

To-Do List Application

Submitted to:

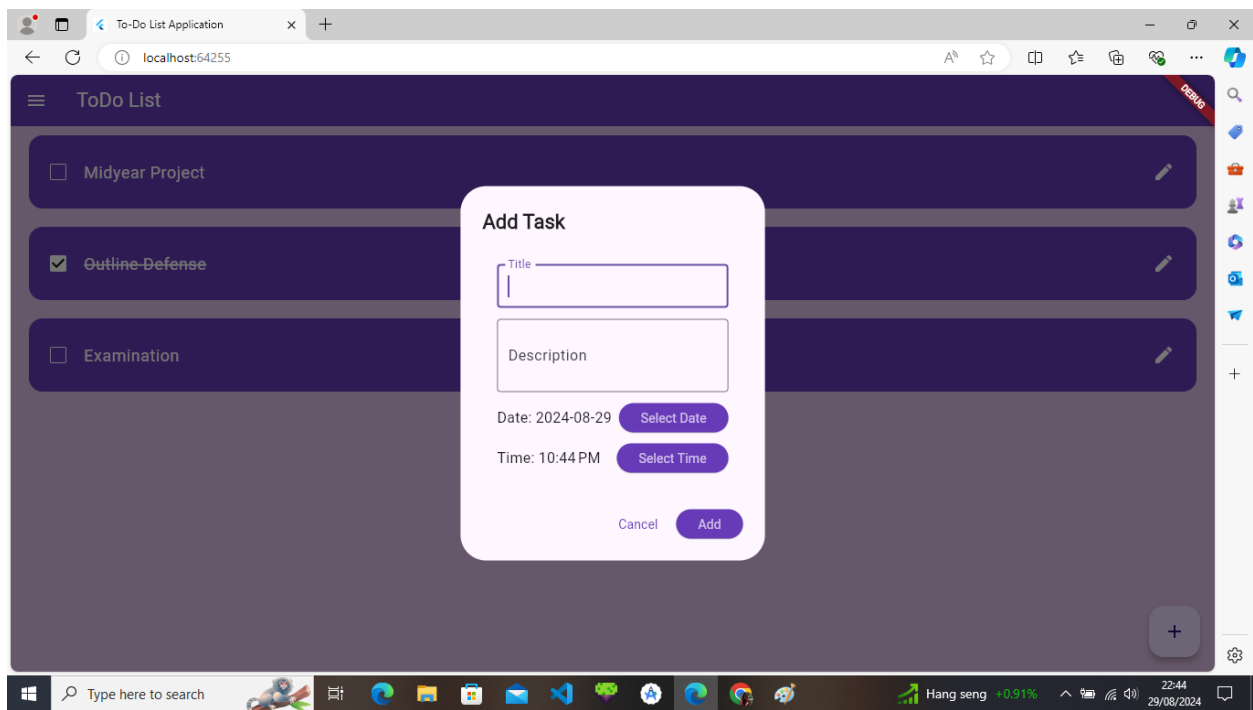
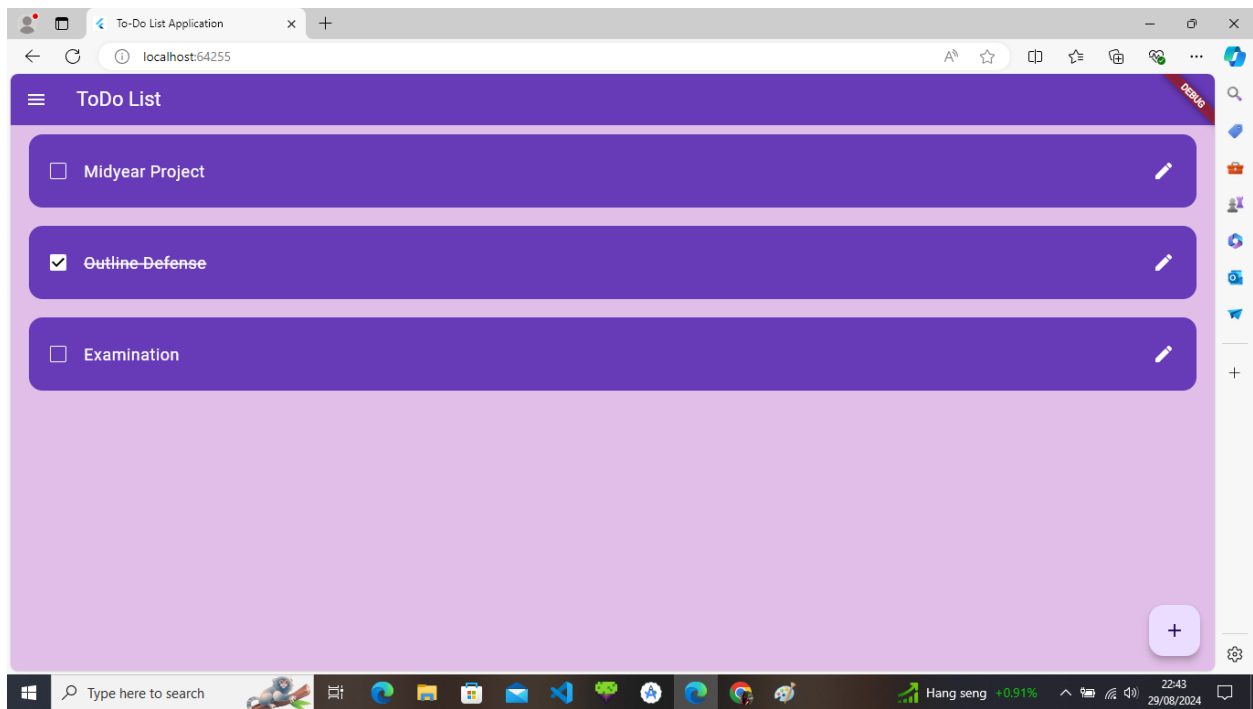
Mr. Vince Lorenz Dela Rea

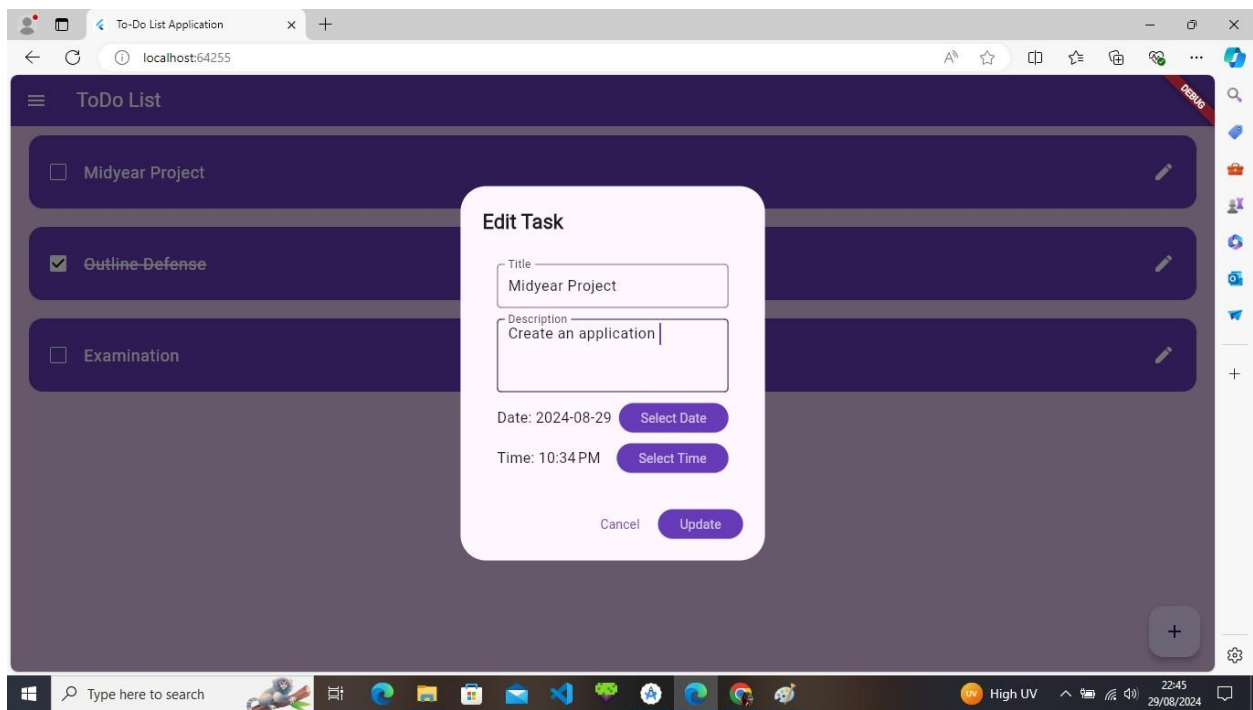
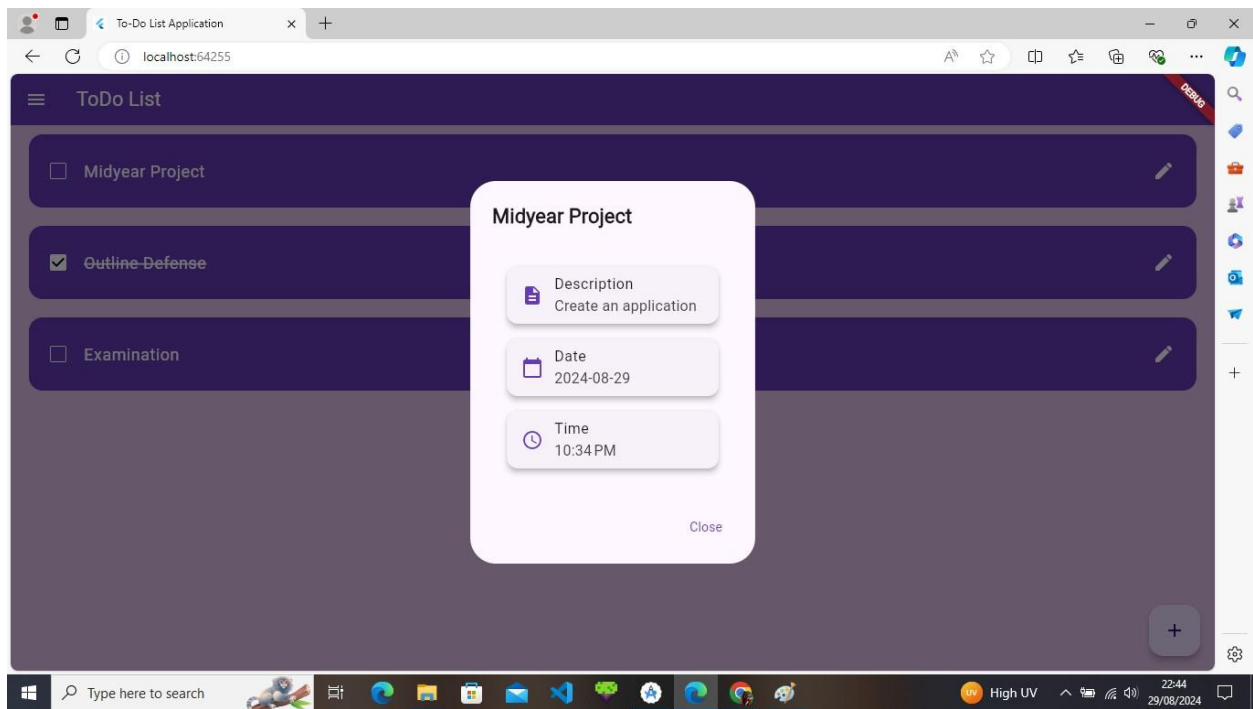
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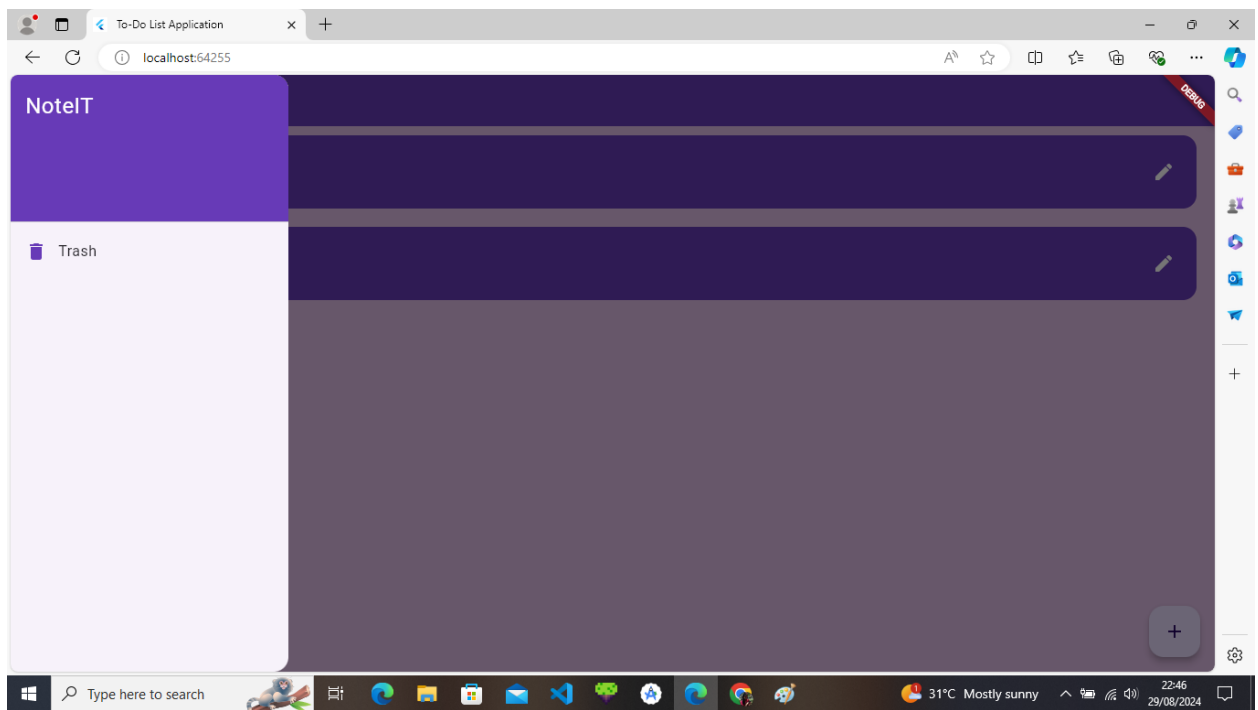
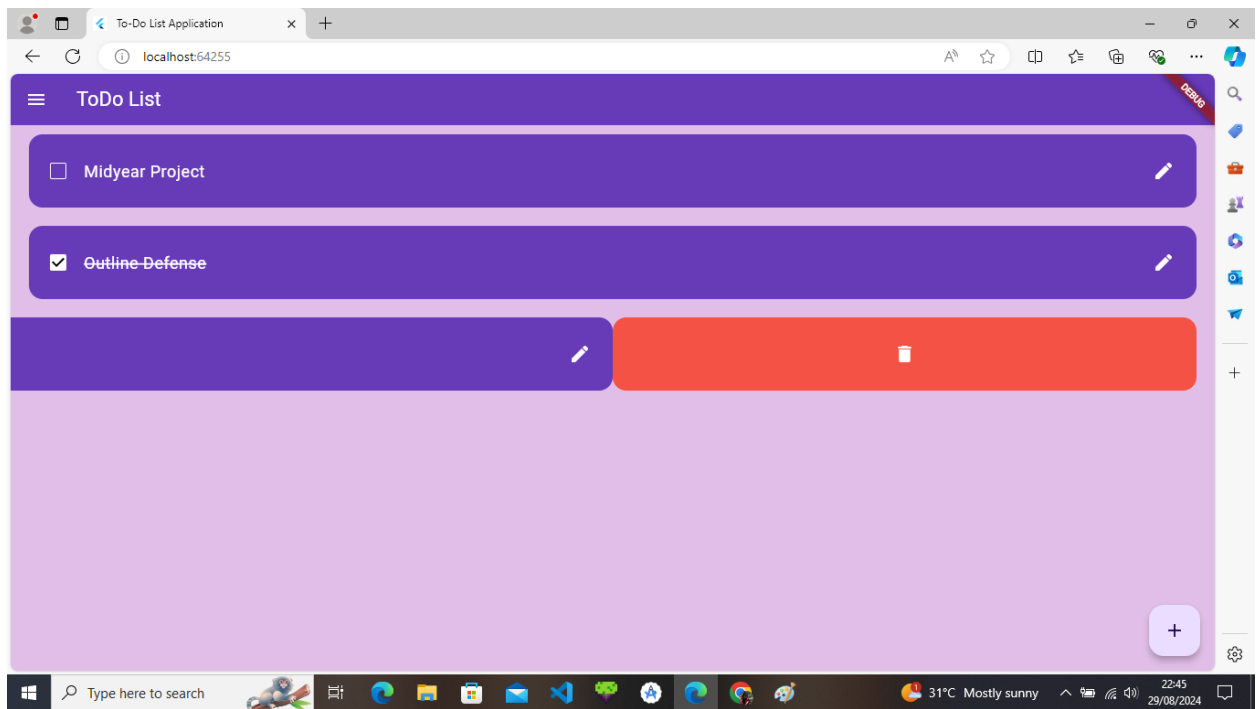
Maria Isabel D. Cenido

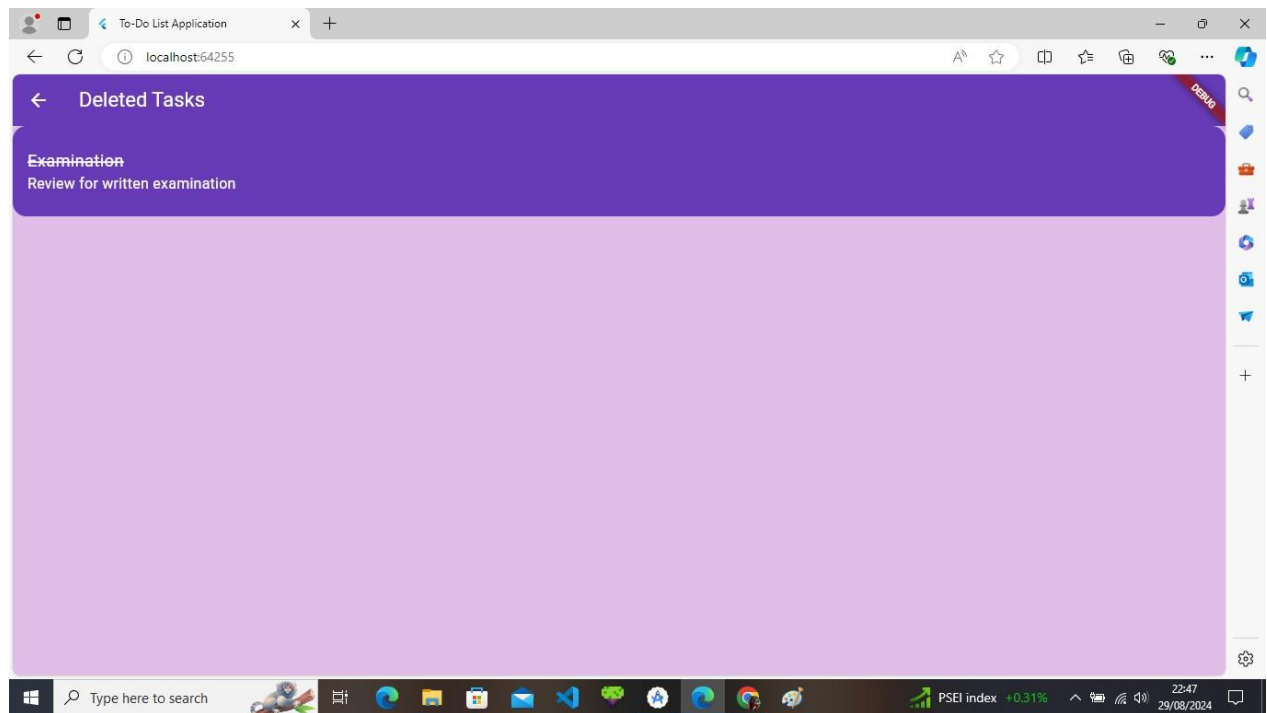
Pamela B. Diosana

Bryce Clarence Handog









Functions of the application:

ADD – the user can add a task in a specific date.

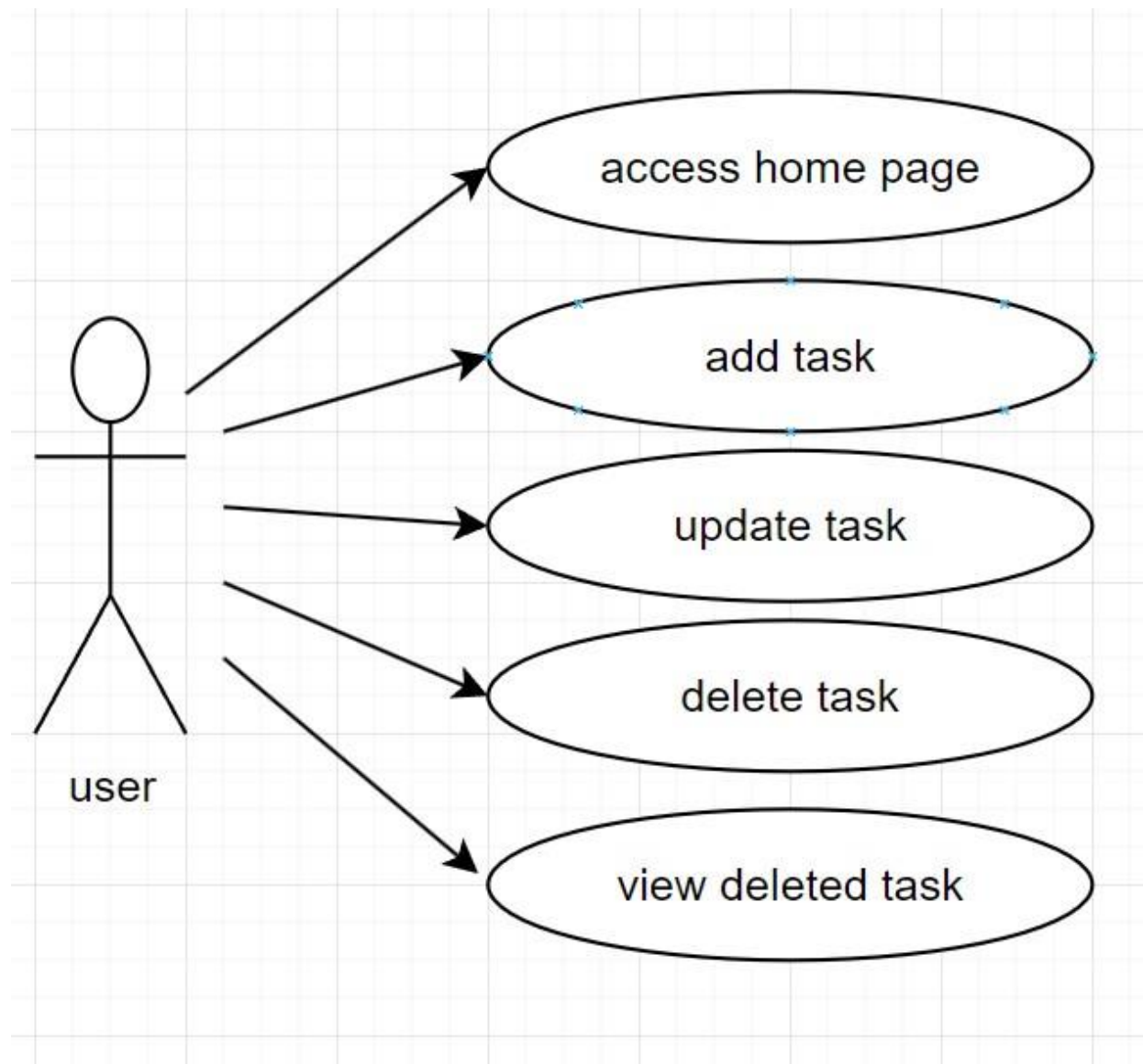
UPDATE - the user can update the task if they need to.

REMOVE/DELETE – the user can remove or delete a specific task.

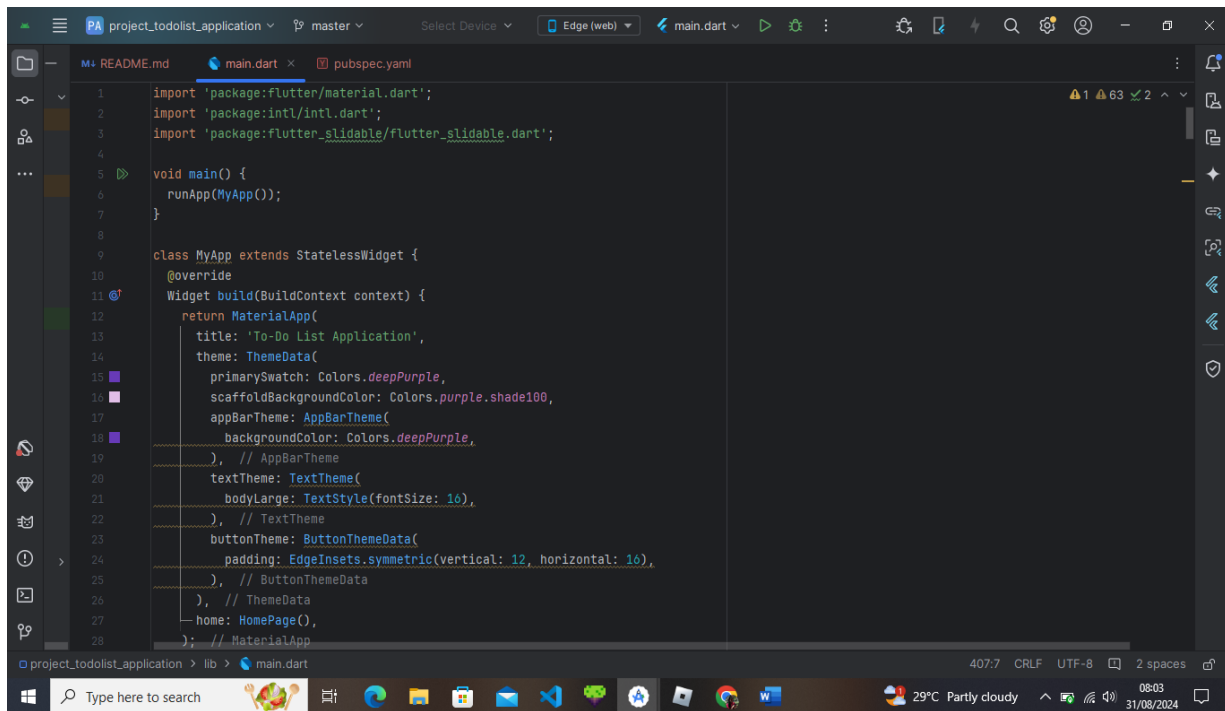
TIMER – the user can input a time to a task to manage their task duration.

VIEW DELETED TASK – the user will be able to view the deleted task.

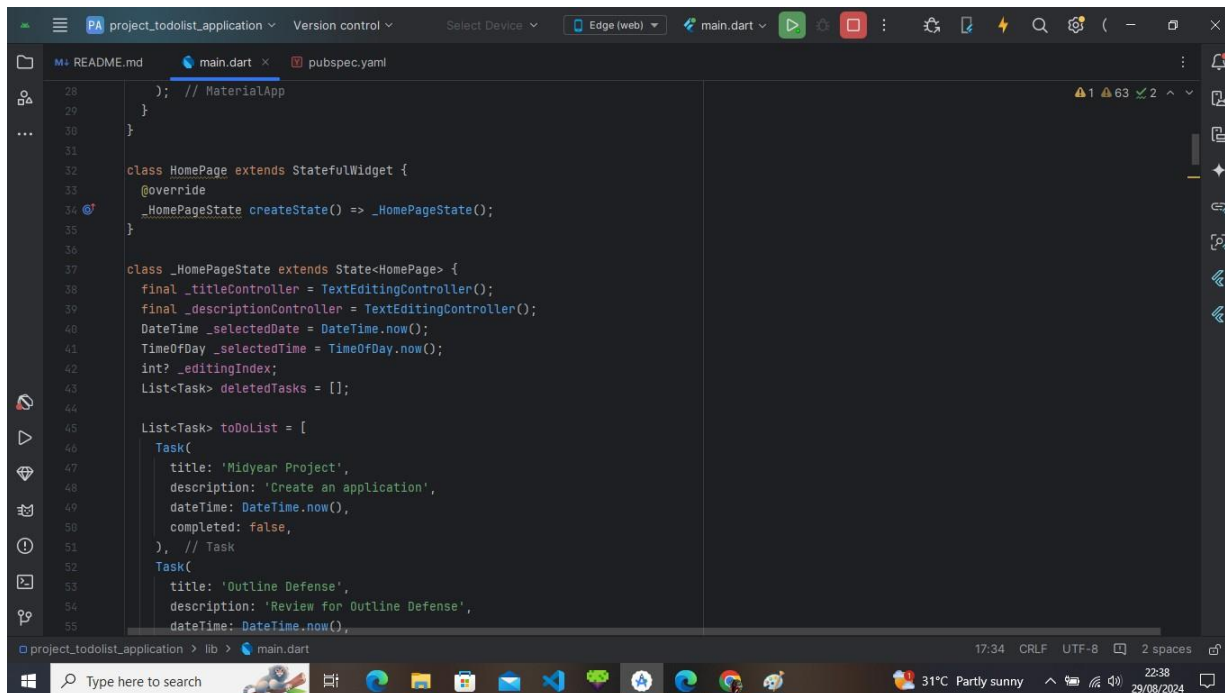
Use-Case:



Source Code:



```
1 import 'package:flutter/material.dart';
2 import 'package:intl/intl.dart';
3 import 'package:flutter_slidable/flutter_slidable.dart';
4
5 void main() {
6   runApp(MyApp());
7 }
8
9 class MyApp extends StatelessWidget {
10   @override
11   Widget build(BuildContext context) {
12     return MaterialApp(
13       title: 'To-Do List Application',
14       theme: ThemeData(
15         primarySwatch: Colors.deepPurple,
16         scaffoldBackgroundColor: Colors.purple.shade100,
17         appBarTheme: AppBarTheme(
18           backgroundColor: Colors.deepPurple,
19         ), // AppBarTheme
20         textTheme: TextTheme(
21           bodyLarge: TextStyle(fontSize: 16),
22         ), // TextTheme
23         buttonTheme: ButtonThemeData(
24           padding: EdgeInsets.symmetric(vertical: 12, horizontal: 16),
25         ), // ButtonThemeData
26       ), // ThemeData
27       home: HomePage(),
28     ); // MaterialApp
```



```
28 ); // MaterialApp
29 }
30
31 class HomePage extends StatefulWidget {
32   @override
33   _HomePageState createState() => _HomePageState();
34 }
35
36 class _HomePageState extends State<HomePage> {
37   final _titleController = TextEditingController();
38   final _descriptionController = TextEditingController();
39   DateTime _selectedDate = DateTime.now();
40   TimeOfDay _selectedTime = TimeOfDay.now();
41   int? _editingIndex;
42   List<Task> deletedTasks = [];
43
44   List<Task> toDoList = [
45     Task(
46       title: 'Midyear Project',
47       description: 'Create an application',
48       dateTime: DateTime.now(),
49       completed: false,
50     ), // Task
51     Task(
52       title: 'Outline Defense',
53       description: 'Review for Outline Defense',
54       dateTime: DateTime.now(),
55     ), // Task
```

```
project_todoist_application Version control Select Device Edge (web) main.dart  
M+ README.md main.dart pubspec.yaml  
55     dateTime: DateTime.now(),  
56     completed: true,  
57   ), // Task  
58   Task(  
59     title: 'Examination',  
60     description: 'Review for written examination',  
61     dateTime: DateTime.now(),  
62     completed: false,  
63   ), // Task  
64 ];  
65  
66 void _showTaskDialog([int? index]) {  
67   final isEditing = index != null;  
68   final task = isEditing ? todoList[index!] : null;  
69  
70   if (isEditing) {  
71     _titleController.text = task!.title;  
72     _descriptionController.text = task.description;  
73     _selectedDate = task.dateTime;  
74     _selectedTime = TimeOfDay(hour: task.dateTime.hour, minute: task.dateTime.minute);  
75     _editingIndex = index;  
76   } else {  
77     _titleController.clear();  
78     _descriptionController.clear();  
79     _selectedDate = DateTime.now();  
80     _selectedTime = TimeOfDay.now();  
81     _editingIndex = null;  
82   }  
83 }  
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```


The image shows a screenshot of an IDE, likely Visual Studio Code, with a project named 'project_todoist_application'. The main editor window displays a Dart file named 'main.dart'. The code is a Flutter widget function that returns a Column widget. It contains a TextField with a date picker and an ElevatedButton that triggers the date picker. The code is as follows:

```
border: OutlineInputBorder(),
contentPadding: EdgeInsets.symmetric(horizontal: 12, vertical: 8),
), // InputDecoration
maxLines: 3,
), // TextField
SizeBox(height: 12),
Row(
  mainAxisAlignment: MainAxisAlignment.spaceBetween,
  children: [
    Expanded(
      child: Text(
        'Date: ${DateFormat('yyyy-MM-dd').format(_selectedDate)}',
        style: TextStyle(fontSize: 16),
      ), // Text
    ), // Expanded
    SizeBox(width: 8),
    ElevatedButton(
      onPressed: () async {
        DateTime? pickedDate = await showDatePicker(
          context: context,
          initialDate: _selectedDate,
          firstDate: DateTime(2000),
          lastDate: DateTime(2101),
        );
        if (pickedDate != null) {
          setState() {
            _selectedDate = pickedDate;
          }
        }
      },
    ),
  ],
),
```

The IDE interface shows the project structure on the left, the code editor in the center, and a terminal at the bottom. The status bar at the bottom indicates the file is 'project_todoist_application > lib > main.dart', with '17:34', 'CRLF', 'UTF-8', and '2 spaces'.

The image shows a screenshot of a Visual Studio Code editor window. The top bar indicates the project is 'project_todolist_application' and the current file is 'main.dart'. The editor displays Dart code for a StatefulWidget. The code includes a _selectedDate variable, a build method, and various widget calls like Text, ElevatedButton, Row, Expanded, and SizedBox. The status bar at the bottom shows the file path 'project_todolist_application > lib > main.dart', the time '16:40', and system information like 'CRLF', 'UTF-8', and '2 spaces'. The taskbar at the very bottom shows various application icons and the system clock '08:05 31/08/2024'.

The screenshot shows an IDE window with a project named 'project_todolist_application'. The main file being edited is 'main.dart'. The code defines a StatefulWidget with a Scaffold containing a Column. Inside the Column, there is a Row with a Text widget and an ElevatedButton. The ElevatedButton has an onPressed function that calls showTimePicker to select a time, updates the state, and then updates the Text widget. The Text widget displays the selected time in a white font on a deep purple background. The code is as follows:

```
165 ElevatedButton(  
166   onPressed: () async {  
167     TimeOfDay? pickedTime = await showTimePicker(  
168       context: context,  
169       initialTime: _selectedTime,  
170     );  
171     if (pickedTime != null) {  
172       setState(() {  
173         _selectedTime = pickedTime;  
174       });  
175     }  
176   },  
177   child: Text(  
178     'Select Time',  
179     style: TextStyle(  
180       color: Colors.white70,  
181     ), // TextStyle  
182   ), // Text  
183   style: ElevatedButton.styleFrom(  
184     backgroundColor: Colors.deepPurple,  
185   ),  
186 ), // ElevatedButton  
187 ],  
188 ), // Row  
189 ],  
190 ), // Column  
191 ), // Padding  
192 // SingleChildScrollView
```

The IDE interface includes a sidebar with file explorer, a top bar with project and file tabs, and a bottom status bar showing the current file path, time, and system status.

```
project_todolist_application > Version control ~ Select Device ~ Edge (web) ~ main.dart ~  
M+ README.md main.dart pubspec.yaml  
192 ), // SingleChildScrollView  
193 actions: [  
194   TextButton(  
195     onPressed: () {  
196       Navigator.of(context).pop();  
197     },  
198     child: Text('Cancel', style: TextStyle(color: Colors.deepPurple)),  
199   ), // TextButton  
200   ElevatedButton(  
201     onPressed: () {  
202       if (_titleController.text.isNotEmpty && _descriptionController.text.isNotEmpty) {  
203         setState(() {  
204           if (_editingIndex != null) {  
205             toDoList[_editingIndex!] = Task(  
206               title: _titleController.text,  
207               description: _descriptionController.text,  
208               dateTime: DateTime(_selectedDate.year, _selectedDate.month, _selectedDate.day, _selectedTime.hour, _selectedTime.minute),  
209               completed: toDoList[_editingIndex!].completed,  
210             ); // Task  
211           } else {  
212             toDoList.add(Task(  
213               title: _titleController.text,  
214               description: _descriptionController.text,  
215               dateTime: DateTime(_selectedDate.year, _selectedDate.month, _selectedDate.day, _selectedTime.hour, _selectedTime.minute),  
216               completed: false,  
217             )); // Task  
218           }  
219         });  
220       }  
221     },  
222     child: Text('Add Task'),  
223   ),  
224 ],  
225 ), // Scaffold  
226 ), // MaterialApp  
227 ), // runApp  
228 )
```

```
project_todolist_application  master  Select Device  Edge (web)  main.dart  164:40 CRLF UTF-8 2 spaces 08:07 31/08/2024

M: README.md  main.dart  pubspec.yaml

219 Navigator.of(context).pop();
220 });
221 }
222 },
223 child: Text(isEditing ? 'Update' : 'Add',
224 style: TextStyle(
225 color: Colors.white70,
226 ), // TextStyle
227 ), // Text
228
229 style: ElevatedButton.styleFrom(
230 backgroundColor: Colors.deepPurple,
231 ),
232 ), // ElevatedButton
233 1,
234 ), // AlertDialog
235 );
236 }
237
238 void _checkBoxChanged(int index) {
239 setState(() {
240 toDoList[index].completed = !toDoList[index].completed;
241 });
242 }
243
244 void _deleteTask(int index) {
245 setState(() {
246 deletedTasks.add(toDoList[index]);
247 toDoList.removeAt(index);
248 });
249 }
250
251 void _showTaskDetails(Task task) {
252 showDialog(
253 context: context,
254 builder: (context) => AlertDialog(
255 title: Text(
256 task.title,
257 style: TextStyle(
258 fontSize: 22,
259 fontWeight: FontWeight.bold,
260 ), // TextStyle
261 ), // Text
262 content: SingleChildScrollView(
263 child: Padding(
264 padding: const EdgeInsets.all(10.0),
265 child: Column(
266 mainAxisAlignment: MainAxisAlignment.min,
267 children: [
268 Card(
269 elevation: 5,
270 margin: EdgeInsets.symmetric(vertical: 8)
271 )
272 ]
273 ),
274 ),
275 ),
276 );
277 }
```

```
project_todolist_application  Version control  Select Device  Edge (web)  main.dart  17:34 CRLF UTF-8 2 spaces 22:40 29/08/2024

M: README.md  main.dart  pubspec.yaml

243
244 void _deleteTask(int index) {
245 setState(() {
246 deletedTasks.add(toDoList[index]);
247 toDoList.removeAt(index);
248 });
249 }
250
251 void _showTaskDetails(Task task) {
252 showDialog(
253 context: context,
254 builder: (context) => AlertDialog(
255 title: Text(
256 task.title,
257 style: TextStyle(
258 fontSize: 22,
259 fontWeight: FontWeight.bold,
260 ), // TextStyle
261 ), // Text
262 content: SingleChildScrollView(
263 child: Padding(
264 padding: const EdgeInsets.all(10.0),
265 child: Column(
266 mainAxisAlignment: MainAxisAlignment.min,
267 children: [
268 Card(
269 elevation: 5,
270 margin: EdgeInsets.symmetric(vertical: 8)
271 )
272 ]
273 ),
274 ),
275 ),
276 );
277 }
```

```
project_todolist_application Version control Select Device Edge (web) main.dart pubspec.yaml

M+ README.md main.dart x pubspec.yaml

270 margin: EdgeInsets.symmetric(vertical: 8),
271 child: ListTile(
272   leading: Icon(Icons.description, color: Colors.deepPurple),
273   title: Text('Description'),
274   subtitle: Text(task.description, style: TextStyle(fontSize: 16)),
275 ), // ListTile
276 ), // Card
277 Card(
278   elevation: 5,
279   margin: EdgeInsets.symmetric(vertical: 8),
280   child: ListTile(
281     leading: Icon(Icons.calendar_today, color: Colors.deepPurple),
282     title: Text('Date'),
283     subtitle: Text(DateFormat('yyyy-MM-dd').format(task.dateTime), style: TextStyle(fontSize: 16)),
284   ), // ListTile
285 ), // Card
286 Card(
287   elevation: 5,
288   margin: EdgeInsets.symmetric(vertical: 8),
289   child: ListTile(
290     leading: Icon(Icons.access_time, color: Colors.deepPurple),
291     title: Text('Time'),
292     subtitle: Text(_formatTime(TimeOfDay(hour: task.dateTime.hour, minute: task.dateTime.minute)), style: TextStyle(fontSize: 16)),
293   ), // ListTile
294 ), // Card
295 ],
296 ), // Column
297 // Padding
```

```
project_todolist_application master Select Device Edge (web) main.dart pubspec.yaml

M+ README.md main.dart x pubspec.yaml

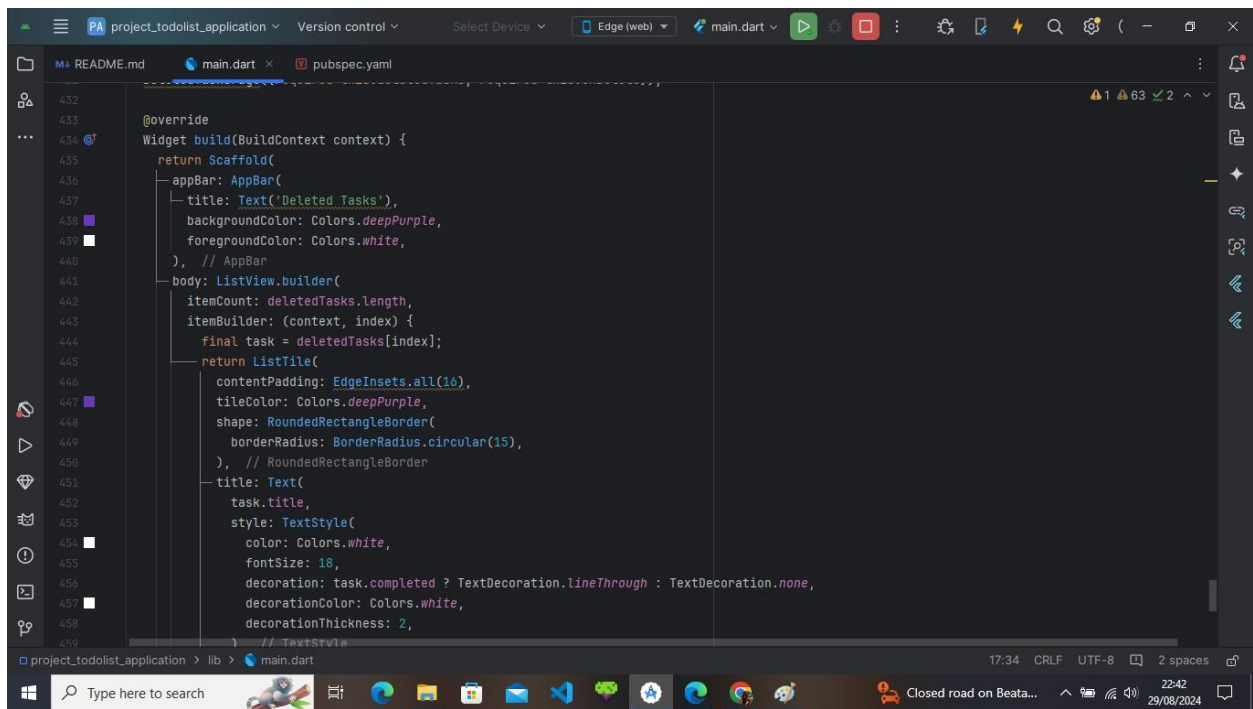
297 ), // Padding
298 ), // SingleChildScrollView
299 actions: [
300   TextButton(
301     onPressed: () {
302       Navigator.of(context).pop();
303     },
304     child: Text('Close', style: TextStyle(color: Colors.deepPurple)),
305   ), // TextButton
306 ],
307 ), // AlertDialog
308 );
309 }
310
311
312
313 String _formatTime(TimeOfDay time) {
314   final now = DateTime.now();
315   final dateTime = DateTime(now.year, now.month, now.day, time.hour, time.minute);
316   return DateFormat.jm().format(dateTime);
317 }
318
319
320 @override
321 Widget build(BuildContext context) {
322   return Scaffold(
323     appBar: AppBar(
324       title: Text('ToDo List'),
325       backgroundColor: Colors.deepPurple,
326     ),
327   );
328 }
```

```
project_todolist_application master Select Device Edge (web) main.dart  
M: README.md main.dart pubspec.yaml  
324 backgroundColor: Colors.deepPurple,  
325 foregroundColor: Colors.white,  
326 ), // AppBar  
327 drawer: Drawer(  
328   child: ListView(  
329     padding: EdgeInsets.zero,  
330     children: [  
331       DrawerHeader(  
332         decoration: BoxDecoration(  
333           color: Colors.deepPurple,  
334         ), // BoxDecoration  
335         child: Text(  
336           'NoteIT',  
337           style: TextStyle(color: Colors.white, fontSize: 24),  
338         ), // Text  
339       ), // DrawerHeader  
340       ListTile(  
341         leading: Icon(Icons.delete, color: Colors.deepPurple),  
342         title: Text('Trash'),  
343         onTap: () {  
344           Navigator.of(context).pop();  
345           Navigator.of(context).push(  
346             MaterialPageRoute(  
347               builder: (context) => DeletedTasksPage(  
348                 deletedTasks: deletedTasks,  
349                 onDelete: (index) {  
350                   setState() {  
351                     deletedTasks.removeAt(index);  
352                   }  
353                 },  
354               ), // DeletedTasksPage  
355             ), // MaterialPageRoute  
356           );  
357         },  
358       ), // ListTile  
359     ],  
360   ), // ListView  
361 ), // Drawer  
362 body: LayoutBuilder(  
363   builder: (context, constraints) {  
364     return ListView.builder(  
365       itemCount: todoList.length,  
366       itemBuilder: (context, index) {  
367         final task = todoList[index];  
368         return Padding(  
369           padding: const EdgeInsets.symmetric(vertical: 10, horizontal: 20),  
370           child: Slidable(  
371             endActionPane: ActionPane(  
372               motion: StretchMotion(),  
373               children: [  
374                 SlidableAction(  
375                   onPressed: (context) => _deleteTask(index),  
376                   icon: Icons.delete,  
377                   backgroundColor: Colors.red,  
378                   borderRadius: BorderRadius.circular(15)  
379                 ),  
380               ],  
381             ),  
382             child: ListTile(  
383               title: Text(task.title),  
384               subtitle: Text(task.description),  
385               leading: Icon(Icons.task_alt, color: Colors.deepPurple),  
386             ),  
387           ),  
388         );  
389       },  
390     ),  
391   ),  
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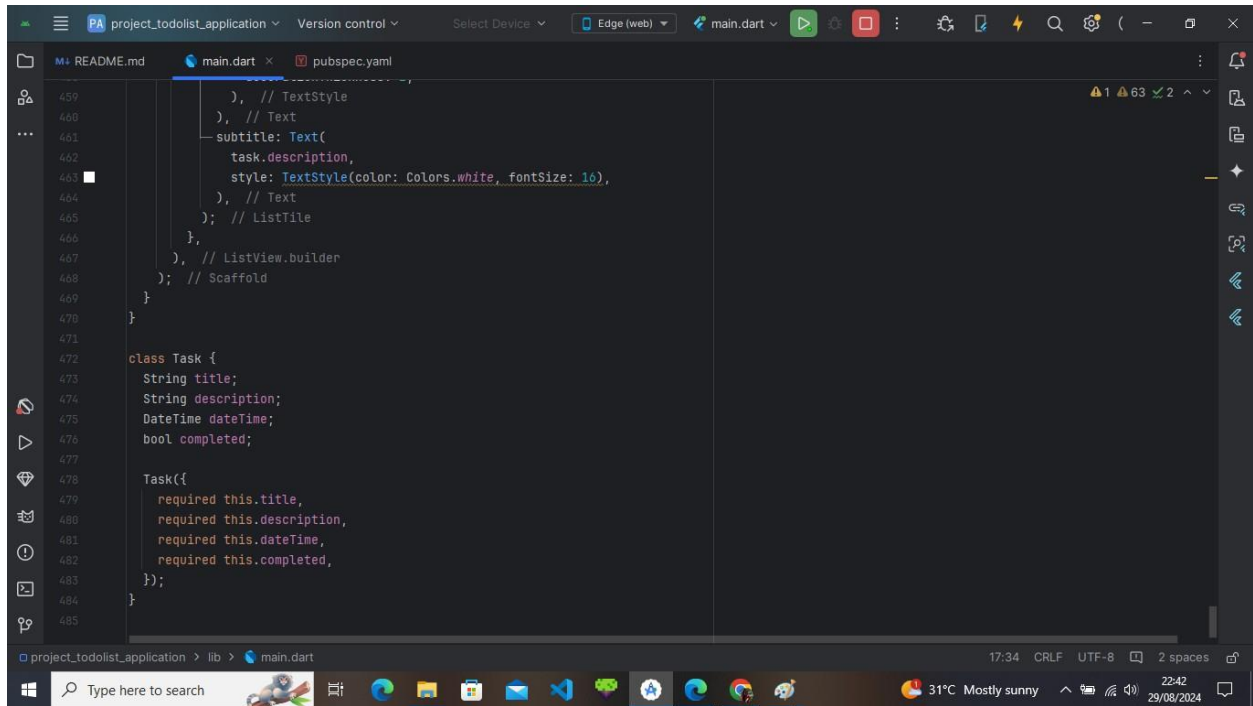
```
project_todolist_application Version control Select Device Edge (web) main.dart  
M: README.md main.dart pubspec.yaml  
351 deletedTasks.removeAt(index);  
352 });  
353 },  
354 ), // DeletedTasksPage  
355 ), // MaterialPageRoute  
356 );  
357 },  
358 ), // ListTile  
359 ],  
360 ), // ListView  
361 ), // Drawer  
362 body: LayoutBuilder(  
363   builder: (context, constraints) {  
364     return ListView.builder(  
365       itemCount: todoList.length,  
366       itemBuilder: (context, index) {  
367         final task = todoList[index];  
368         return Padding(  
369           padding: const EdgeInsets.symmetric(vertical: 10, horizontal: 20),  
370           child: Slidable(  
371             endActionPane: ActionPane(  
372               motion: StretchMotion(),  
373               children: [  
374                 SlidableAction(  
375                   onPressed: (context) => _deleteTask(index),  
376                   icon: Icons.delete,  
377                   backgroundColor: Colors.red,  
378                   borderRadius: BorderRadius.circular(15)  
379                 ),  
380               ],  
381             ),  
382             child: ListTile(  
383               title: Text(task.title),  
384               subtitle: Text(task.description),  
385               leading: Icon(Icons.task_alt, color: Colors.deepPurple),  
386             ),  
387           ),  
388         );  
389       },  
390     ),  
391   ),  
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378      borderRadius: BorderRadius.circular(15),
379    ), // SlidableAction
380  ],
381 ), // ActionPane
382 child: ListTile(
383   contentPadding: EdgeInsets.all(16),
384   tileColor: Colors.deepPurple,
385   shape: RoundedRectangleBorder(
386     borderRadius: BorderRadius.circular(15),
387   ), // RoundedRectangleBorder
388   leading: Checkbox(
389     value: task.completed,
390     onChanged: (value) => _checkboxChanged(index),
391     checkColor: Colors.black,
392     activeColor: Colors.white,
393     side: const BorderSide(
394       color: Colors.white,
395     ), // BorderSide
396   ), // Checkbox
397   title: Text(
398     task.title,
399     style: TextStyle(
400       color: Colors.white,
401       fontSize: 18,
402       decoration: task.completed ? TextDecoration.lineThrough : TextDecoration.none,
403       decorationColor: Colors.white,
404       decorationThickness: 2,
405     ), // TextStyle
```

```
405   ), // TextStyle
406   ), // Text
407   trailing: IconButton(
408     icon: Icon(Icons.edit, color: Colors.white),
409     onPressed: () => _showTaskDialog(index),
410   ), // IconButton
411   onTap: () => _showTaskDetails(task),
412 ), // ListTile
413 ), // Slidable
414 ); // Padding
415 },
416 ); // ListView.builder
417 },
418 ), // LayoutBuilder
419 floatingActionButton: FloatingActionButton(
420   onPressed: () => _showTaskDialog(),
421   child: Icon(Icons.add),
422 ), // FloatingActionButton
423 ); // Scaffold
424 }
425 }
426
427 class DeletedTasksPage extends StatelessWidget {
428   final List<Task> deletedTasks;
429   final Function(int) onDelete;
430
431   DeletedTasksPage({required this.deletedTasks, required this.onDelete});
432 }
```

```
432
433
434 @override
435 Widget build(BuildContext context) {
436   return Scaffold(
437     appBar: AppBar(
438       title: Text('Deleted Tasks'),
439       backgroundColor: Colors.deepPurple,
440       foregroundColor: Colors.white,
441     ), // AppBar
442     body: ListView.builder(
443       itemCount: deletedTasks.length,
444       itemBuilder: (context, index) {
445         final task = deletedTasks[index];
446         return ListTile(
447           contentPadding: EdgeInsets.all(16),
448           title: Text(
449             task.title,
450             style: TextStyle(
451               color: Colors.white,
452               fontSize: 18,
453               decoration: task.completed ? TextDecoration.lineThrough : TextDecoration.none,
454               decorationColor: Colors.white,
455               decorationThickness: 2,
456             ), // TextStyle
457           subtitle: Text(
458             task.description,
459             style: TextStyle(color: Colors.white, fontSize: 16),
460           ), // Text
461         ); // ListTile
462       }, // ListView.builder
463     ); // Scaffold
464   }
465 }
466
467 class Task {
468   String title;
469   String description;
470   DateTime dateTime;
471   bool completed;
472
473   Task({
474     required this.title,
475     required this.description,
476     required this.dateTime,
477     required this.completed,
478   });
479 }
```



```
459
460
461 ), // TextStyle
462 ), // Text
463 subtitle: Text(
464   task.description,
465   style: TextStyle(color: Colors.white, fontSize: 16),
466 ), // Text
467 ); // ListTile
468 }, // ListView.builder
469 ); // Scaffold
470 }
471
472 class Task {
473   String title;
474   String description;
475   DateTime dateTime;
476   bool completed;
477
478   Task({
479     required this.title,
480     required this.description,
481     required this.dateTime,
482     required this.completed,
483   });
484 }
485 }
```