



Bharatiya Vidya Bhavan's
SARDAR PATEL INSTITUTE OF TECHNOLOGY
(Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

Experiment	4
Aim	Develop an app for TPO Office at SPIT
Objective	<ul style="list-style-type: none">• To Create TPO App using UI Component• To Develop SideDrawer Navigation• To Use 60-30-10 rule
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Class	FYMCA
Batch	C
Date of Submission	27/02/2025

Technology used	Flutter
Task	<p>Develop an app for TPO with the following requirement (Use side navigation drawer) :</p> <ol style="list-style-type: none">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).2. User should be able to view the uploaded Resume. (optional)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).4. Student should be able to view their own details.
Code with proper label	<p>main.dart</p> <pre>import 'package:flutter/material.dart'; import 'screens/home_screen.dart'; import 'screens/registration_screen.dart'; import 'screens/company_screen.dart'; import 'screens/profile_screen.dart'; import 'screens/resume_screen.dart'; import 'utils/app_theme.dart'; void main() { runApp(const MyApp()); }</pre>



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

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'TPO App',
      theme: AppTheme.lightTheme,
      darkTheme: AppTheme.darkTheme,
      themeMode: ThemeMode.system,
      debugShowCheckedModeBanner: false,
      home: const HomeScreen(),
      routes: {
        '/home': (context) => const HomeScreen(),
        '/registration': (context) => const
RegistrationScreen(),
        '/companies': (context) => const CompanyScreen(),
        '/profile': (context) => const ProfileScreen(),
        '/resume': (context) => const ResumeScreen(),
      },
    );
  }
}
```

app_drawer.dart (/widgets/app_drawer.dart)

```
import 'package:flutter/material.dart';
import '../services/student_service.dart';

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

  @override
  Widget build(BuildContext context) {
    return Drawer(
      child: FutureBuilder<bool>(
        future: StudentService.isRegistered(),
        builder: (context, snapshot) {
          final isRegistered = snapshot.data ?? false;

          return ListView(
            padding: EdgeInsets.zero,
            children: [
```



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```
DrawerHeader(  
  decoration: BoxDecoration(  
    color:  
Theme.of(context).colorScheme.primary,  
  ),  
  child: Column(  
    crossAxisAlignment:  
CrossAxisAlignment.start,  
    children: [  
      const CircleAvatar(  
        radius: 30,  
        backgroundColor: Colors.white,  
        child: Icon(  
          Icons.school,  
          size: 30,  
          color: Colors.blue,  
        ),  
      ),  
      const SizedBox(height: 10),  
      Text(  
        'TPO Portal',  
        style:  
Theme.of(context).textTheme.titleLarge?.copyWith(  
          color: Colors.white,  
          fontWeight: FontWeight.bold,  
        ),  
      ),  
      Text(  
        isRegistered ? 'Welcome back!' :  
'Get started',  
        style:  
Theme.of(context).textTheme.bodyMedium?.copyWith(  
          color: Colors.white70,  
        ),  
      ),  
    ],  
  ),  
)  
ListTile(  
  leading: const Icon(Icons.home),  
  title: const Text('Home'),  
  onTap: () {
```



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```
Navigator.pushReplacementNamed(context,
'/home');

    },
    ),
    ListTile(
      leading: const
Icon(Icons.app_registration),
      title: const Text('Registration'),
      onTap: () {
        Navigator.pushReplacementNamed(context,
'/registration');
      },
    ),
    ListTile(
      leading: const Icon(Icons.business),
      title: const Text('Companies'),
      onTap: () {
        Navigator.pushReplacementNamed(context,
'/companies');
      },
    ),
    if (isRegistered) ...[
      ListTile(
        leading: const Icon(Icons.person),
        title: const Text('My Profile'),
        onTap: () {
          Navigator.pushReplacementNamed(context, '/profile');
        },
      ),
      ListTile(
        leading: const Icon(Icons.description),
        title: const Text('My Resume'),
        onTap: () {
          Navigator.pushReplacementNamed(context, '/resume');
        },
      ),
    ],
  ),
);
},
```



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```
),  
);  
}  
}
```

home_screen.dart (/pages/home_screen.dart)

```
import 'package:flutter/material.dart';  
import '../widgets/app_drawer.dart';  
import '../services/student_service.dart';  
  
class HomeScreen extends StatelessWidget {  
  const HomeScreen({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        title: const Text('TPO Portal'),  
      ),  
      drawer: const AppDrawer(),  
      body: FutureBuilder<bool>(  
        future: StudentService.isRegistered(),  
        builder: (context, snapshot) {  
          final isRegistered = snapshot.data ?? false;  
  
          return SingleChildScrollView(  
            child: Padding(  
              padding: const EdgeInsets.all(16.0),  
              child: Column(  
                crossAxisAlignment:  
CrossAxisAlignment.start,  
                children: [  
                  Card(  
                    child: Padding(  
                      padding: const  
EdgeInsets.all(16.0),  
                    child: Column(  
                      crossAxisAlignment:  
CrossAxisAlignment.start,  
                      children: [  
                        Text(  
                          'Welcome to Training &
```



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```
Placement Office',
                                style:
Theme.of(context).textTheme.headlineSmall,
                                ),
                                const SizedBox(height: 8),
                                Text(
                                    'Your gateway to career
opportunities',
                                style:
Theme.of(context).textTheme.bodyLarge,
                                ),
                                const SizedBox(height: 16),
                                if (!isRegistered)
                                    ElevatedButton(
                                        onPressed: () {
Navigator.pushNamed(context, '/registration');
                                        },
                                        child: const Text('Register
Now'),
                                    ),
                                if (isRegistered)
                                    ElevatedButton(
                                        onPressed: () {
Navigator.pushNamed(context, '/profile');
                                        },
                                        child: const Text('View
Profile'),
                                    ),
                                ],
                            ),
                        ),
                    ),
                    const SizedBox(height: 24),
                    Text(
                        'Upcoming Events',
                        style:
Theme.of(context).textTheme.titleLarge,
                    ),
                    const SizedBox(height: 16),
                    _buildEventCard(
```



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```
context,
    'Campus Recruitment Drive',
    'May 15, 2023',
    'Major tech companies will be
visiting for recruitment.',
    Icons.event,
),
const SizedBox(height: 12),
_buildEventCard(
    context,
    'Resume Building Workshop',
    'May 10, 2023',
    'Learn how to create an impressive
resume.',
    Icons.description,
),
const SizedBox(height: 12),
_buildEventCard(
    context,
    'Mock Interview Session',
    'May 12, 2023',
    'Practice your interview skills with
industry experts.',
    Icons.people,
),
const SizedBox(height: 24)
],
),
),
);
},
),
);
}

Widget _buildEventCard(
    BuildContext context,
    String title,
    String date,
    String description,
    IconData icon,
) {
```



```
return Card(  
  child: ListTile(  
    leading: Icon(icon, color:  
Theme.of(context).colorScheme.primary),  
    title: Text(title),  
    subtitle: Column(  
      crossAxisAlignment: CrossAxisAlignment.start,  
      children: [  
        Text(date),  
        Text(description),  
      ],  
    ),  
    isThreeLine: true,  
  ),  
);  
}
```

registration_screen.dart (/pages/registration_screen.dart)

```
import 'package:flutter/material.dart';  
import 'package:file_picker/file_picker.dart';  
import '../models/student.dart';  
import '../services/student_service.dart';  
import '../widgets/app_drawer.dart';  
  
class RegistrationScreen extends StatefulWidget {  
  const RegistrationScreen({super.key});  
  
  @override  
  State<RegistrationScreen> createState() =>  
  _RegistrationScreenState();  
}  
  
class _RegistrationScreenState extends  
State<RegistrationScreen> {  
  final _formKey = GlobalKey<FormState>();  
  final _pageController = PageController();  
  int _currentPage = 0;  
  String? _resumePath;  
  final List<String> _additionalCourses = [];  
  final TextEditingController _courseController =  
TextEditingController();
```




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```
// Personal details
final TextEditingController _nameController =
TextEditingController();
final TextEditingController _emailController =
TextEditingController();
final TextEditingController _contactController =
TextEditingController();
final TextEditingController _rollNumberController =
TextEditingController();

// HSC details
final TextEditingController _hscCollegeController =
TextEditingController();
final TextEditingController _hscYearController =
TextEditingController();
final TextEditingController _hscTotalMarksController =
TextEditingController();
final TextEditingController _hscOutOfMarksController =
TextEditingController();

// SSC details
final TextEditingController _sscCollegeController =
TextEditingController();
final TextEditingController _sscYearController =
TextEditingController();
final TextEditingController _sscTotalMarksController =
TextEditingController();
final TextEditingController _sscOutOfMarksController =
TextEditingController();

// Semester details
final List<TextEditingController> _cgpaControllers =
List.generate(
    5,
    (_) => TextEditingController(),
);
final List<TextEditingController>
_percentageControllers = List.generate(
    5,
    (_) => TextEditingController(),
);
```



```
@override
void dispose() {
  _pageController.dispose();
  _nameController.dispose();
  _emailController.dispose();
  _contactController.dispose();
  _rollNumberController.dispose();
  _hscCollegeController.dispose();
  _hscYearController.dispose();
  _hscTotalMarksController.dispose();
  _hscOutOfMarksController.dispose();
  _sscCollegeController.dispose();
  _sscYearController.dispose();
  _sscTotalMarksController.dispose();
  _sscOutOfMarksController.dispose();
  for (var controller in _cgpaControllers) {
    controller.dispose();
  }
  for (var controller in _percentageControllers) {
    controller.dispose();
  }
  _courseController.dispose();
  super.dispose();
}

Future<void> _pickResume() async {
  FilePickerResult? result = await
FilePicker.platform.pickFiles(
    type: FileType.custom,
    allowedExtensions: ['pdf'],
  );

  if (result != null) {
    setState(() {
      _resumePath = result.files.single.path;
    });
  }
}

void _addCourse() {
  if (_courseController.text.isNotEmpty) {
```



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```
        setState(() {
            _additionalCourses.add(_courseController.text);
            _courseController.clear();
        });
    }
}

void _removeCourse(int index) {
    setState(() {
        _additionalCourses.removeAt(index);
    });
}

Future<void> _submitForm() async {
    if (_formKey.currentState!.validate()) {
        // Create student object
        final student = Student(
            name: _nameController.text,
            email: _emailController.text,
            contact: _contactController.text,
            rollNumber: _rollNumberController.text,
            hsc: EducationDetails(
                collegeName: _hscCollegeController.text,
                yearOfPassing: _hscYearController.text,
                totalMarks:
double.parse(_hscTotalMarksController.text),
                outOfMarks:
double.parse(_hscOutOfMarksController.text),
            ),
            ssc: EducationDetails(
                collegeName: _sscCollegeController.text,
                yearOfPassing: _sscYearController.text,
                totalMarks:
double.parse(_sscTotalMarksController.text),
                outOfMarks:
double.parse(_sscOutOfMarksController.text),
            ),
            semesters: List.generate(
                5,
                (i) => SemesterDetails(
                    cgpa: double.parse(_cgpaControllers[i].text),
                    percentage:
```



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```
double.parse(_percentageControllers[i].text),
    ),
  ),
  resumePath: _resumePath,
  additionalCourses: List.from(_additionalCourses),
);

// Save student data
await StudentService.saveStudent(student);

// Show success message
if (mounted) {
  ScaffoldMessenger.of(context).showSnackBar(
    const SnackBar(
      content: Text('Registration successful!'),
      backgroundColor: Colors.green,
    ),
  );
  Navigator.pushReplacementNamed(context,
    '/profile');
}
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: const Text('Registration'),
    ),
    drawer: const AppDrawer(),
    body: Form(
      key: _formKey,
      child: Column(
        children: [
          // Progress indicator
          LinearProgressIndicator(
            value: (_currentPage + 1) / 5,
            backgroundColor: Colors.grey[300],
            valueColor: AlwaysStoppedAnimation<Color>(
              Theme.of(context).colorScheme.primary,
            ),
          ),
        ],
      ),
    ),
  );
}
```



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```
),  
    // Page title  
    Padding(  
      padding: const EdgeInsets.all(16.0),  
      child: Row(  
        mainAxisAlignment:  
MainAxisAlignment.spaceBetween,  
        children: [  
          Text(  
            _getPageTitle(),  
            style:  
Theme.of(context).textTheme.titleLarge,  
          ),  
          Text(  
            'Step ${_currentPage + 1} of 5',  
            style:  
Theme.of(context).textTheme.bodyMedium,  
          ),  
        ],  
      ),  
    ),  
    // Form pages  
    Expanded(  
      child: PageView(  
        controller: _pageController,  
        onPageChanged: (page) {  
          setState(() {  
            _currentPage = page;  
          });  
        },  
        physics: const  
NeverScrollableScrollPhysics(),  
        children: [  
          _buildPersonalDetailsPage(),  
          _buildHSCDetailsPage(),  
          _buildSSCDetailsPage(),  
          _buildSemesterDetailsPage(),  
          _buildAdditionalDetailsPage(),  
        ],  
      ),  
    ),  
    // Navigation buttons
```



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```
Padding(  
  padding: const EdgeInsets.all(16.0),  
  child: Row(  
    mainAxisAlignment:  
MainAxisAlignment.spaceBetween,  
    children: [  
      if (_currentPage > 0)  
        ElevatedButton(  
          onPressed: () {  
            _pageController.previousPage(  
              duration: const  
Duration(milliseconds: 300),  
              curve: Curves.easeInOut,  
            );  
          },  
          child: const Text('Previous'),  
        )  
      else  
        const SizedBox(),  
      ElevatedButton(  
        onPressed: () {  
          if (_currentPage < 4) {  
            // Validate current page before  
proceeding  
            if (_validateCurrentPage()) {  
              _pageController.nextPage(  
                duration: const  
Duration(milliseconds: 300),  
                curve: Curves.easeInOut,  
              );  
            }  
          } else {  
            // Submit form on last page  
            _submitForm();  
          }  
        },  
        child: Text(_currentPage < 4 ? 'Next'  
: 'Submit'),  
      ),  
    ],  
  ),  
)
```



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```
    ],  
    ),  
    ),  
);  
}  
  
String _getPageTitle() {  
    switch (_currentPage) {  
        case 0:  
            return 'Personal Details';  
        case 1:  
            return 'HSC Details';  
        case 2:  
            return 'SSC Details';  
        case 3:  
            return 'Semester Details';  
        case 4:  
            return 'Additional Details';  
        default:  
            return 'Registration';  
    }  
}  
  
bool _validateCurrentPage() {  
    // Validate specific fields based on current page  
    switch (_currentPage) {  
        case 0:  
            return _nameController.text.isNotEmpty &&  
                _emailController.text.isNotEmpty &&  
                _contactController.text.isNotEmpty &&  
                _rollNumberController.text.isNotEmpty;  
        case 1:  
            return _hscCollegeController.text.isNotEmpty &&  
                _hscYearController.text.isNotEmpty &&  
                _hscTotalMarksController.text.isNotEmpty &&  
                _hscOutOfMarksController.text.isNotEmpty;  
        case 2:  
            return _sscCollegeController.text.isNotEmpty &&  
                _sscYearController.text.isNotEmpty &&  
                _sscTotalMarksController.text.isNotEmpty &&  
                _sscOutOfMarksController.text.isNotEmpty;  
        case 3:  

```



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```
// Check if all semester fields are filled
bool allFilled = true;
for (int i = 0; i < 5; i++) {
    if (_cgpaControllers[i].text.isEmpty ||
        _percentageControllers[i].text.isEmpty) {
        allFilled = false;
        break;
    }
}

return allFilled;

case 4:
    // Resume is optional, so always return true
    return true;
default:
    return false;
}
}

Widget _buildPersonalDetailsPage() {
    return SingleChildScrollView(
        padding: const EdgeInsets.all(16.0),
        child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
                TextFormField(
                    controller: _nameController,
                    decoration: const InputDecoration(
                        labelText: 'Full Name',
                        prefixIcon: Icon(Icons.person),
                    ),
                ),
                validator: (value) {
                    if (value == null || value.isEmpty) {
                        return 'Please enter your name';
                    }
                    return null;
                },
            ),
            const SizedBox(height: 16),
            TextFormField(
                controller: _emailController,
                decoration: const InputDecoration(
                    labelText: 'Email ID',

```




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```
        prefixIcon: Icon(Icons.email),
      ),
      keyboardType: TextInputType.emailAddress,
      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),
    TextFormField(
      controller: _contactController,
      decoration: const InputDecoration(
        labelText: 'Contact Number',
        prefixIcon: Icon(Icons.phone),
      ),
      keyboardType: TextInputType.phone,
      validator: (value) {
        if (value == null || value.isEmpty) {
          return 'Please enter your contact
number';
        }
        return null;
      },
    ),
    const SizedBox(height: 16),
    TextFormField(
      controller: _rollNumberController,
      decoration: const InputDecoration(
        labelText: 'Roll Number',
        prefixIcon: Icon(Icons.numbers),
      ),
      validator: (value) {
        if (value == null || value.isEmpty) {
          return 'Please enter your roll number';
        }
        return null;
      },
    ),
```



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```
    ),  
    ],  
  ),  
);  
}  
  
Widget _buildHSCDetailsPage() {  
  return SingleChildScrollView(  
    padding: const EdgeInsets.all(16.0),  
    child: Column(  
      crossAxisAlignment: CrossAxisAlignment.start,  
      children: [  
        TextFormField(  
          controller: _hscCollegeController,  
          decoration: const InputDecoration(  
            labelText: 'College Name',  
            prefixIcon: Icon(Icons.school),  
          ),  
          validator: (value) {  
            if (value == null || value.isEmpty) {  
              return 'Please enter your college name';  
            }  
            return null;  
          },  
        ),  
        const SizedBox(height: 16),  
        TextFormField(  
          controller: _hscYearController,  
          decoration: const InputDecoration(  
            labelText: 'Year of Passing',  
            prefixIcon: Icon(Icons.calendar_today),  
          ),  
          keyboardType: TextInputType.number,  
          validator: (value) {  
            if (value == null || value.isEmpty) {  
              return 'Please enter year of passing';  
            }  
            return null;  
          },  
        ),  
        const SizedBox(height: 16),  
        Row(  

```



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```
children: [  
  Expanded(  
    child: TextFormField(  
      controller: _hscTotalMarksController,  
      decoration: const InputDecoration(  
        labelText: 'Total Marks',  
        prefixIcon: Icon(Icons.score),  
      ),  
      keyboardType: TextInputType.number,  
      validator: (value) {  
        if (value == null || value.isEmpty) {  
          return 'Required';  
        }  
        return null;  
      },  
      onChanged: (value) {  
        setState(() {});  
      },  
    ),  
  ),  
  const SizedBox(width: 16),  
  Expanded(  
    child: TextFormField(  
      controller: _hscOutOfMarksController,  
      decoration: const InputDecoration(  
        labelText: 'Out of Marks',  
        prefixIcon: Icon(Icons.score),  
      ),  
      keyboardType: TextInputType.number,  
      validator: (value) {  
        if (value == null || value.isEmpty) {  
          return 'Required';  
        }  
        return null;  
      },  
      onChanged: (value) {  
        setState(() {});  
      },  
    ),  
  ),  
],  
)
```



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```
const SizedBox(height: 16),
// Percentage calculation
if (_hscTotalMarksController.text.isNotEmpty &&
    _hscOutOfMarksController.text.isNotEmpty)
Card(
  child: Padding(
    padding: const EdgeInsets.all(16.0),
    child: Row(
      mainAxisAlignment:
MainAxisAlignment.spaceBetween,
      children: [
        const Text('Percentage:'),
        Text(
'$${(double.parse(_hscTotalMarksController.text) /
double.parse(_hscOutOfMarksController.text) *
100).toStringAsFixed(2)}%',
          style: const TextStyle(
            fontWeight: FontWeight.bold,
            fontSize: 16,
          ),
        ),
      ],
    ),
  ),
),
],
),
);
}

Widget _buildSSCDetailsPage() {
  return SingleChildScrollView(
    padding: const EdgeInsets.all(16.0),
    child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
        TextFormField(
          controller: _sscCollegeController,
          decoration: const InputDecoration(
            labelText: 'School Name',
            prefixIcon: Icon(Icons.school),

```



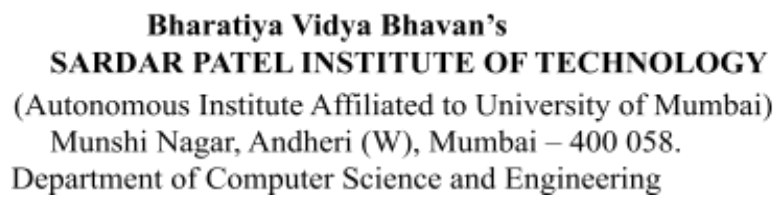
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```
),  
  validator: (value) {  
    if (value == null || value.isEmpty) {  
      return 'Please enter your school name';  
    }  
    return null;  
  },  
,  
,  
const SizedBox(height: 16),  
TextFormField(  
  controller: _sscYearController,  
  decoration: const InputDecoration(  
    labelText: 'Year of Passing',  
    prefixIcon: Icon(Icons.calendar_today),  
  ),  
,  
  keyboardType: TextInputType.number,  
  validator: (value) {  
    if (value == null || value.isEmpty) {  
      return 'Please enter year of passing';  
    }  
    return null;  
  },  
,  
,  
const SizedBox(height: 16),  
Row(  
  children: [  
    Expanded(  
      child: TextFormField(  
        controller: _sscTotalMarksController,  
        decoration: const InputDecoration(  
          labelText: 'Total Marks',  
          prefixIcon: Icon(Icons.score),  
        ),  
        keyboardType: TextInputType.number,  
        validator: (value) {  
          if (value == null || value.isEmpty) {  
            return 'Required';  
          }  
          return null;  
        },  
        onChanged: (value) {  
          setState(() {});  
        },  
      ),  
    ),  
  ],  
)
```



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```
    },  
    ),  
    ),  
    const SizedBox(width: 16),  
    Expanded(  
      child: TextFormField(  
        controller: _sscOutOfMarksController,  
        decoration: const InputDecoration(  
          labelText: 'Out of Marks',  
          prefixIcon: Icon(Icons.score),  
        ),  
        keyboardType: TextInputType.number,  
        validator: (value) {  
          if (value == null || value.isEmpty) {  
            return 'Required';  
          }  
          return null;  
        },  
        onChanged: (value) {  
          setState(() {});  
        },  
      ),  
    ),  
  ],  
const SizedBox(height: 16),  
// Percentage calculation  
if (_sscTotalMarksController.text.isNotEmpty &&  
    _sscOutOfMarksController.text.isNotEmpty)  
Card(  
  child: Padding(  
    padding: const EdgeInsets.all(16.0),  
    child: Row(  
      mainAxisAlignment:  
MainAxisAlignment.spaceBetween,  
      children: [  
        const Text('Percentage:'),  
        Text(  
          '${(double.parse(_sscTotalMarksController.text) /  
double.parse(_sscOutOfMarksController.text) *  
100).toStringAsFixed(2)}%',
```

```

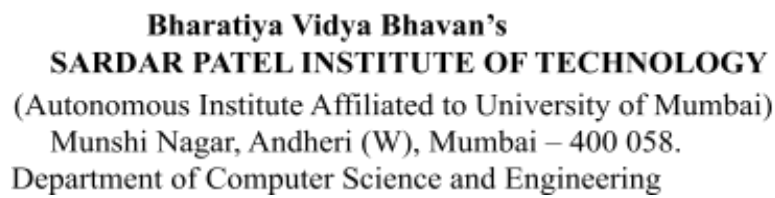
        labelText: 'CGPA',
        prefixIcon:
            Icon(Icons.grade),
      ),
      keyboardType:
        TextInputType.number,
      validator: (value) {
        if (value == null ||
            value.isEmpty) {
          return 'Required';
        }
        return null;
      },
    ),
  ),
  const SizedBox(width: 16),
  Expanded(
    child: TextFormField(
      controller:
        _percentageControllers[i],
      decoration: const
        InputDecoration(
          labelText: 'Percentage',
          prefixIcon:
            Icon(Icons.percent),
        ),
      keyboardType:
        TextInputType.number,
      validator: (value) {
        if (value == null ||
            value.isEmpty) {
          return 'Required';
        }
        return null;
      },
    ),
  ),
),
],
),
],
),
),

```




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```
    ),  
    const SizedBox(height: 16),  
  ],  
],  
),  
);  
}  
  
Widget _buildAdditionalDetailsPage() {  
  return SingleChildScrollView(  
    padding: const EdgeInsets.all(16.0),  
    child: Column(  
      crossAxisAlignment: CrossAxisAlignment.start,  
      children: [  
        // Resume upload  
        Card(  
          child: Padding(  
            padding: const EdgeInsets.all(16.0),  
            child: Column(  
              crossAxisAlignment:  
CrossAxisAlignment.start,  
              children: [  
                Text(  
                  'Resume Upload',  
                  style:  
Theme.of(context).textTheme.titleMedium,  
                ),  
                const SizedBox(height: 8),  
                const Text(  
                  'Upload your resume in PDF format',  
                  style: TextStyle(color: Colors.grey),  
                ),  
                const SizedBox(height: 16),  
                Row(  
                  children: [  
                    Expanded(  
                      child: Text(  
                        _resumePath ?? 'No file  
selected',  
                        style: TextStyle(  
                          color: _resumePath != null  
                            ? Colors.green
```



```

        : Colors.grey,
      ),
      overflow:
TextOverflow.ellipsis,
    ),
  ),
  const SizedBox(width: 16),
  ElevatedButton.icon(
    onPressed: _pickResume,
    icon: const
Icon(Icons.upload_file),
    label: const Text('Upload'),
  ),
],
),
],
),
),
),
const SizedBox(height: 24),
// Additional courses
Card(
  child: Padding(
    padding: const EdgeInsets.all(16.0),
    child: Column(
      crossAxisAlignment:
CrossAxisAlignment.start,
      children: [
        Text(
          'Additional Courses',
          style:
Theme.of(context).textTheme.titleMedium,
        ),
        const SizedBox(height: 16),
        Row(
          children: [
            Expanded(
              child: TextFormField(
                controller: _courseController,
                decoration: const
InputDecoration(
                  labelText: 'Course Name',

```



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```
hintText: 'e.g. Web
Development',
        prefixIcon: Icon(Icons.book),
      ),
    ),
  ),
  const SizedBox(width: 16),
  IconButton(
    onPressed: _addCourse,
    icon: const
Icon(Icons.add_circle),
    color:
Theme.of(context).colorScheme.primary,
  ),
],
),
const SizedBox(height: 16),
if (_additionalCourses.isNotEmpty) ...[
  const Text('Added Courses:'),
  const SizedBox(height: 8),
  ListView.builder(
    shrinkWrap: true,
    physics: const
NeverScrollableScrollPhysics(),
    itemCount:
_additionalCourses.length,
    itemBuilder: (context, index) {
      return ListTile(
        leading: const
Icon(Icons.book),
        title:
Text(_additionalCourses[index]),
        trailing: IconButton(
          icon: const
Icon(Icons.delete, color: Colors.red),
          onPressed: () =>
_removeCourse(index),
        ),
      );
    },
  ),
],
```



```
        ],  
      ),  
    ),  
  ),  
],  
,  
);  
}  
}
```

profile_screen.dart (/pages/profile_screen.dart)

```
import 'package:flutter/material.dart';  
import '../models/student.dart';  
import '../services/student_service.dart';  
import '../widgets/app_drawer.dart';  
  
class ProfileScreen extends StatelessWidget {  
  const ProfileScreen({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        title: const Text('My Profile'),  
      ),  
      drawer: const AppDrawer(),  
      body: FutureBuilder<Student?>(  
        future: StudentService.getStudent(),  
        builder: (context, snapshot) {  
          if (snapshot.connectionState ==  
ConnectionState.waiting) {  
            return const Center(  
              child: CircularProgressIndicator(),  
            );  
          }  
  
          if (snapshot.hasError) {  
            return Center(  
              child: Text('Error: ${snapshot.error}'),  
            );  
          }  
        }  
      )  
    );  
  }  
}
```



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```
final student = snapshot.data;

if (student == null) {
  return Center(
    child: Column(
      mainAxisAlignment:
MainAxisAlignment.center,
      children: [
        const Text('You have not registered
yet.'),

        const SizedBox(height: 16),
        ElevatedButton(
          onPressed: () {
Navigator.pushReplacementNamed(context, '/registration');
          },
          child: const Text('Register Now'),
        ),
      ],
    ),
  );
}

return SingleChildScrollView(
  padding: const EdgeInsets.all(16),
  child: Column(
    crossAxisAlignment:
CrossAxisAlignment.start,
    children: [
      // Personal Information
      _buildSection(
        context,
        'Personal Information',
        Icons.person,
        [
          _buildInfoRow('Name', student.name),
          _buildInfoRow('Email',
student.email),
          _buildInfoRow('Contact',
student.contact),
          _buildInfoRow('Roll Number',
student.rollNumber),
```



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```
    ],
  ),
  const SizedBox(height: 16),

  // HSC Details
  _buildSection(
    context,
    'HSC Details',
    Icons.school,
    [
      _buildInfoRow('College',
student.hsc.collegeName),
      _buildInfoRow('Year of Passing',
student.hsc.yearOfPassing),
      _buildInfoRow(
        'Marks',
        '${student.hsc.totalMarks} /
${student.hsc.outOfMarks}',
      ),
      _buildInfoRow(
        'Percentage',
        '${student.hsc.percentage.toStringAsFixed(2)}%',
      ),
    ],
  ),
  const SizedBox(height: 16),

  // SSC Details
  _buildSection(
    context,
    'SSC Details',
    Icons.school,
    [
      _buildInfoRow('School',
student.ssc.collegeName),
      _buildInfoRow('Year of Passing',
student.ssc.yearOfPassing),
      _buildInfoRow(
        'Marks',
        '${student.ssc.totalMarks} /
${student.ssc.outOfMarks}',
```



```
    ),  
    _buildInfoRow(  
      'Percentage',  
  
      '${student.ssc.percentage.toStringAsFixed(2)}%',  
    ),  
    1,  
  ),  
  const SizedBox(height: 16),  
  
  // Semester Details  
  _buildSection(  
    context,  
    'Semester Details',  
    Icons.grade,  
    List.generate(  
      student.semesters.length,  
      (i) => _buildInfoRow(  
        'Semester ${i + 1}',  
        'CGPA: ${student.semesters[i].cgpa}'  
      | 'Percentage: ${student.semesters[i].percentage}%',  
      ),  
    ),  
  ),  
  const SizedBox(height: 16),  
  
  // Additional Courses  
  if (student.additionalCourses.isNotEmpty)  
    _buildSection(  
      context,  
      'Additional Courses',  
      Icons.book,  
      student.additionalCourses  
        .map((course) =>  
_buildInfoRow('•', course))  
        .toList(),  
    ),  
    const SizedBox(height: 16),  
  
    // Resume  
    if (student.resumePath != null)  
      _buildSection(  

```



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```
context,
  'Resume',
  Icons.description,
  [
    _buildInfoRow('File', 'Resume
uploaded'),
    const SizedBox(height: 8),
    ElevatedButton.icon(
      onPressed: () {
        Navigator.pushNamed(context,
'/resume');
      },
      icon: const
Icon(Icons.visibility),
      label: const Text('View Resume'),
    ),
  ],
),
const SizedBox(height: 16),

// Edit button
Center(
  child: ElevatedButton.icon(
    onPressed: () {
      Navigator.pushReplacementNamed(context, '/registration');
    },
    icon: const Icon(Icons.edit),
    label: const Text('Edit Profile'),
  ),
),
],
),
);
},
),
);
}

Widget _buildSection(
  BuildContext context,
  String title,
```




```
IconData icon,  
List<Widget> children,  
) {  
  return Card(  
    child: Padding(  
      padding: const EdgeInsets.all(16),  
      child: Column(  
        crossAxisAlignment: CrossAxisAlignment.start,  
        children: [  
          Row(  
            children: [  
              Icon(  
                icon,  
                color:  
Theme.of(context).colorScheme.primary,  
              ),  
              const SizedBox(width: 8),  
              Text(  
                title,  
                style:  
Theme.of(context).textTheme.titleMedium?.copyWith(  
                  fontWeight: FontWeight.bold,  
                ),  
            ),  
          ],  
        ),  
        const Divider(),  
        ...children,  
      ],  
    ),  
  ),  
);  
}  
  
Widget _buildInfoRow(String label, String value) {  
  return Padding(  
    padding: const EdgeInsets.symmetric(vertical: 4),  
    child: Row(  
      crossAxisAlignment: CrossAxisAlignment.start,  
      children: [  
        SizedBox(  
          width: 100,
```



```
        child: Text(  
          label,  
          style: const TextStyle(  
            fontWeight: FontWeight.bold,  
            color: Colors.grey,  
          ),  
        ),  
      ),  
      Expanded(  
        child: Text(value),  
      ),  
    ],  
  ),  
);  
}
```

resume screen.dart (/pages/resume screen.dart)

```
import 'package:flutter/material.dart';  
import 'package:flutter_pdfview/flutter_pdfview.dart';  
import '../services/student_service.dart';  
import '../widgets/app_drawer.dart';  
  
class ResumeScreen extends StatelessWidget {  
  const ResumeScreen({super.key});  
  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      appBar: AppBar(  
        title: const Text('My Resume'),  
      ),  
      drawer: const AppDrawer(),  
      body: FutureBuilder<String?>(  
        future: _getResumePath(),  
        builder: (context, snapshot) {  
          if (snapshot.connectionState ==  
ConnectionState.waiting) {  
            return const Center(  
              child: CircularProgressIndicator(),  
            );  
          }  
        }  
      )  
    );  
  }  
}
```



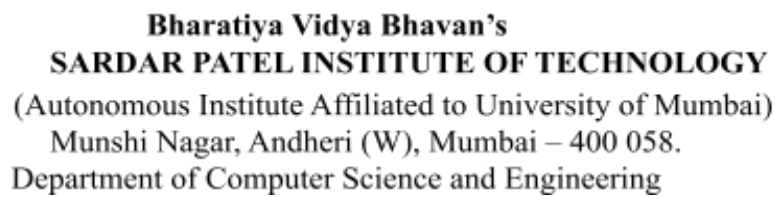
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```
        if (snapshot.hasError) {
            return Center(
                child: Text('Error: ${snapshot.error}'),
            );
        }

        final resumePath = snapshot.data;

        if (resumePath == null) {
            return Center(
                child: Column(
                    mainAxisAlignment:
MainAxisAlignment.center,
                    children: [
                        const Icon(
                            Icons.insert_drive_file,
                            size: 64,
                            color: Colors.grey,
                        ),
                        const SizedBox(height: 16),
                        const Text('No resume uploaded yet.'),
                        const SizedBox(height: 16),
                        ElevatedButton(
                            onPressed: () {
Navigator.pushReplacementNamed(context, '/registration');
                            },
                            child: const Text('Upload Resume'),
                        ),
                    ],
                ),
            );
        }

        return PDFView(
            filePath: resumePath,
            enableSwipe: true,
            swipeHorizontal: false,
            autoSpacing: true,
            pageFling: true,
            pageSnap: true,
```



```
Future<String?> _getResumePath() async {
    final student = await StudentService.getStudent();
    return student?.resumePath;
}
```

```
import '../models/company.dart';
```

```
class CompanyService {
    // Mock data for companies
```



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```
static List<Company> getMockCompanies() {  
    return [  
        Company(  
            name: 'Google',  
            location: 'Bangalore, India',  
            salaryRange: '₹12-18 LPA',  
            profile:  
                'Google is a multinational technology company  
specializing in Internet-related services and products.',  
            logoUrl:  
  
                'https://www.google.com/images/branding/googlelogo/2x/googlelogo_color_272x92dp.png',  
        ),  
        Company(  
            name: 'Microsoft',  
            location: 'Hyderabad, India',  
            salaryRange: '₹10-16 LPA',  
            profile:  
                'Microsoft Corporation is an American  
multinational technology company that develops,  
manufactures, licenses, supports, and sells computer  
software, consumer electronics, and personal computers.',  
            logoUrl:  
  
                'https://img-prod-cms-rt-microsoft-com.akamaized.net/cms/  
api/am/imageFileData/RE1Mu3b?ver=5c31',  
        ),  
        Company(  
            name: 'Amazon',  
            location: 'Pune, India',  
            salaryRange: '₹11-17 LPA',  
            profile:  
                'Amazon.com, Inc. is an American  
multinational technology company focusing on e-commerce,  
cloud computing, digital streaming, and artificial  
intelligence.',  
            logoUrl:  
  
                'https://upload.wikimedia.org/wikipedia/commons/thumb/a/a  
9/Amazon_logo.svg/1024px-Amazon_logo.svg.png',  
        ),  
    ]  
}
```



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```
Company(  
  name: 'Infosys',  
  location: 'Chennai, India',  
  salaryRange: '₹4-7 LPA',  
  profile:  
    'Infosys Limited is an Indian multinational  
information technology company that provides business  
consulting, information technology and outsourcing  
services.',  
  imageUrl:  
    'https://www.infosys.com/content/dam/infosys-web/en/global-  
1-resource/media-resources/infosys-logo.jpg',  
) ,  
Company(  
  name: 'TCS',  
  location: 'Mumbai, India',  
  salaryRange: '₹3.5-6.5 LPA',  
  profile:  
    'Tata Consultancy Services Limited is an  
Indian multinational information technology services and  
consulting company.',  
  imageUrl:  
    'https://www.tcs.com/content/dam/tcs/images/Newtcslogo/tc  
s-logo-tata-blue-1x-dec2021.png',  
) ,  
];  
}  
  
// Get all companies  
static Future<List<Company>> getCompanies() async {  
  // In a real app, this would fetch from an API  
  return getMockCompanies();  
}  
}
```

student service.dart (/services/student services.dart)

```
import 'dart:convert';  
import  
'package:shared_preferences/shared_preferences.dart';
```



```
import '../models/student.dart';

class StudentService {
  static const String _storageKey = 'student_profile';

  // Save student data
  static Future<void> saveStudent(Student student) async {
    final prefs = await SharedPreferences.getInstance();
    final studentJson = jsonEncode(student.toJson());
    await prefs.setString(_storageKey, studentJson);
  }

  // Get student data
  static Future<Student?> getStudent() async {
    final prefs = await SharedPreferences.getInstance();
    final studentJson = prefs.getString(_storageKey);

    if (studentJson == null) {
      return null;
    }

    return Student.fromJson(jsonDecode(studentJson));
  }

  // Check if student is registered
  static Future<bool> isRegistered() async {
    final student = await getStudent();
    return student != null;
  }
}
```

app_theme.dart (utils/app_theme.dart)

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

class AppTheme {
  static final ThemeData lightTheme = ThemeData(
    useMaterial3: true,
    colorScheme: ColorScheme.fromSeed(
      seedColor: Colors.blue,
      brightness: Brightness.light,
```



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```
),  
appBarTheme: const AppBarTheme(  
  centerTitle: true,  
  elevation: 0,  
),  
cardTheme: CardTheme(  
  elevation: 2,  
  shape: RoundedRectangleBorder(  
    borderRadius: BorderRadius.circular(12),  
  ),  
),  
inputDecorationTheme: InputDecorationTheme(  
  border: OutlineInputBorder(  
    borderRadius: BorderRadius.circular(8),  
  ),  
  filled: true,  
  contentPadding: const EdgeInsets.all(16),  
),  
);  
  
static final ThemeData darkTheme = ThemeData(  
  useMaterial3: true,  
  colorScheme: ColorScheme.fromSeed(  
    seedColor: Colors.blue,  
    brightness: Brightness.dark,  
  ),  
  appBarTheme: const AppBarTheme(  
    centerTitle: true,  
    elevation: 0,  
  ),  
  cardTheme: CardTheme(  
    elevation: 2,  
    shape: RoundedRectangleBorder(  
      borderRadius: BorderRadius.circular(12),  
    ),  
  ),  
  inputDecorationTheme: InputDecorationTheme(  
    border: OutlineInputBorder(  
      borderRadius: BorderRadius.circular(8),  
    ),  
    filled: true,  
    contentPadding: const EdgeInsets.all(16),  
  ),  
);
```




```
),  
);  
}
```

company.dart (/models/company.dart)

```
class Company {  
  final String name;  
  final String location;  
  final String salaryRange;  
  final String profile;  
  final String logoUrl;  
  
  Company({  
    required this.name,  
    required this.location,  
    required this.salaryRange,  
    required this.profile,  
    required this.logoUrl,  
  });  
  
  factory Company.fromJson(Map<String, dynamic> json) {  
    return Company(  
      name: json['name'],  
      location: json['location'],  
      salaryRange: json['salaryRange'],  
      profile: json['profile'],  
      logoUrl: json['logoUrl'],  
    );  
  }  
}
```

student.dart (/models/student.dart)

```
class Student {  
  final String name;  
  final String email;  
  final String contact;  
  final String rollNumber;  
  
  final EducationDetails hsc;  
  final EducationDetails ssc;
```



```
final List<SemesterDetails> semesters;
final String? resumePath;
final List<String> additionalCourses;

Student({
    required this.name,
    required this.email,
    required this.contact,
    required this.rollNumber,
    required this.hsc,
    required this.ssc,
    required this.semesters,
    this.resumePath,
    required this.additionalCourses,
});

factory Student.empty() {
    return Student(
        name: '',
        email: '',
        contact: '',
        rollNumber: '',
        hsc: EducationDetails.empty(),
        ssc: EducationDetails.empty(),
        semesters: List.generate(5, (_) =>
SemesterDetails.empty()),
        resumePath: null,
        additionalCourses: [],
    );
}

Map<String, dynamic> toJson() {
    return {
        'name': name,
        'email': email,
        'contact': contact,
        'rollNumber': rollNumber,
        'hsc': hsc.toJson(),
        'ssc': ssc.toJson(),
        'semesters': semesters.map((s) =>
s.toJson()).toList(),
    };
}
```



```
'resumePath': resumePath,
'additionalCourses': additionalCourses,
};
}

factory Student.fromJson(Map<String, dynamic> json) {
  return Student(
    name: json['name'],
    email: json['email'],
    contact: json['contact'],
    rollNumber: json['rollNumber'],
    hsc: EducationDetails.fromJson(json['hsc']),
    ssc: EducationDetails.fromJson(json['ssc']),
    semesters: (json['semesters'] as List)
      .map((s) => SemesterDetails.fromJson(s))
      .toList(),
    resumePath: json['resumePath'],
    additionalCourses:
List<String>.from(json['additionalCourses']),
  );
}

class EducationDetails {
  final String collegeName;
  final String yearOfPassing;
  final double totalMarks;
  final double outOfMarks;

  EducationDetails({
    required this.collegeName,
    required this.yearOfPassing,
    required this.totalMarks,
    required this.outOfMarks,
  });

  factory EducationDetails.empty() {
    return EducationDetails(
      collegeName: '',
      yearOfPassing: '',
      totalMarks: 0,
      outOfMarks: 0,
```



```
);  
}  
  
double get percentage => outOfMarks > 0 ? (totalMarks /  
outOfMarks) * 100 : 0;  
  
Map<String, dynamic> toJson() {  
    return {  
        'collegeName': collegeName,  
        'yearOfPassing': yearOfPassing,  
        'totalMarks': totalMarks,  
        'outOfMarks': outOfMarks,  
    };  
}  
  
factory EducationDetails.fromJson(Map<String, dynamic>  
json) {  
    return EducationDetails(  
        collegeName: json['collegeName'],  
        yearOfPassing: json['yearOfPassing'],  
        totalMarks: json['totalMarks'],  
        outOfMarks: json['outOfMarks'],  
    );  
}  
  
class SemesterDetails {  
    final double cgpa;  
    final double percentage;  
  
    SemesterDetails({  
        required this.cgpa,  
        required this.percentage,  
    });  
  
    factory SemesterDetails.empty() {  
        return SemesterDetails(  
            cgpa: 0,  
            percentage: 0,  
        );  
    }  
}
```

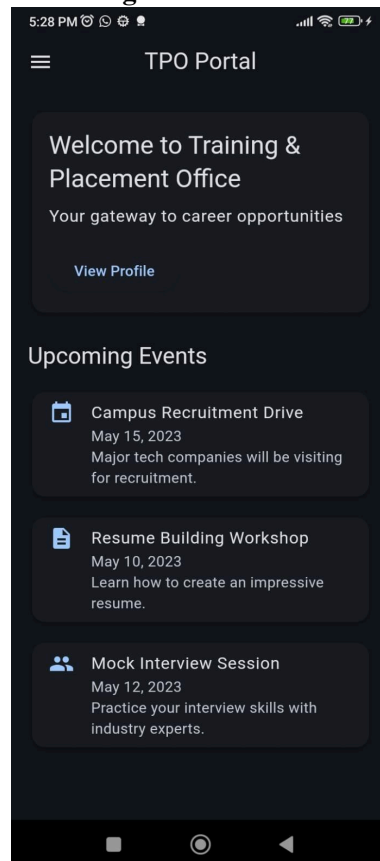


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SARDAR PATEL INSTITUTE OF TECHNOLOGY
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Munshi Nagar, Andheri (W), Mumbai – 400 058.
Department of Computer Science and Engineering

```
Map<String, dynamic> toJson() {  
    return {  
        'cgpa': cgpa,  
        'percentage': percentage,  
    };  
}  
  
factory SemesterDetails.fromJson(Map<String, dynamic>  
json) {  
    return SemesterDetails(  
        cgpa: json['cgpa'],  
        percentage: json['percentage'],  
    );  
}
```

Screenshots

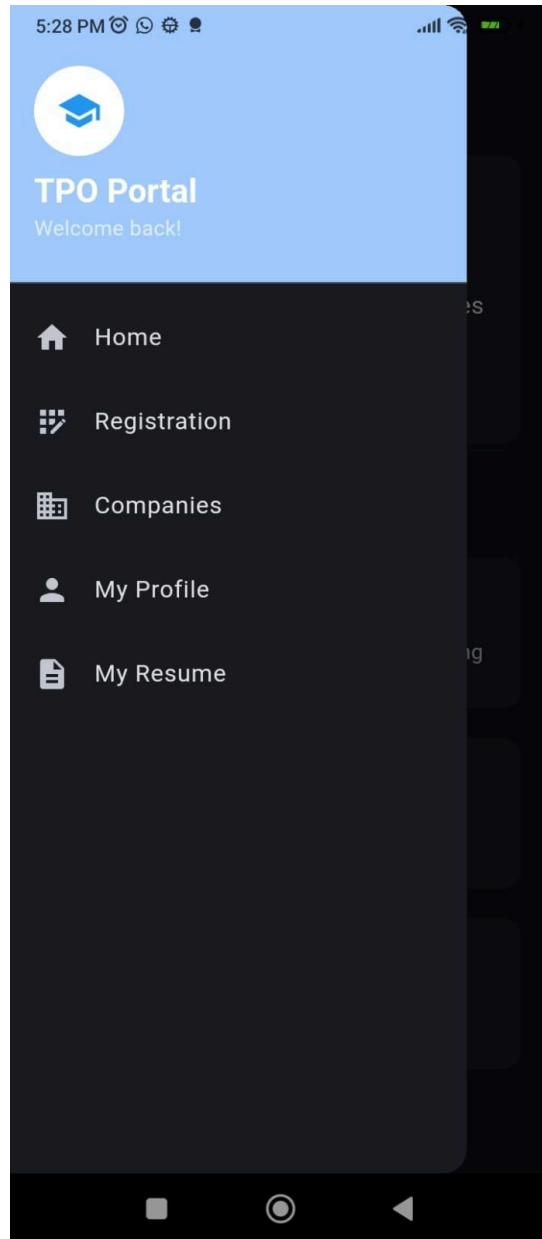
Home Page





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Navbar





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Registration Page

5:22 PM 5G

Registration

Personal Details Step 1 of 5

Full Name
Prabhat Tiwari

Email ID
prabhat.tiwari24@spit.ac.in

Contact Number
8928038098

Roll Number
2024510066

Next

5:22 PM 5G

Registration

HSC Details Step 2 of 5

College Name
R A Polar College of Commerce and

Year of Passing
2021

Total Marks
439

Out of Marks
500

Percentage: 87.80%

Previous Next



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Department of Computer Science and Engineering

5:22 PM 5G

Registration

SSC Details Step 3 of 5

School Name
K M S English Medium School CBSI

Year of Passing
2019

Total Marks
464

Out of Marks
500

Percentage: 92.80%

Previous Next

5:22 PM 5G

Registration

Semester Details Step 4 of 5

★ 10 % 100

Semester 3

CGPA
★ 9.8

Percent...
% 98

Semester 4

CGPA
★ 10

Percent...
% 100

Semester 5

CGPA
★ 9.8

Percent...
% 98

Previous Next



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Department of Computer Science and Engineering

Profile Page

5:23 PM

My Profile

Personal Information

Name

Prabhat Tiwari

Email

prabhat.tiwari24@spit.ac.in

Contact

8928038098

Roll Number

2024510066

HSC Details

College

R A Polar College of Commerce and Economics

Year of Passing

2021

Marks

439.0 / 500.0

Percentage

87.80%

SSC Details

School

K M S English Medium School CBSE

Year of Passing

2019

Marks

464.0 / 500.0

Registration successful!

5:23 PM

My Profile

Semester 1

CGPA: 9.8 | Percentage: 98.0%

Semester 2

CGPA: 10.0 | Percentage: 100.0%

Semester 3

CGPA: 9.8 | Percentage: 98.0%

Semester 4

CGPA: 10.0 | Percentage: 100.0%

Semester 5

CGPA: 9.8 | Percentage: 98.0%

Additional Courses

MERN

FastAPI

EDA

Resume

File

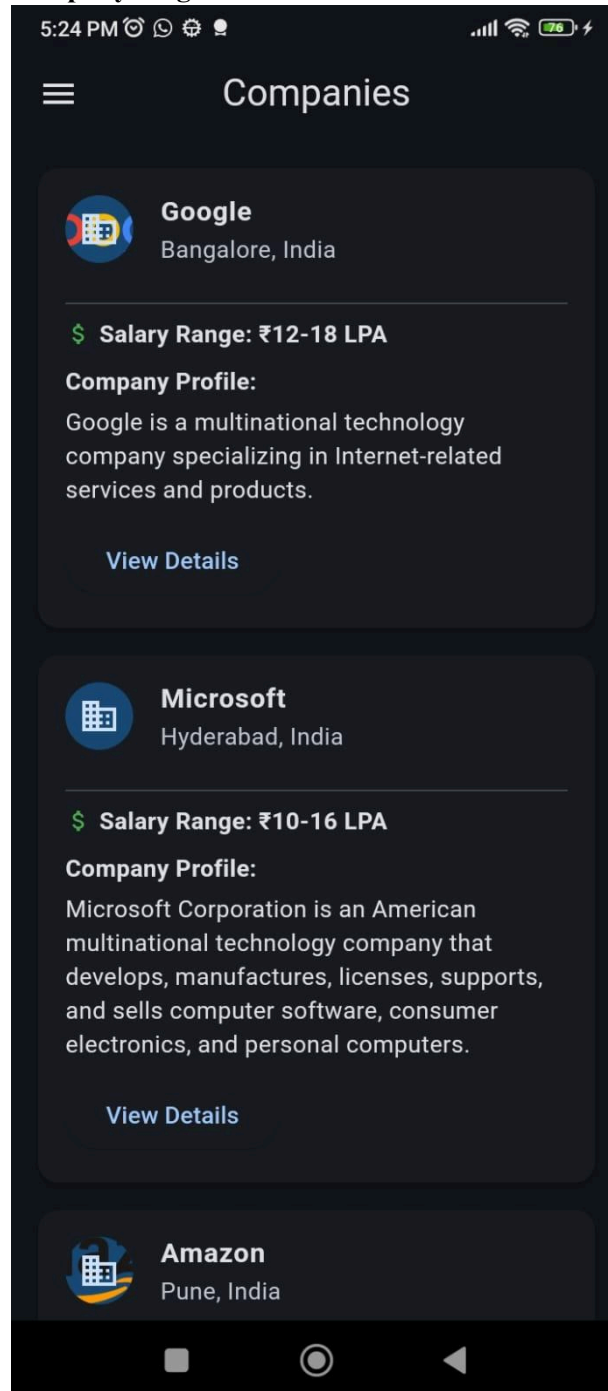
Resume uploaded

View Resume

Edit Profile



Company Page





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Department of Computer Science and Engineering

View Resume

5:23 PM

☰

My Resume

PRABHAT TIWARI

prabhat328@outlook.com • +91 8928038098 • Mumbai, Maharashtra
[linkedin.com/in/prabhat328](#) • [github.com/prabhat328](#)

EDUCATION

Masters of Computer Application Sardar Patel Institute of Technology	Pursuing
Bachelor Of Science in Computer Science (9.76 CGPA) Kishinchand Chellaram College	Aug 2020- July 2023
HSC (87.8%) R A Podar College of Commerce and Economics	Aug 2017- Aug 2019

WORK EXPERIENCE

Full Stack Developer | AGenC.ai July 2024 - Sept 2024

- Developed and optimized backend services using Node.js and FastAPI, implementing a microservices architecture for improved scalability and maintainability.
- Deployed and managed LLM foundational models on AWS, ensuring efficient model performance and availability.
- Handled server management and cloud infrastructure on AWS, streamlining deployments and monitoring system health.

PROJECTS

GujjuBoy Clothing: E-commerce <https://gujuboyclothing.com>

- Developed a robust e-commerce platform using MERN with seamless payment integration, ensuring secure and efficient transactions.
- Designed a scalable, user-friendly system for product management, order processing, and customer engagement, optimizing performance and usability.

CrypticHunt: Treasure Hunt Game <http://scotworld.pythonanywhere.com>

- Built an interactive treasure hunt game using Django and MySQL.
- Implemented QR code scanning for clue retrieval and unique team paths.
- Added timestamping to track progress and ensure fair play.

SKILLS

- Programming Language:** C++, Python, JAVA
- Technologies:** Django, FastAPI, Node, Express
- Database:** MongoDB, SQL
- Cloud:** AWS, GCD

PARTICIPATION & ACHIEVEMENTS

- 3rd Place - WebWeavers (Dr BMN College):** Led backend development for a carbon footprint website, optimizing performance with caching and query tuning. Built a scalable Node.js & Express.js architecture with secure authentication and efficient data storage.
- Version 25 (NIT-Trichy):** Recognized as a finalist for presenting an innovative idea at Pitch to Rich and developing a functional solution at the Dev Duo Hackathon, showcasing technical and entrepreneurial skills.

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Question and Answers

1) How to create SideDrawer Navigation?

Ans : A Side Drawer Navigation (also known as a Navigation Drawer) is a sliding menu that appears from the side of the screen. It is commonly used for navigation in Flutter apps.

Steps to Implement a Side Drawer:

Wrap your Scaffold with a Drawer widget.

Use a ListView inside the Drawer to create navigation options.

Use Navigator.push() to navigate between screens.



	<p>2) How did you use the 60-30-10 rule in your application?</p> <p>Ans : The ColorScheme.fromSeed forms the 60% primary color of the UI, with blue as the dominant color, adapting dynamically for both light and dark modes. This ensures a visually appealing and cohesive look while maintaining the 60-30-10 color rule.</p> <p>The secondary color (30%) is applied to UI elements such as cards, input fields, and the app bar, creating contrast against the primary background while maintaining harmony within the theme.</p> <p>The accent color (10%) is used for buttons, highlights, and icons, ensuring key interactions stand out. Further refinement can be achieved by explicitly defining accent colors in button themes or using a specific highlight color for elevated actions.</p> <p>3) Which new elements did you use for creating UI components ?</p> <p>Ans : For an interactive and well-structured UI, I used BottomNavigationBar for screen switching and Drawer for side navigation. The AppBar provides easy access to the title and actions. Card displays product details, while ListView.builder efficiently handles dynamic content. Additionally, ElevatedButton is used for actions, and a Gradient Background enhances aesthetics.</p>
Conclusion	<p>The TPO App provides a structured and interactive platform for students to manage their academic and placement-related information efficiently. With a side navigation drawer, users can seamlessly navigate through different sections, including registration, resume upload, and company details. The app ensures a smooth user experience by allowing students to view their personal details, uploaded resumes, and company opportunities. By integrating a well-designed UI with the 60-30-10 color rule, the app enhances usability and engagement, making it a valuable tool for both students and placement coordinators.</p>