

Calendar Application with Add Event

1. Add dependency in pubspec.yaml

```
29 dependencies:
30   flutter:
31     sdk: flutter
32
33
34   # The following adds the Cupertino Icons font to your application.
35   # Use with the CupertinoIcons class for iOS style icons.
36   cupertino_icons: ^1.0.2
37   table_calendar: ^3.0.0
```

2. Create calender.dart file

```
1  import 'package:calendar_event/event.dart';
2  import 'package:flutter/material.dart';
3  import 'package:table_calendar/table_calendar.dart';
4
5  class Calendar extends StatefulWidget {
6    @override
7    _CalendarState createState() => _CalendarState();
8  }
9
10 class _CalendarState extends State<Calendar> {
11   Map<DateTime, List<Event>> selectedEvents;
12   CalendarFormat format = CalendarFormat.month;
13   DateTime selectedDay = DateTime.now();
14   DateTime focusedDay = DateTime.now();
15
16   TextEditingController _eventController = TextEditingController();
17
18   @override
19   void initState() {
20     selectedEvents = {};
21     super.initState();
22   }
23 }
```

```

24 List<Event> _getEventsfromDay(DateTime date) {
25   return selectedEvents[date] ?? [];
26 }
27
28 @override
29 void dispose() {
30   _eventController.dispose();
31   super.dispose();
32 }
33
34 @override
35 Widget build(BuildContext context) {
36   return Scaffold(
37     appBar: AppBar(
38       title: Text("Calendar Event"),
39       centerTitle: true,
40     ), // AppBar
41     body: Column(
42       children: [
43         TableCalendar(
44           focusedDay: selectedDay,
45           firstDay: DateTime(1990),
46           lastDay: DateTime(2050),
47           calendarFormat: format,
48           onFormatChanged: (CalendarFormat _format) {
49             setState(() {
50               format = _format;
51             });
52           },
53           startingDayOfWeek: StartingDayOfWeek.sunday,
54           daysOfWeekVisible: true,
55
56           //Day Changed
57           onDaySelected: (DateTime selectDay, DateTime focusDay) {
58             setState(() {
59               selectedDay = selectDay;
60               focusedDay = focusDay;
61             });
62             print(focusedDay);
63           },
64           selectedDayPredicate: (DateTime date) {
65             return isSameDay(selectedDay, date);
66           },

```

lib > calendar.dart > ...

```
68     eventLoader: _getEventsfromDay,
69
70     //To style the Calendar
71     calendarStyle: CalendarStyle(
72       isTodayHighlighted: true,
73       selectedDecoration: BoxDecoration(
74         color: Colors.blue,
75         shape: BoxShape.rectangle,
76         borderRadius: BorderRadius.circular(5.0),
77       ), // BoxDecoration
78       selectedTextStyle: TextStyle(color: Colors.white),
79       todayDecoration: BoxDecoration(
80         color: Colors.purpleAccent,
81         shape: BoxShape.rectangle,
82         borderRadius: BorderRadius.circular(5.0),
83       ), // BoxDecoration
84       defaultDecoration: BoxDecoration(
85         shape: BoxShape.rectangle,
86         borderRadius: BorderRadius.circular(5.0),
87       ), // BoxDecoration
88       weekendDecoration: BoxDecoration(
89         shape: BoxShape.rectangle,
90         borderRadius: BorderRadius.circular(5.0),
```

```
94       formatButtonVisible: true,
95       titleCentered: true,
96       formatButtonShowsNext: false,
97       formatButtonDecoration: BoxDecoration(
98         color: Colors.blue,
99         borderRadius: BorderRadius.circular(5.0),
100       ), // BoxDecoration
101       formatButtonTextStyle: TextStyle(
102         color: Colors.white,
103       ), // TextStyle
104     ), // HeaderStyle
105   ), // TableCalendar
106   ..._getEventsfromDay(selectedDay).map(
107     (Event event) => ListTile(
108       title: Text(
109         event.title,
110       ), // Text
111     ), // ListTile
112   ),
113 ],
114 ), // Column
115 floatingActionButton: FloatingActionButton.extended(
116   onPressed: () => showDialog(
```

```

lib > calendar.dart > ...
115     floatingActionButton: FloatingActionButton.extended(
116       onPressed: () => showDialog(
117         context: context,
118         builder: (context) => AlertDialog(
119           title: Text("Add Event"),
120           content: TextFormField(
121             controller: _eventController,
122           ), // TextFormField
123           actions: [
124             TextButton(
125               child: Text("Cancel"),
126               onPressed: () => Navigator.pop(context),
127             ), // TextButton
128             TextButton(
129               child: Text("Ok"),
130               onPressed: () {
131                 if (_eventController.text.isEmpty) {
132                 } else {
133                   if (selectedEvents[selectedDay] != null) {
134                     selectedEvents[selectedDay].add(
135                       Event(title: _eventController.text),
136                     );
137                   } else {
138                     selectedEvents[selectedDay] = [
139                       Event(title: _eventController.text)
140                     ];
141                   }
142                 }
143                 Navigator.pop(context);
144                 _eventController.clear();
145                 setState(() {});
146                 return;
147             },
148           ), // TextButton
149         ],
150       ), // AlertDialog
151     ),
152     label: Text("Add Event"),
153     icon: Icon(Icons.add),
154   ), // FloatingActionButton.extended
155 ); // Scaffold
156 }
157 }
158

```

3. Create event.dart file

```

lib > event.dart > Event
1  import 'package:flutter/foundation.dart';
2
3  class Event {
4      final String title;
5      Event({@required this.title});
6      String toString() => this.title;
7  }
8

```

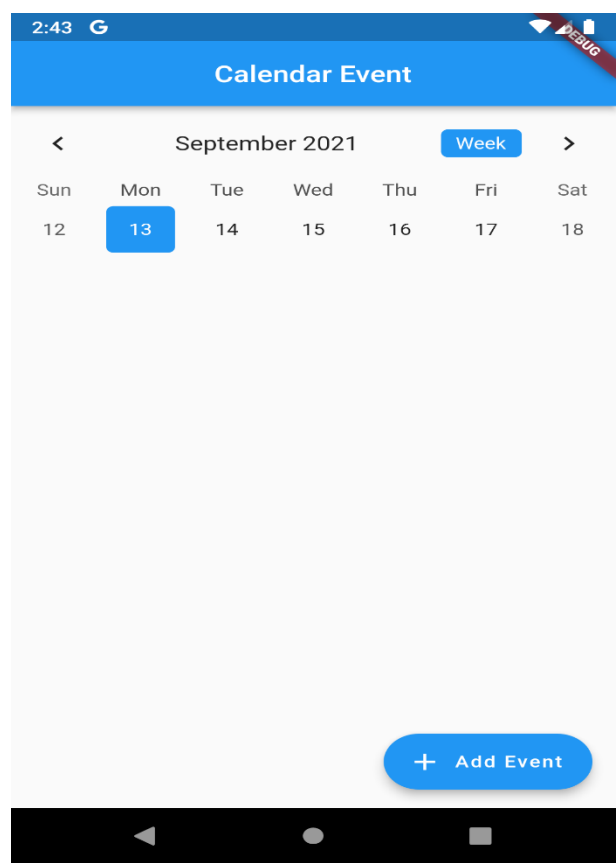
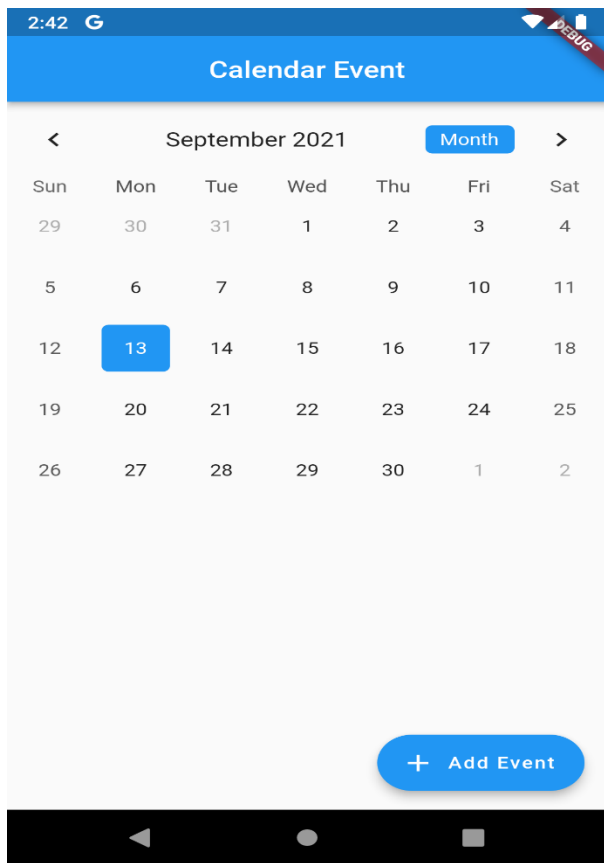
4. In main.dart file

```

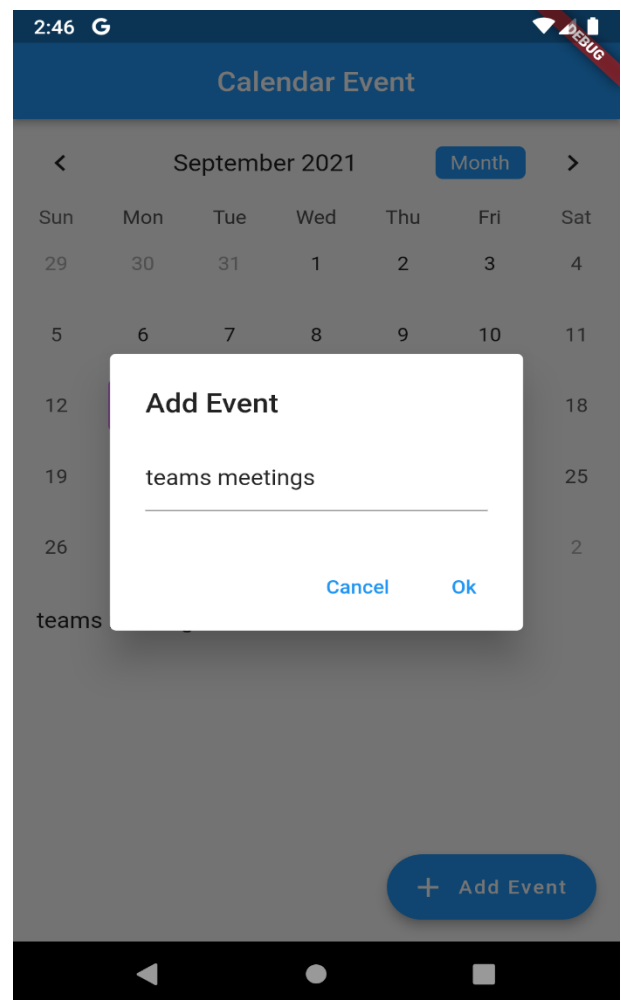
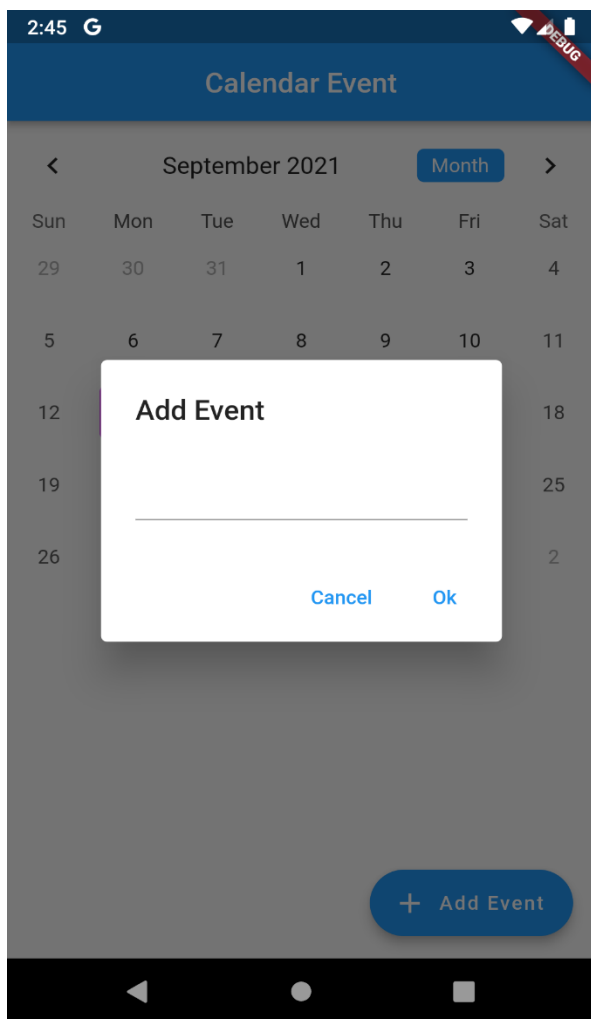
lib > main.dart > MyApp > build
1  import 'package:flutter/material.dart';
2  import 'package:calendar_event/calendar.dart';
3
4  Run | Debug | Profile
5  void main() {
6      runApp(MyApp());
7  }
8
9  class MyApp extends StatelessWidget {
10     @override
11     Widget build(BuildContext context) {
12         return MaterialApp(
13             title: 'Calendar Event',
14             home: Calendar(),
15         ); // MaterialApp
16     }
17 }

```

Output:



With Events



Calendar Event

<	September 2021					Month	>
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
29	30	31	1	2	3	4	
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	1	2	

teams meetings

+ Add Event