percentage), Marks in sem 1-5 (CGPA and Percentage), upload Resume, Any Additional Courses).</li><li>2. User should be able to view the uploaded Resume. (optional)</li><li>3. Company details should be visible to the user. (Name of the company, Location, Range of the salary be given for internship/Placement, Short Profile).</li><li>4. Student should be able to view their own details.</li></ol>
<b>Code with proper label</b>	<b>main.dart :</b>  import 'package:flutter/material.dart'; import 'package:lab4/screens/home_screen.dart'; import 'package:provider/provider.dart'; import 'models/student_data.dart';  void main() { runApp( ChangeNotifierProvider( create: (_) => StudentData(), child: MyApp(), ), ); }  class MyApp extends StatelessWidget { const MyApp({super.key});



```
@override
Widget build(BuildContext context) {
  return MaterialApp(
    title: 'TPO App',
    theme: ThemeData(
      primarySwatch: Colors.orange,
      visualDensity: VisualDensity.adaptivePlatformDensity,
      appBarTheme: AppBarTheme(
        elevation: 0,
        centerTitle: true,
        backgroundColor: Colors.orange.shade800,
        titleTextStyle: TextStyle(
          color: Colors.white,
          fontSize: 24,
          fontWeight: FontWeight.bold,
        ),
      ),
    ),
    darkTheme: ThemeData.dark().copyWith(
      appBarTheme: AppBarTheme(
        elevation: 0,
        centerTitle: true,
        backgroundColor: Colors.deepOrange.shade800,
        titleTextStyle: TextStyle(
          color: Colors.white,
          fontSize: 24,
          fontWeight: FontWeight.bold,
        ),
      ),
    ),
    themeMode: ThemeMode.system,
    home: HomeScreen(),
  );
}
```

**models/student\_data.dart :**

```
import 'package:flutter/foundation.dart';
class StudentData with ChangeNotifier {
  String? name;
  String? email;
  String? contact;
  String? rollNo;
  String? sscCollege;
  String? sscYear;
  double? sscObtainedMarks;
  double? sscTotalMarks;
  double? sscPercentage;
  String? hscCollege;
  String? hscYear;
  double? hscObtainedMarks;
  double? hscTotalMarks;
  double? hscPercentage;
  String? gradCollege;
  String? gradYear;
```



```
Map<String, double> semesters = {};  
double? gradCGPA;  
double? gradPercentage;  
String? additionalCourses;  
String? resumePath;  
String? imagePath;  
  
void updateStudentData({  
    required String name,  
    required String email,  
    required String contact,  
    required String rollNo,  
    required String sscCollege,  
    required String sscYear,  
    required double sscObtainedMarks,  
    required double sscTotalMarks,  
    required double sscPercentage,  
    required String hscCollege,  
    required String hscYear,  
    required double hscObtainedMarks,  
    required double hscTotalMarks,  
    required double hscPercentage,  
    required String gradCollege,  
    required String gradYear,  
    required Map<String, double> semesters,  
    required double gradCGPA,  
    required double gradPercentage,  
    required String additionalCourses,  
    required String resumePath,  
    required String imagePath,  
}) {  
    this.name = name;  
    this.email = email;  
    this.contact = contact;  
    this.rollNo = rollNo;  
    this.sscCollege = sscCollege;  
    this.sscYear = sscYear;  
    this.sscObtainedMarks = sscObtainedMarks;  
    this.sscTotalMarks = sscTotalMarks;  
    this.sscPercentage = sscPercentage;  
    this.hscCollege = hscCollege;  
    this.hscYear = hscYear;  
    this.hscObtainedMarks = hscObtainedMarks;  
    this.hscTotalMarks = hscTotalMarks;  
    this.hscPercentage = hscPercentage;  
    this.gradCollege = gradCollege;  
    this.gradYear = gradYear;  
    this.semesters = semesters;  
    this.gradCGPA = gradCGPA;  
    this.gradPercentage = gradPercentage;  
    this.additionalCourses = additionalCourses;  
    this.resumePath = resumePath;  
    this.imagePath = imagePath;  
    notifyListeners(); // Notify listeners after updating data  
}
```



**screens/home\_screen.dart :**

```
import 'package:flutter/material.dart';
import 'package:lab4/screens/registration_form.dart';
import 'package:lab4/screens/view_resume_screen.dart';
import 'package:company_details_screen.dart';
import 'my_details_screen.dart';

class HomeScreen extends StatelessWidget {
  const HomeScreen({super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('TPO App'),
        backgroundColor: Colors.orange,
      ),
      drawer: Drawer(
        child: Container(
          decoration: BoxDecoration(
            gradient: LinearGradient(
              colors: [Colors.orange.shade300, Colors.orange.shade200],
              begin: Alignment.topLeft,
              end: Alignment.bottomRight,
            ),
          ),
        ),
        child: ListView(
          padding: EdgeInsets.zero,
          children: [
            DrawerHeader(
              decoration: BoxDecoration(
                gradient: LinearGradient(
                  colors: [Colors.orange.shade400, Colors.orange.shade300],
                  begin: Alignment.topLeft,
                  end: Alignment.bottomRight,
                ),
              ),
            ),
            child: Center(
              child: Text(
                'SPIT TPO APP',
                style: TextStyle(
                  color: const Color.fromARGB(255, 4, 1, 85),
                  fontSize: 28,
                  fontWeight: FontWeight.bold,
                ),
              ),
            ),
            _buildDrawerItem(context, 'Registration', Icons.app_registration,
RegistrationForm()),
            _buildDrawerItem(context, 'View Resume', Icons.picture_as_pdf,
ViewResumeScreen()),
            _buildDrawerItem(context, 'Company Details', Icons.business,
CompanyDetailsScreen()),
```



```
        _buildDrawerItem(context, 'My Details', Icons.person,
MyDetailsScreen()),
    ],
  ),
),
),
body: Container(
  decoration: BoxDecoration(
    gradient: LinearGradient(
      colors: [const Color.fromARGB(255, 253, 253, 254), const
Color.fromARGB(255, 237, 236, 239)],
      begin: Alignment.topCenter,
      end: Alignment.bottomCenter,
    ),
  ),
  child: Center(
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        // Make sure to add 'assets/tpo_logo.png' in your pubspec.yaml assets
        Image.asset(
          'assets/images/spit2.png',
          width: 150,
          height: 150,
        ),
        SizedBox(height: 20),
        Text(
          'Welcome to SPIT TPO App',
          style: TextStyle(
            fontSize: 24,
            fontWeight: FontWeight.bold,
            color: Colors.orange.shade900,
          ),
        ),
        SizedBox(height: 10),
        Text(
          'Empowering Your Future',
          style: TextStyle(
            fontSize: 18,
            color: Colors.orange.shade700,
          ),
        ),
      ],
    ),
  ),
);
}
```

```
Widget _buildDrawerItem(BuildContext context, String title, IconData icon,
Widget destination) {
  return ListTile(
    leading: Icon(icon, color: const Color.fromARGB(255, 12, 4, 238)),
    title: Text(
      title,
      style: TextStyle(
```



```
color: const Color.fromARGB(255, 20, 2, 92),
fontSize: 18,
),
),
onTap: () {
  Navigator.pop(context);
  Navigator.push(
    context,
    MaterialPageRoute(builder: (context) => destination),
  );
},
);
}
```

**registration\_form.dart :**

```
import 'package:flutter/material.dart';
import 'package:file_picker/file_picker.dart';
import 'package:provider/provider.dart';
import 'package:lab4/models/student_data.dart';
import 'package:lab4/screens/my_details_screen.dart';

class RegistrationForm extends StatefulWidget {
  const RegistrationForm({super.key});

  @override
  _RegistrationFormState createState() => _RegistrationFormState();
}

class _RegistrationFormState extends State<RegistrationForm> {
  final _formKey = GlobalKey<FormState>();
  String? _resumePath;
  String? _imagePath;

  // Controllers for form fields
  final TextEditingController _nameController = TextEditingController();
  final TextEditingController _emailController = TextEditingController();
  final TextEditingController _contactController = TextEditingController();
  final TextEditingController _rollNoController = TextEditingController();
  final TextEditingController _sscCollegeController = TextEditingController();
  final TextEditingController _sscYearController = TextEditingController();
  final TextEditingController _sscObtainedMarksController =
    TextEditingController();
  final TextEditingController _sscTotalMarksController =
    TextEditingController();
  double sscPercentage = 0.00;
  double hscPercentage = 0.00;
  final TextEditingController _hscCollegeController = TextEditingController();
  final TextEditingController _hscYearController = TextEditingController();
  final TextEditingController _hscObtainedMarksController =
    TextEditingController();
  final TextEditingController _hscTotalMarksController =
    TextEditingController();
  final TextEditingController _gradCollegeController = TextEditingController();
  final TextEditingController _gradYearController = TextEditingController();
```



```
final TextEditingController _sem1Controller = TextEditingController();
final TextEditingController _sem2Controller = TextEditingController();
final TextEditingController _sem3Controller = TextEditingController();
final TextEditingController _sem4Controller = TextEditingController();
final TextEditingController _sem5Controller = TextEditingController();
final TextEditingController _additionalCoursesController =
TextEditingController();

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text('Registration Form'),
      backgroundColor: Colors.orange,
    ),
    body: SingleChildScrollView(
      padding: EdgeInsets.all(16),
      child: Form(
        key: _formKey,
        child: Column(
          children: [
            // Personal Details Section
            _buildSectionCard(
              'Personal Details',
              Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  _buildRow('Name', 'Enter your name', _nameController),
                  _buildRow('Email', 'Enter your email', _emailController),
                  _buildRow('Contact', 'Enter your contact number',
                    _contactController),
                  _buildRow('Roll No', 'Enter your roll number', _rollNoController),
                ],
              ),
            ),
            // SSC Details Section
            _buildSectionCard(
              'SSC Details',
              Column(
                crossAxisAlignment: CrossAxisAlignment.start,
                children: [
                  _buildRow('SSC College', 'Enter SSC college name',
                    _sscCollegeController),
                  _buildRow('SSC Year', 'Enter SSC year of passing',
                    _sscYearController),
                  _buildRow('SSC Obtained Marks', 'Enter SSC obtained marks',
                    _sscObtainedMarksController),
                  _buildRow('SSC Total Marks', 'Enter SSC total marks',
                    _sscTotalMarksController),
                  SizedBox(height: 10),
                  _buildPercentageBox('SSC Percentage', sscPercentage),
                ],
              ),
            ),
          ],
        ),
      ),
    ),
  );
}
```

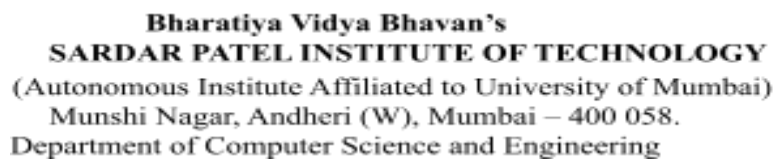


```
// HSC Details Section
_buildSectionCard(
'HSC Details',
Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
_buildRow('HSC College', 'Enter HSC college name',
_hscCollegeController),
_buildRow('HSC Year', 'Enter HSC year of passing',
_hscYearController),
_buildRow('HSC Obtained Marks', 'Enter HSC obtained marks',
_hscObtainedMarksController),
_buildRow('HSC Total Marks', 'Enter HSC total marks',
_hscTotalMarksController),
 SizedBox(height: 10),
_buildPercentageBox('HSC Percentage', hscPercentage),
 ],
),
),

// Graduation Details Section
_buildSectionCard(
'Graduation Details',
Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
_buildRow('Graduation College', 'Enter Graduation college name',
_gradCollegeController),
_buildRow('Graduation Year', 'Enter Graduation year of passing',
_gradYearController),
_buildRow('Semester 1 CGPA', 'Enter Semester 1 CGPA',
_sem1Controller),
_buildRow('Semester 2 CGPA', 'Enter Semester 2 CGPA',
_sem2Controller),
_buildRow('Semester 3 CGPA', 'Enter Semester 3 CGPA',
_sem3Controller),
_buildRow('Semester 4 CGPA', 'Enter Semester 4 CGPA',
_sem4Controller),
_buildRow('Semester 5 CGPA', 'Enter Semester 5 CGPA',
_sem5Controller),
 SizedBox(height: 10),
_buildPercentageBox('Overall CGPA', _calculateOverallCGPA()),
 SizedBox(height: 10),
_buildPercentageBox('Overall Percentage',
_calculateOverallPercentage()),
 ],
),
),

// Additional Courses Section
_buildSectionCard(
'Additional Courses',
Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
_buildRow('Courses', 'Enter additional courses',
```





```
_additionalCoursesController),
    ],
  ),
),

// Documents Section
_buildSectionCard(
'Documents',
Column(
crossAxisAlignment: CrossAxisAlignment.start,
children: [
// Upload Photo Button with fixed width
Center(
child: SizedBox(
width: 200,
height: 35,
child: ElevatedButton(
style: ElevatedButton.styleFrom(
backgroundColor: Colors.orange,
),
onPressed: () async {
FilePickerResult? result = await FilePicker.platform.pickFiles(
type: FileType.image,
);
if (result != null) {
setState(() {
_imagePath = result.files.single.path;
});
}
},
child: Text('Upload Photo'),
),
),
),
if (_imagePath != null)
Padding(
padding: EdgeInsets.only(top: 5),
child: Text('Photo Path: $_imagePath'),
),
SizedBox(height: 10),
// Upload Resume Button with fixed width
Center(
child: SizedBox(
width: 200,
height: 35,
child: ElevatedButton(
style: ElevatedButton.styleFrom(
backgroundColor: Colors.orange,
),
onPressed: () async {
FilePickerResult? result = await FilePicker.platform.pickFiles();
if (result != null) {
setState(() {
_resumePath = result.files.single.path;
});
}
}
```



```
    },
    child: Text('Upload Resume'),
  ),
),
),
if (_resumePath != null)
  Padding(
    padding: EdgeInsets.only(top: 5),
    child: Text('Resume Path: $_resumePath'),
  ),
],
),
),
),

SizedBox(height: 20),

// Submit Button
ElevatedButton(
  style: ElevatedButton.styleFrom(
    backgroundColor: Colors.orange,
  ),
  onPressed: () {
    if (_formKey.currentState!.validate()) {
      double gradCGPA = _calculateOverallCGPA();
      double gradPercentage = _calculateOverallPercentage();

      Provider.of<StudentData>(context, listen: false).updateStudentData(
        name: _nameController.text,
        email: _emailController.text,
        contact: _contactController.text,
        rollNo: _rollNoController.text,
        sscCollege: _sscCollegeController.text,
        sscYear: _sscYearController.text,
        sscObtainedMarks:
double.parse(_sscObtainedMarksController.text),
        sscTotalMarks: double.parse(_sscTotalMarksController.text),
        sscPercentage: sscPercentage,
        hscCollege: _hscCollegeController.text,
        hscYear: _hscYearController.text,
        hscObtainedMarks:
double.parse(_hscObtainedMarksController.text),
        hscTotalMarks: double.parse(_hscTotalMarksController.text),
        hscPercentage: hscPercentage,
        gradCollege: _gradCollegeController.text,
        gradYear: _gradYearController.text,
        semesters: {
          'Sem 1': double.parse(_sem1Controller.text),
          'Sem 2': double.parse(_sem2Controller.text),
          'Sem 3': double.parse(_sem3Controller.text),
          'Sem 4': double.parse(_sem4Controller.text),
          'Sem 5': double.parse(_sem5Controller.text),
        },
        gradCGPA: gradCGPA,
        gradPercentage: gradPercentage,
        additionalCourses: _additionalCoursesController.text,
        resumePath: resumePath ?? "",
      );
    }
  },
);
```



```
        imagePath: _imagePath ?? "",
      );

      ScaffoldMessenger.of(context).showSnackBar(
        SnackBar(content: Text('Registration Successful')),
      );

      Navigator.push(
        context,
        MaterialPageRoute(builder: (context) => MyDetailsScreen()),
      );
    }
  },
  child: Text('Submit'),
),
],
),
),
),
);
}
Widget _buildSectionCard(String title, Widget content) {
  return Card(
    elevation: 4,
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(10),
    ),
    child: Padding(
      padding: EdgeInsets.all(16),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Text(
            title,
            style: TextStyle(
              fontSize: 18,
              fontWeight: FontWeight.bold,
              color: Colors.orange,
            ),
          ),
          SizedBox(height: 10),
          content,
        ],
      ),
    ),
  );
}
Widget _buildPercentageBox(String label, double value) {
  return Container(
    padding: EdgeInsets.all(12),
    decoration: BoxDecoration(
      color: Colors.orange.shade50,
      borderRadius: BorderRadius.circular(8),
      border: Border.all(color: Colors.orange.shade200),
    ),
    child: Row(
```



```
children: [
  Text(
    '$label: ',
    style: TextStyle(fontSize: 16, fontWeight: FontWeight.bold),
  ),
  Text(
    '${value.toStringAsFixed(2)}${label.contains("Percentage") ? "%" : ""}',
    style: TextStyle(fontSize: 16, color: Colors.orange.shade800),
  ),
],
),
);
}
_calculatePercentageSSC(String obtained, String total) {
  if (obtained.isEmpty || total.isEmpty) return 0.0;
  double obtainedMarks = double.parse(obtained);
  double totalMarks = double.parse(total);
  sscPercentage = (obtainedMarks / totalMarks) * 100;
}
_calculatePercentageHSC(String obtained, String total) {
  if (obtained.isEmpty || total.isEmpty) return 0.0;
  double obtainedMarks = double.parse(obtained);
  double totalMarks = double.parse(total);
  hscPercentage = (obtainedMarks / totalMarks) * 100;
}
double _calculateOverallCGPA() {
  double sem1 = double.tryParse(_sem1Controller.text) ?? 0.0;
  double sem2 = double.tryParse(_sem2Controller.text) ?? 0.0;
  double sem3 = double.tryParse(_sem3Controller.text) ?? 0.0;
  double sem4 = double.tryParse(_sem4Controller.text) ?? 0.0;
  double sem5 = double.tryParse(_sem5Controller.text) ?? 0.0;
  return (sem1 + sem2 + sem3 + sem4 + sem5) / 5;
}
double _calculateOverallPercentage() {
  return _calculateOverallCGPA() * 9.5;
}
Widget _buildRow(String label, String placeholder, TextEditingController
controller) {
  return Padding(
    padding: EdgeInsets.symmetric(vertical: 8),
    child: Row(
      children: [
        Expanded(
          flex: 2,
          child: Text(
            label,
            style: TextStyle(fontSize: 16),
          ),
        ),
        SizedBox(width: 10),
        Expanded(
          flex: 3,
          child: TextFormField(
            controller: controller,
            decoration: InputDecoration(
              hintText: placeholder,
```



```
border: OutlineInputBorder(  
  borderSide: BorderSide(color: Colors.orange),  
),  
focusedBorder: OutlineInputBorder(  
  borderSide: BorderSide(color: Colors.orange, width: 2),  
),  
),  
validator: (value) {  
  if (value!.isEmpty) {  
    return 'Please enter $label';  
  }  
  return null;  
},  
onChanged: (value) {  
  // For SSC and HSC total marks, calculate their percentages  
  if (label == 'SSC Total Marks') {  
    setState() {  
      _calculatePercentageSSC(_sscObtainedMarksController.text,  
_sscTotalMarksController.text);  
    });  
  } else if (label == 'HSC Total Marks') {  
    setState() {  
      _calculatePercentageHSC(_hscObtainedMarksController.text,  
_hscTotalMarksController.text);  
    });  
  }  
  // For semester CGPA fields, update overall CGPA and percentage  
  else if (label.contains("Semester")) {  
    setState() {}; // Trigger rebuild to recalc overall values  
  }  
},  
),  
),  
],  
),  
);  
}  
}
```

**view\_resume\_screen :**

```
import 'dart:io';  
import 'package:flutter/material.dart';  
import 'package:provider/provider.dart';  
import 'package:lab4/models/student_data.dart';  
import 'package:syncfusion_flutter_pdfviewer/pdfviewer.dart';
```

```
class ViewResumeScreen extends StatelessWidget {  
  const ViewResumeScreen({super.key});
```

```
  @override
```

```
  Widget build(BuildContext context) {  
    final studentData = Provider.of<StudentData>(context);  
    return Scaffold(  
      appBar: AppBar(  
        title: Text('View Resume'),
```



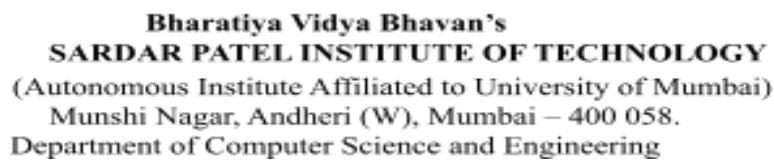
```
        backgroundColor: Colors.orange,
      ),
      body: studentData.resumePath != null
        ? SfPdfViewer.file(File(studentData.resumePath!))
        : Center(
            child: Column(
              mainAxisAlignment: MainAxisAlignment.center,
              children: [
                Icon(Icons.insert_drive_file, size: 64, color: Colors.orange),
                SizedBox(height: 16),
                Text(
                  'No resume uploaded',
                  style: TextStyle(fontSize: 18, color: Colors.orange),
                ),
              ],
            ),
          ),
    );
  }
}
```

**my\_details\_screen.dart :**

```
import 'dart:io';
import 'package:flutter/material.dart';
import 'package:provider/provider.dart';
import 'package:lab4/models/student_data.dart';

class MyDetailsScreen extends StatelessWidget {
  const MyDetailsScreen({super.key});

  @override
  Widget build(BuildContext context) {
    final studentData = Provider.of<StudentData>(context);
    return Scaffold(
      appBar: AppBar(
        title: Text('My Details', style: TextStyle(fontWeight: FontWeight.w600)),
        backgroundColor: Colors.orange,
      ),
      body: Container(
        decoration: BoxDecoration(
          gradient: LinearGradient(
            colors: [Colors.white, Colors.orange.shade50],
            begin: Alignment.topCenter,
            end: Alignment.bottomCenter,
          ),
        ),
        child: Padding(
          padding: EdgeInsets.all(16),
          child: SingleChildScrollView(
            child: Column(
              crossAxisAlignment: CrossAxisAlignment.start,
              children: [
                if (studentData.imagePath != null &&
studentData.imagePath!.isNotEmpty)
                  Center(
```



```

        child: Hero(
          tag: 'profile-image',
          child: ClipRRect(
            borderRadius: BorderRadius.circular(75),
            child: Image.file(
              File(studentData.imagePath!),
              width: MediaQuery.of(context).size.width * 0.4,
              height: MediaQuery.of(context).size.width * 0.4,
              fit: BoxFit.cover,
            ),
          ),
        ),
      ),
    ),
    SizedBox(height: 20),
    _buildDetailItem('Name', studentData.name),
    _buildDetailItem('Email', studentData.email),
    _buildDetailItem('Contact', studentData.contact),
    _buildDetailItem('Roll No', studentData.rollNo),
    SizedBox(height: 20),
    _buildSectionTitle('SSC Details'),
    _buildDetailItem('SSC College', studentData.sscCollege),
    _buildDetailItem('SSC Year', studentData.sscYear),
    _buildDetailItem('SSC Percentage', '${studentData.sscPercentage}%'),
    SizedBox(height: 20),
    _buildSectionTitle('HSC Details'),
    _buildDetailItem('HSC College', studentData.hscCollege),
    _buildDetailItem('HSC Year', studentData.hscYear),
    _buildDetailItem('HSC Percentage', '${studentData.hscPercentage}%'),
    SizedBox(height: 20),
    _buildSectionTitle('Graduation Details'),
    _buildDetailItem('Graduation College', studentData.gradCollege),
    _buildDetailItem('Graduation Year', studentData.gradYear),
    _buildDetailItem('Graduation Percentage',
    '${studentData.gradPercentage}%'),
    SizedBox(height: 20),
    _buildSectionTitle('Semester Marks'),
    _buildDetailItem('Semester 1', '${studentData.semesters['Sem 1']}'),
    _buildDetailItem('Semester 2', '${studentData.semesters['Sem 2']}'),
    _buildDetailItem('Semester 3', '${studentData.semesters['Sem 3']}'),
    _buildDetailItem('Semester 4', '${studentData.semesters['Sem 4']}'),
    _buildDetailItem('Semester 5', '${studentData.semesters['Sem 5']}'),
    SizedBox(height: 20),
    _buildDetailItem('Additional Courses', studentData.additionalCourses),
  ],
),
),
),
),
);
}

Widget _buildSectionTitle(String title) {
  return Padding(
    padding: const EdgeInsets.symmetric(vertical: 8.0),
    child: Text(
      title,

```



```
style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold, color:
Colors.orangeAccent),
),
);
}
```

```
Widget _buildDetailItem(String label, String? value) {
  return Padding(
    padding: const EdgeInsets.symmetric(vertical: 4.0),
    child: Row(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        Text('$label: ', style: TextStyle(fontWeight: FontWeight.w600)),
        Expanded(child: Text(value ?? '-', style: TextStyle(fontSize: 16))),
      ],
    ),
  );
}
```

**company\_details.dart :**

```
import 'package:flutter/material.dart';
class CompanyDetailsScreen extends StatelessWidget {
  const CompanyDetailsScreen({super.key});
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Company Details'),
        backgroundColor: Colors.orange,
      ),
      body: ListView(
        children: [
          _buildCompanyCard(
            'Google',
            'California, USA',
            '\₹8,00,000 - \₹12,00,000 per year',
            'Tec0h company specializing in search engines, AI, and software.',
            Icons.search,
          ),
          _buildCompanyCard(
            'PhonePe',
            'Washington, USA',
            '\₹7,50,000 - \₹11,50,000 per year',
            'Software giant known for Windows, Azure, and enterprise solutions.',
            Icons.phone_android,
          ),
          _buildCompanyCard(
            'Nomura',
            'Mumbai, Maharashtra',
            '\₹8,50,000 - \₹13,00,000 per year',
            'E-commerce and cloud computing leader.',
            Icons.cloud,
          ),
          _buildCompanyCard(
            'J.P. Morgan',
```





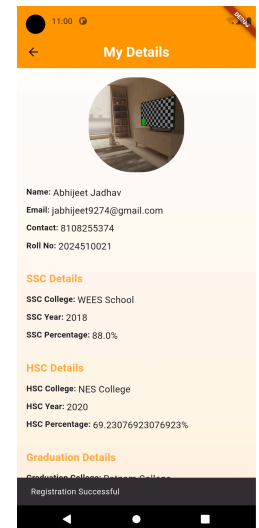
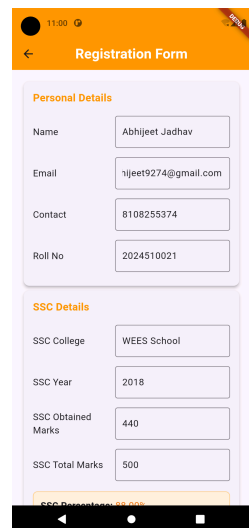
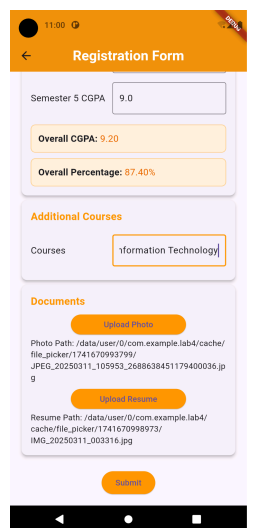
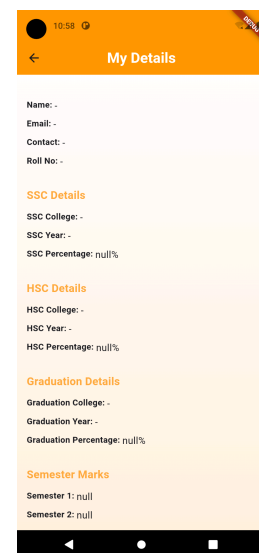
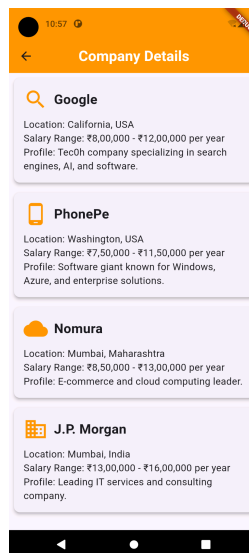
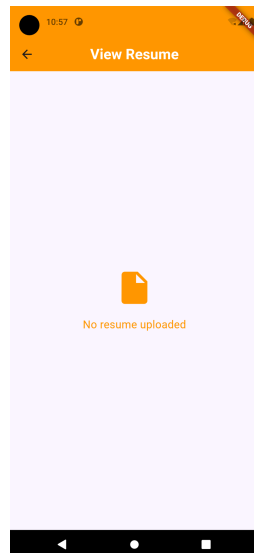
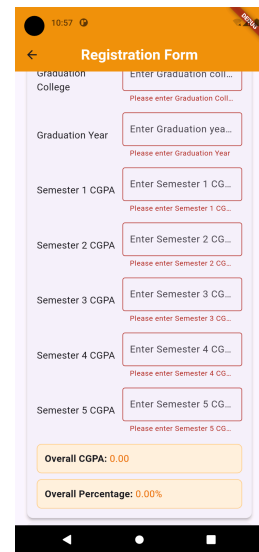
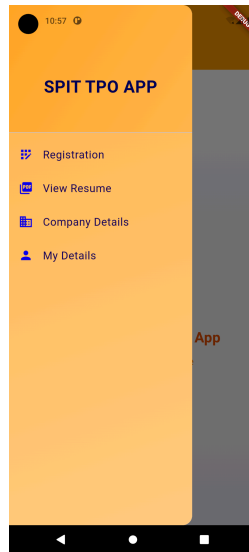
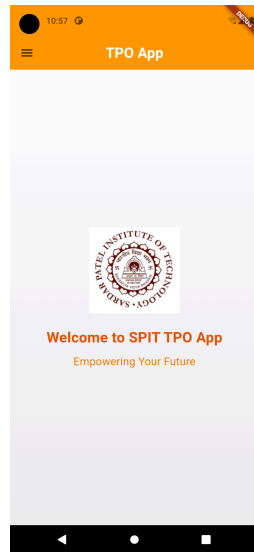
```
'Mumbai, India',
'₹13,00,000 - ₹16,00,000 per year',
'Leading IT services and consulting company.',
Icons.business,
),
],
),
);
}

Widget _buildCompanyCard(String name, String location, String salary, String
profile, IconData icon) {
  return Card(
    elevation: 4,
    margin: EdgeInsets.all(8),
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(10),
    ),
    child: Padding(
      padding: EdgeInsets.all(16),
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Row(
            children: [
              Icon(icon, size: 40, color: Colors.orange),
              SizedBox(width: 10),
              Text(
                name,
                style: TextStyle(fontSize: 22, fontWeight: FontWeight.bold),
              ),
            ],
          ),
          SizedBox(height: 10),
          Text('Location: $location', style: TextStyle(fontSize: 16)),
          Text('Salary Range: $salary', style: TextStyle(fontSize: 16)),
          Text('Profile: $profile', style: TextStyle(fontSize: 16)),
        ],
      ),
    ),
  );
}
```



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Department of Computer Science and Engineering

## Screenshots





<b>Question and Answers</b>	<p>Answer the following Questions:</p> <p>1. How to create SideDrawer Navigation?</p> <p>Ans : SideDrawer Navigation can be created using a drawer component that slides in from the side when a button (like a hamburger menu) is clicked. Libraries like Material-UI or Tailwind with Headless UI make this easy by providing built-in drawer components.</p> <p>2. How did you use 60-30-10 rule in your application?</p> <p>Ans : 60-30-10 Rule is a color scheme principle used for a balanced UI. In my application, 60% is the primary color (background or main sections), 30% is the secondary color (buttons or sidebars), and 10% is the accent color (highlights or call-to-action buttons), ensuring a visually appealing design.</p> <p>3. Which new elements did you use for creating UI components?</p> <p>Ans : New UI Elements used include cards for grouped information, modals for pop-ups, tabs for content organization, tooltips for additional details, and progress bars for tracking progress. These elements enhance usability and improve the user experience.</p>
<b>Conclusion</b>	<p>This project is a Training and Placement Office (TPO) application aimed at assisting students in organizing their registration, resume, and academic information in a single location. The app enables students to enter their details, upload resumes, and access company information. Additionally, I acquired new skills such as implementing side navigation via a Drawer, managing form inputs and validations, and handling file uploads using <code>file_picker</code> and <code>open_file</code>.</p>