```
import 'dart:convert';
import 'package:flutter/material.dart';
import 'package:http/http.dart' as http;
import 'package:shared preferences/shared preferences.dart';
void main() {
 runApp(const StudentConnectApp());
const StudentConnectApp({super.key});
static const String homeRoute = '/home';
static const String tasksRoute = '/tasks';
 static const String aboutRoute = '/about';
 @override
Widget build(BuildContext context) {
   return MaterialApp(
      colorSchemeSeed: Colors.lightBlue,
      useMaterial3: true,
     initialRoute: homeRoute,
     routes: {
      homeRoute: (context) => const HomeScreen(),
       weatherRoute: (context) => const WeatherScreen(),
       tasksRoute: (context) => const TasksScreen(),
       contactRoute: (context) => const ContactAdminScreen(),
       aboutRoute: (context) => const AboutScreen(),
```

```
const AppDrawer({super.key});
@override
Widget build(BuildContext context) {
    child: ListView(
      children: [
          child: Text(
            style: TextStyle(
              fontSize: 24,
         ),
         ListTile(
           leading: const Icon(Icons.home),
           onTap: () {
             Navigator.pushNamedAndRemoveUntil(
                 context, StudentConnectApp.homeRoute, (route) =>
false);
         ListTile(
           leading: const Icon(Icons.cloud),
          onTap: () {
             Navigator.pushNamedAndRemoveUntil(
                 context, StudentConnectApp.weatherRoute, (route) =>
false);
         ListTile(
           leading: const Icon(Icons.check box),
          onTap: () {
             Navigator.pushNamedAndRemoveUntil(
```

```
context, StudentConnectApp.tasksRoute, (route) =>
false);
         ),
         ListTile(
           leading: const Icon(Icons.contact mail),
           onTap: () {
             Navigator.pushNamedAndRemoveUntil(
false);
         ),
         ListTile(
           leading: const Icon(Icons.info),
           onTap: () {
             Navigator.pushNamedAndRemoveUntil(
                 context, StudentConnectApp.aboutRoute, (route) =>
false);
const HomeScreen({super.key});
@override
Widget build(BuildContext context) {
     drawer: const AppDrawer(),
    appBar: AppBar(title: const Text('Home')),
    body: Container(
       color: Colors.lightBlue.shade50,
       child: ListView(
         padding: const EdgeInsets.all(16),
         children: [
```

```
borderRadius: BorderRadius.circular(12),
             child: Image.network(
at&fit=crop&w=800&q=80',
               height: 180,
               fit: BoxFit.cover,
           ),
           const SizedBox(height: 16),
             style: TextStyle(
               fontSize: 24,
               fontWeight: FontWeight.bold,
               color: Colors.lightBlue,
             ),
             textAlign: TextAlign.center,
           ),
           const SizedBox(height: 12),
             'This app helps you keep track of weather updates, your
personal tasks, and allows you to contact the admin easily.',
             style: TextStyle(fontSize: 16),
             textAlign: TextAlign.center,
           ),
           const SizedBox(height: 24),
             shape: RoundedRectangleBorder(
             child: ListTile(
Colors.lightBlue),
               trailing: const Icon(Icons.arrow forward ios),
               onTap: () =>
                   Navigator.pushNamed(context,
StudentConnectApp.weatherRoute),
           ),
           const SizedBox(height: 12),
```

```
shape: RoundedRectangleBorder(
             child: ListTile(
Colors.lightBlue),
               trailing: const Icon(Icons.arrow_forward_ios),
               onTap: () =>
                   Navigator.pushNamed(context,
StudentConnectApp.tasksRoute),
           ),
           const SizedBox(height: 12),
             elevation: 4,
             shape: RoundedRectangleBorder(
             child: ListTile(
               leading: const Icon(Icons.contact mail, color:
Colors.lightBlue),
               trailing: const Icon(Icons.arrow forward ios),
               onTap: () =>
                   Navigator.pushNamed(context,
StudentConnectApp.contactRoute),
             ),
       ),
const WeatherScreen({super.key});
@override
```

```
List<String> dates = [];
List<double> temperatures = [];
bool isLoading = true;
String? error;
Future<void> fetchWeatherHistory() async {
  setState(() {
    isLoading = true;
  });
  final now = DateTime.now();
  final startDate = now.subtract(const Duration(days: 6));
  final startDateStr = "${startDate.year.toString().padLeft(4, '0')}-"
       "${startDate.month.toString().padLeft(2, '0')}-"
      "${startDate.day.toString().padLeft(2, '0')}";
  final endDateStr = "${now.year.toString().padLeft(4, '0')}-"
       "${now.month.toString().padLeft(2, '0')}-"
      "${now.day.toString().padLeft(2, '0')}";
  final url = Uri.parse(
946&start date=$startDateStr&end date=$endDateStr&daily=temperature 2m
    final response = await http.get(url);
    if (response.statusCode == 200) {
       final data = jsonDecode(response.body);
      final daily = data['daily'];
      final List<String> fetchedDates =
          List<String>.from(daily['time'] ?? []);
      final List<dynamic> tempMaxList = daily['temperature 2m max'] ??
       final List<dynamic> tempMinList = daily['temperature 2m min'] ??
[];
      if (fetchedDates.isEmpty ||
          tempMaxList.isEmpty ||
```

```
tempMinList.isEmpty ||
           fetchedDates.length != tempMaxList.length ||
           fetchedDates.length != tempMinList.length) {
         });
       setState(() {
         dates = fetchedDates;
         temperatures = List.generate(
             tempMaxList.length,
             (index) =>
                 ((tempMaxList[index] + tempMinList[index]) /
2).toDouble());
       });
      setState(() {
     setState(() {
 @override
  super.initState();
  fetchWeatherHistory();
@override
Widget build(BuildContext context) {
```

```
drawer: const AppDrawer(),
     appBar: AppBar(title: const Text('Weather History')),
     body: isLoading
         : error != null
             ? Center(child: Text(error!, style: const TextStyle(color:
Colors.red)))
             : Padding(
                 padding: const EdgeInsets.all(16),
                 child: Column (
                   children: [
                         size: 80, color: Colors.lightBlue),
                     const SizedBox(height: 16),
                       'Bengaluru - Last 7 Days Avg Temperature',
                       style:
Theme.of(context).textTheme.headlineSmall,
                       textAlign: TextAlign.center,
                     ),
                     const SizedBox(height: 12),
                       child: ListView.builder(
                         itemCount: dates.length,
                         itemBuilder: (context, index) {
                           final date = dates[index];
                           final temp = temperatures[index];
                           final dateFormatted = DateTime.parse(date);
                           final displayDate =
"${dateFormatted.day}-${dateFormatted.month}-${dateFormatted.year}";
                             margin: const
EdgeInsets.symmetric(vertical: 6),
                             child: ListTile(
                               leading: const Icon(Icons.thermostat,
                                   color: Colors.orange),
                               title: Text(displayDate),
                               trailing: Text(
                                  '${temp.toStringAsFixed(1)} °C',
                                 style: const TextStyle(
                                      fontWeight: FontWeight.bold,
```

```
fontSize: 18),
                               ),
                          );
                     ),
                     ElevatedButton.icon(
                       onPressed: fetchWeatherHistory,
                      icon: const Icon(Icons.refresh),
                       label: const Text('Refresh'),
const TasksScreen({super.key});
@override
State<TasksScreen> createState() => TasksScreenState();
class TasksScreenState extends State<TasksScreen> {
List<String> tasks = [];
@override
void initState() {
  super.initState();
  loadTasks();
  final prefs = await SharedPreferences.getInstance();
  final savedTasks = prefs.getStringList('tasks') ?? [];
  setState(() {
    tasks = savedTasks;
```

```
Future<void> saveTasks() async {
 final prefs = await SharedPreferences.getInstance();
 await prefs.setStringList('tasks', tasks);
void showTaskDialog({String? initialText, int? index}) {
 if (initialText != null) {
   taskController.text = initialText;
   editingIndex = index;
   taskController.clear();
   editingIndex = null;
 showDialog(
   builder: (context) {
     return AlertDialog(
        title: Text(editingIndex == null ? 'Add Task' : 'Edit Task'),
         controller: taskController,
           hintText: 'Enter task',
        ),
       actions: [
             onPressed: () {
               Navigator.pop(context);
               _taskController.clear();
         ElevatedButton (
             onPressed: () {
               if (text.isNotEmpty) {
                  setState(() {
                   if (editingIndex == null) {
                     tasks.add(text);
```

```
tasks[editingIndex!] = text;
                   });
                   saveTasks();
                   Navigator.pop(context);
                   taskController.clear();
               child: const Text('Save')),
       );
  setState(() {
     tasks.removeAt(index);
  });
   saveTasks();
 @override
Widget build(BuildContext context) {
    drawer: const AppDrawer(),
    appBar: AppBar(title: const Text('Tasks')),
    body: tasks.isEmpty
             child: Text(
               textAlign: TextAlign.center,
               style: TextStyle(fontSize: 18),
             ),
         : ListView.builder(
             itemCount: tasks.length,
             itemBuilder: (context, index) {
                 margin:
                     const EdgeInsets.symmetric(horizontal: 12,
vertical: 6),
                 child: ListTile(
```

```
leading: const Icon(Icons.task_alt, color:
Colors.lightBlue),
                   title: Text(tasks[index]),
                   trailing: Row(
                     children: [
Colors.orange),
                         onPressed: () => showTaskDialog(
                             initialText: tasks[index], index: index),
                         icon: const Icon(Icons.delete, color:
Colors.red),
                      ),
                ),
               );
           ),
     floatingActionButton: FloatingActionButton(
       onPressed: () => showTaskDialog(),
      tooltip: 'Add Task',
       child: const Icon(Icons.add),
const ContactAdminScreen({super.key});
@override
```

```
final emailController = TextEditingController();
final messageController = TextEditingController();
Future<void> sendEmail() async {
  final name = Uri.encodeComponent( nameController.text.trim());
  final email = Uri.encodeComponent( emailController.text.trim());
  final message = Uri.encodeComponent( messageController.text.trim());
  final mailtoUrl =
mailto:admin@college.edu?subject=Student%20Contact&body=Name:%20$name%
OAEmail:%20$email%0A%0AMessage:%20$message';
  if (await canLaunchUrl(Uri.parse(mailtoUrl))) {
    await launchUrl(Uri.parse(mailtoUrl));
    ScaffoldMessenger.of(context).showSnackBar(
      const SnackBar(content: Text('Could not open mail app')),
    );
@override
void dispose() {
  nameController.dispose();
  emailController.dispose();
  messageController.dispose();
  super.dispose();
@override
Widget build(BuildContext context) {
    drawer: const AppDrawer(),
    appBar: AppBar(title: const Text('Contact Admin')),
    body: Padding(
      padding: const EdgeInsets.all(16),
      child: Form(
        key: formKey,
        child: ListView(
          children: [
            const Icon(Icons.contact mail,
                size: 80, color: Colors.lightBlue),
```

```
const SizedBox(height: 16),
               controller: nameController,
                 labelText: 'Name',
                 border: OutlineInputBorder(),
                 prefixIcon: Icon(Icons.person),
               validator: (value) =>
                   value == null || value.isEmpty ? 'Enter your name' :
null,
             ),
             const SizedBox(height: 12),
                 labelText: 'Email',
                 border: OutlineInputBorder(),
                 prefixIcon: Icon(Icons.email),
               ),
               keyboardType: TextInputType.emailAddress,
               validator: (value) {
                 if (value == null || value.isEmpty) {
                 final emailRegex = RegExp(r'^[^0]+0[^0]+.[^0]+');
                 if (!emailRegex.hasMatch(value)) {
                   return 'Enter valid email';
             ),
             const SizedBox(height: 12),
             TextFormField(
               controller: _messageController,
               decoration: const InputDecoration(
                 labelText: 'Message',
                 prefixIcon: Icon(Icons.message),
               maxLines: 5,
```

```
value == null || value.isEmpty ? 'Enter your
message' : null,
             ),
             const SizedBox(height: 20),
               icon: const Icon(Icons.send),
               label: const Text('Send'),
               onPressed: () {
                 if ( formKey.currentState!.validate()) {
                   sendEmail();
             ),
       ),
const AboutScreen({super.key});
@override
Widget build(BuildContext context) {
  return Scaffold(
     drawer: const AppDrawer(),
     appBar: AppBar(title: const Text('About')),
    body: Padding(
       padding: const EdgeInsets.all(16),
      child: ListView(
         children: const [
           Icon(Icons.info_outline, size: 80, color: Colors.lightBlue),
           SizedBox (height: 16),
             'Student Connect App\n\n'
tasks, '
```















