Student ID



ITT626: BACK-END TECHNOLOGY

Semester March 2022 - August 2022

BACK-END TECHNOLOGY Case Study Report: Task Management System

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1.0 Project Background

In today's fast-paced and ever-changing business environment, it's essential to have a tool that helps individuals and teams manage their tasks efficiently and effectively. With the increasing demand for productivity, many companies and individuals are looking for a comprehensive solution to manage their daily tasks and projects. A task management application offers a centralised platform where users can create, prioritise, assign, and track their tasks, helping them to stay organised and on top of their workload. The need for a task management application has become even more pronounced in the wake of the COVID-19 pandemic, as many people are now working from home and need a way to stay connected and organised with their teams. With remote work becoming the new norm, a task management app that allows for collaboration and communication is crucial. The goal of this task management application is to provide a user-friendly and intuitive platform that streamlines task management, improves collaboration, and increases productivity. The application will allow users to create tasks, set due dates, assign tasks to team members, and track progress in real-time. Users will also be able to communicate and collaborate with each other within the app, making it easier to stay connected and informed, even when working remotely. This task management app will be designed to be flexible and customizable, so that it can be adapted to the specific needs of different teams and organisations. Whether it's for personal use or for managing a team, this application will provide users with the tools they need to get their tasks done on time and with ease. In conclusion, the task management app will provide a comprehensive solution for managing tasks and projects, streamlining workflow, improving communication and collaboration, and ultimately increasing productivity.

2.0 Module for System

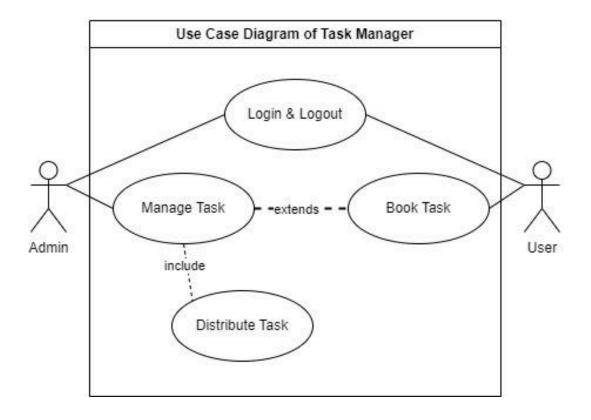
There are two types of modules in the system which is:

1. Admin Module

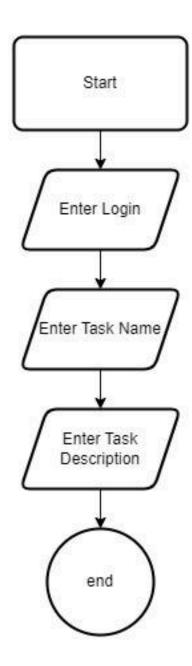
For the user module, the users are able to enter tasks name and description to the database to be reviewed by the admin. The Users are also able to delete the requests of tasks to cancel any task prompted.

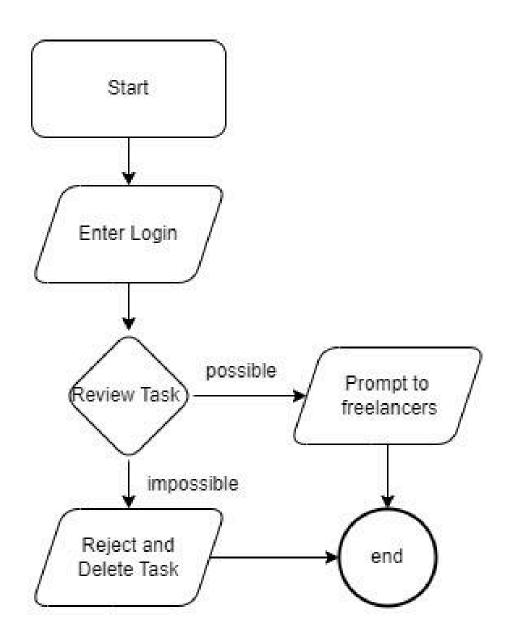
For the admin module in the system, admin can do several types of activities such as create and delete tasks

3.0 Use Case Diagram

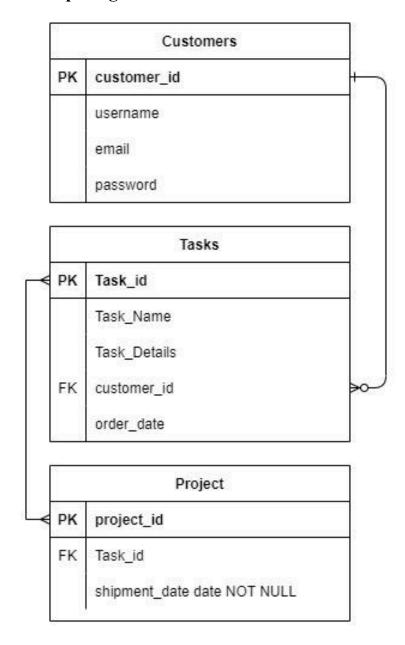


4.0 Flowchart Diagram





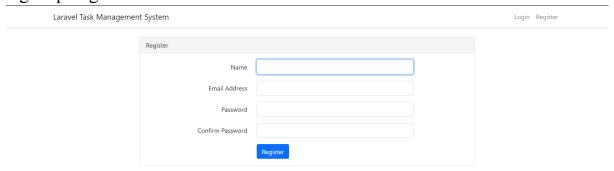
5.0 Entity Relationship Diagram



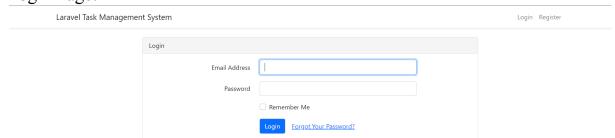
6.0 User Interface

LARAVEL:

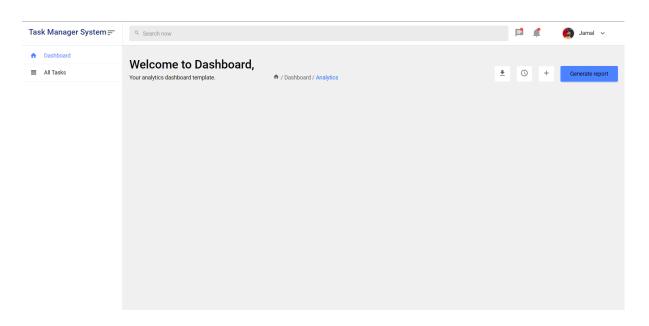
Sign Up Page:



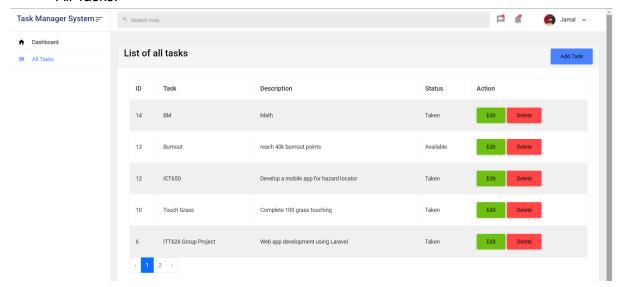
Login Page:



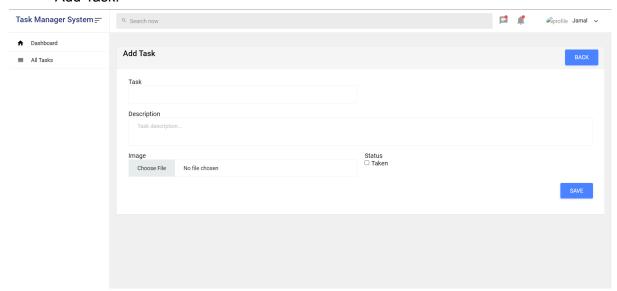
Dashboard:



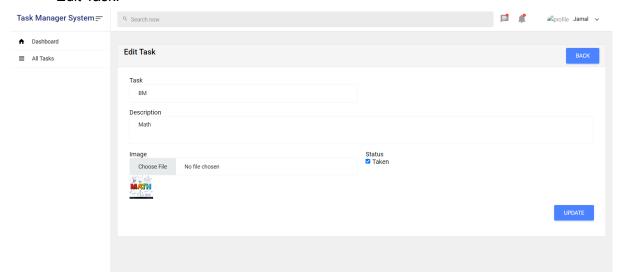
All Tasks:



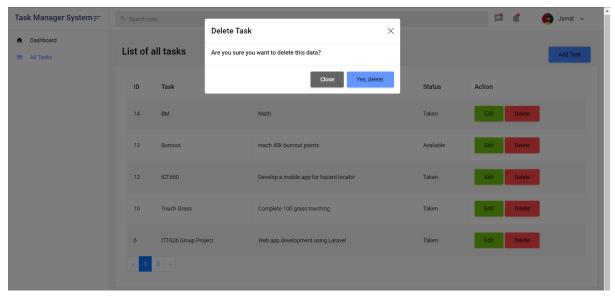
Add Task:



Edit Task:

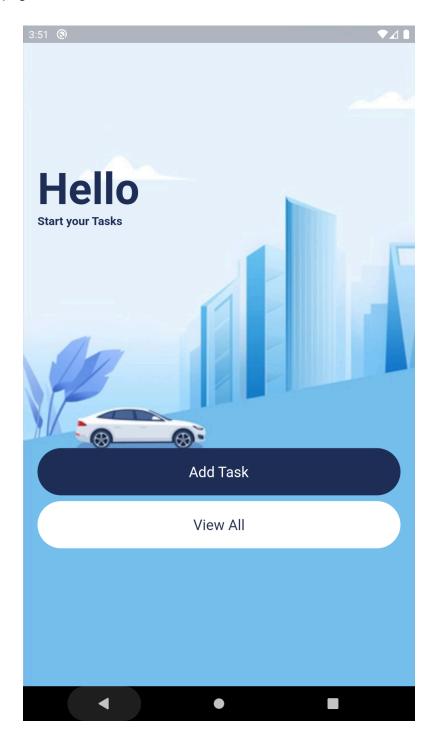


Delete Task:

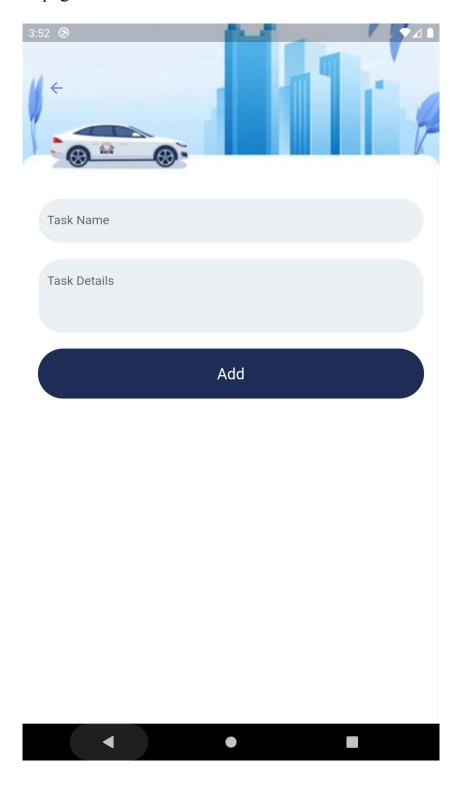


FLUTTER:

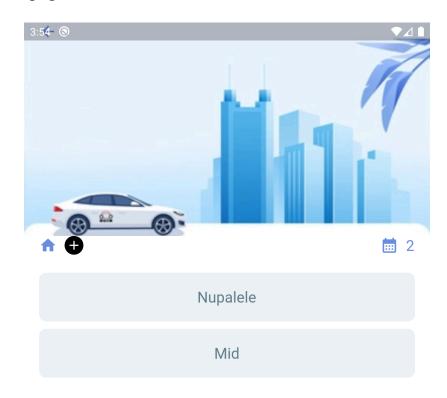
Home page:



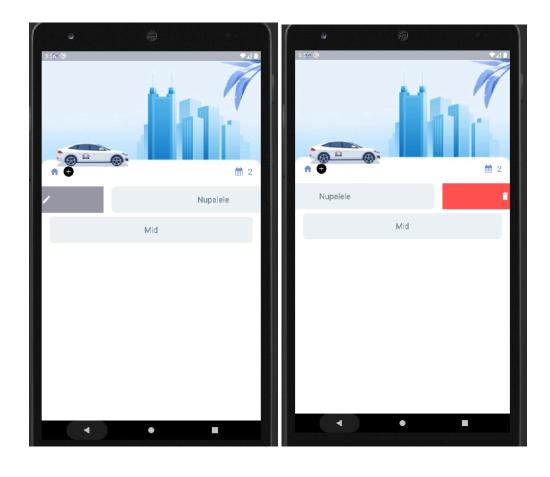
Add task page:



All task page



Delete and edit task function:



7.0 Appendix

SOURCE CODE FOR LARAVEL

https://github.com/zainul-byte/task management system

FLUTTER CODE

HOME PAGE

```
alltasks.dart
                 add_task.dart

♠ Homepage.dart ×

                                                        home_screen.dart
mobileapp1 > lib > screens > ♠ Homepage.dart > ♣ _HomescreenState > ♠ build
       import 'dart:convert';
  2
       import 'package:flutter/material.dart';
  3
       import 'package:mobileapp1/app_colors.dart';
       import 'package:mobileapp1/screens/alltasks.dart';
       import 'package:mobileapp1/widgets/button widget.dart';
       import 'package:get/get.dart';
       import 'add_task.dart';
  9
 10
       class Homescreen extends StatefulWidget {
 11
 12
         const Homescreen({super.key});
 13
 14
         @override
 15
         State<Homescreen> createState() => _HomescreenState();
 16
 17
 18
       class HomescreenState extends State<Homescreen> {
 19
         @override
         Widget build(BuildContext context) {
 20
 21
           return Scaffold(
 22
             body: Container(
               width: double.maxFinite,
 23
               height: double.infinity,
 24
               padding: const EdgeInsets.only(left: 20, right: 20),
 25
               decoration: const BoxDecoration(
 26
 27
                   image: DecorationImage(
                        image: AssetImage("assets/welcome.jpg"), fit: BoxFit.cover
 28
                        ) // DecorationImage
 29
                       ), // BoxDecoration
 30
               child: Column(
 31
                 mainAxisAlignment: MainAxisAlignment.center,
 32
                 crossAxisAlignment: CrossAxisAlignment.start,
 33
 34
                 children: [
                   RichText(
 35
 36
                        text: TextSpan(
                            text: "Hello",
 37
```

```
add task.dart

♠ Homepage.dart X

                                                         • home_screen.dart
alltasks.dart
mobileapp1 > lib > screens > ● Homepage.dart > ♀ _HomescreenState > ♦ build
                            text. nerro ,
                            style: TextStyle(
 38
                                 color: AppColors.mainColor,
 39
                                 fontSize: 60,
 40
                                fontWeight: FontWeight.bold), // TextStyle
 41
 42
                            children: [
                          TextSpan(
 43
                              text: "\nStart your Tasks",
 44
                              style: TextStyle(
 45
                                   color: AppColors.mainColor,
 46
                                   fontSize: 16,
 47
 48
                                   fontWeight: FontWeight.bold
                                   ) // TextStyle
 49
                                   ) // TextSpan
 50
                        ])), // TextSpan // RichText
 51
                    SizedBox(
 52
 53
                      height: MediaQuery.of(context).size.height / 3,
 54
                    ), // SizedBox
                    InkWell(
 55
 56
                      onTap: () {
 57
                        Get.to(() => AddTask(),
                            transition: Transition.fade,
 58
 59
                            duration: Duration(seconds: 1));
 60
                      },
                      child: ButtonWidget(
 61
                          bgcolor: AppColors.mainColor,
 62
                          text: "Add Task",
 63
                          textColor: □Colors.white), // ButtonWidget
 64
                    ), // InkWell
 65
                     const SizedBox(
 66
                      height: 8,
 67
                    ), // SizedBox
 68
 69
                    InkWell( onTap: () {
                        Get.to(() => AllTasks(),
 70
                            transition: Transition.fade,
 71
 72
                            duration: Duration(seconds: 1));
 73
```

```
child: ButtonWidget(
74
75
                       bgcolor: □Colors.white,
                       text: "View All",
76
77
                       textColor: AppColors.smallTextColor), // ButtonWidget
                 ) // InkWell
78
               ],
79
            ), // Column
80
81
          ), // Container
         ); // Scaffold
83
84
85
```

MAIN ROUTES

```
alltasks.dart

    main.dart ×

                 • home_screen.dart
mobileapp1 > lib > 🦠 main.dart
       import 'package:flutter/material.dart';
       import 'package:mobileapp1/screens/Homepage.dart';
       import 'package:mobileapp1/screens/add_task.dart';
  3
  4
       import 'package:mobileapp1/screens/alltasks.dart';
  5
       import 'package:get/get.dart';
  6
       void main() {
  7
         runApp(const MyApp());
  8
  9
 10
       class MyApp extends StatelessWidget {
 11
         const MyApp({super.key});
 12
 13
         // This widget is the root of your application.
 14
         @override
 15
         Widget build(BuildContext context) {
 16
 17
           return GetMaterialApp(
 18
             debugShowCheckedModeBanner: false,
             title: 'Flutter Nupa',
 19
 20
             theme: ThemeData(
             primarySwatch: Colors.blue,
 21
 22
             home: const Homescreen(),
 23
 24
           );
 25
 26
```

ALL TASK LIST PAGE

```
alltasks.dart X
                 main.dart
mobileapp1 > lib > screens > ● alltasks.dart > ...
       import 'package:flutter/material.dart';
       mport 'package:mobileapp1/app colors.dart';
  2
       import 'package:mobileapp1/widgets/button widget.dart';
  3
  4
       import 'package:mobileapp1/widgets/task widget.dart';
  5
       class AllTasks extends StatelessWidget {
  6
  7
         const AllTasks({super.key});
  8
  9
         @override
         Widget build(BuildContext context) {
 10
           List myData = ["Nupalele", "Mid"];
 11
 12
           final leftEditIcon = Container(
             margin: const EdgeInsets.only(bottom: 10),
 13
             color: ■const Color(0xFF2e3253).withOpacity(0.5),
 14
 15
             //withOpacity(0.5),
  16
             child: const Icon(
 17
               Icons.edit,
               color: □Colors.white,
 18
             ), // Icon
 19
             alignment: Alignment.centerLeft,
 20
           ); // Container
 21
 22
           final rightDeleteIcon = Container(
             margin: const EdgeInsets.only(bottom: 10),
 23
             color: ■Colors.redAccent,
 24
 25
             child: const Icon(
               Icons.delete,
26
               color: □Colors.white,
 27
             ), // Icon
 28
             alignment: Alignment.centerRight,
 29
           ); // Container
  30
           return Scaffold(
 31
 32
               backgroundColor: □Colors.white,
               body: Column(
 33
                 children: [
  34
  35
                   Container(
                      padding: const EdgeInsets.only(left: 20, right: 20),
  36
                      alignment: Alignment.topLeft,
 37
```

```
alltasks.dart X
 mobileapp1 > lib > screens > 🦠 alltasks.dart > ધ AllTasks > 🌣 build
                   children: [
  35
                     Container(
                       padding: const EdgeInsets.only(left: 20, right: 20),
  36
  37
                       alignment: Alignment.topLeft,
                       child: Icon(
  38
← 39
                         Icons.arrow back,
                         color: AppColors.secColor,
  40
                       ), // Icon
  41
                       width: double.maxFinite,
  42
                       height: MediaQuery.of(context).size.height / 3.2,
  43
                       decoration: const BoxDecoration(
  44
                           image: DecorationImage(
  45
  46
                               fit: BoxFit.cover,
                               image: AssetImage("assets/header1.jpg")
  47
                               ) // DecorationImage
  48
  49
                               ), // BoxDecoration
                     ), // Container
  50
                     Container(
  51
                       padding: const EdgeInsets.only(left: 20, right: 20),
  52
                       child: Row(children: [
  53
  54
                         Icon(
★ 55
                           Icons.home,
                           color: AppColors.secColor,
  56
  57
                         ), // Icon
  58
                         const SizedBox(
                           width: 10,
  59
                         ), // SizedBox
  60
                         Container(
  61
                           child: const Icon(
  62
+ 63
                             Icons.add,
  64
                             color: □Colors.white,
  65
                             size: 20,
                           ), // Icon
  66
  67
                           width: 25,
                           height: 25,
  68
  69
                           decoration: BoxDecoration(
  70
                               borderRadius: BorderRadius.circular(12.5),
```

```
alltasks.dart X
 mobileapp1 > lib > screens > ● alltasks.dart > ← AllTasks > ← build
                           decoration: BoxDecoration(
   70
                               borderRadius: BorderRadius.circular(12.5),
                               color: ■Colors.black), // BoxDecoration
   71
                         ), // Container
   72
   73
                         Expanded(child: Container()),
                         Icon(
   74
= 75
                           Icons.calendar month sharp,
                           color: AppColors.secColor,
   76
                         ), // Icon
   77
   78
                         const SizedBox(
   79
                           width: 10,
                         ), // SizedBox
   80
                         Text(
   81
                           "2",
   82
   83
                           style: TextStyle(
                             fontSize: 20,
   84
                             color: AppColors.secColor,
   85
                           ), // TextStyle
   86
                         ) // Text
   87
   88
                       ]), // Row
                     ), // Container
   89
                     Flexible(
   90
                       child: ListView.builder(
   91
                         itemCount: myData.length,
   92
   93
                         itemBuilder: (context, index) {
   94
                           return Dismissible(
   95
                             background: leftEditIcon,
                             secondaryBackground: rightDeleteIcon,
   96
                             onDismissed: (DismissDirection direction) {
   97
                               print("after dismiss");
   98
  99
```

showBottomSheet(

context: context,

100

101

102

103

104

105

confirmDismiss: (DismissDirection direction) async {

if (direction == DismissDirection.startToEnd) {

//BarrierColor: Colors.transparent,

backgroundColor: □Colors.transparent,

```
alltasks.dart X
mobileapp1 > lib > screens > ● alltasks.dart > ♣ AllTasks > ♦ build
                                    context: context,
105
                                    builder: (_) {
106
107
                                      return Container(
108
                                        height: 550,
109
                                        decoration: BoxDecoration(
                                            color: ■const Color(0xFF2e3253)
110
111
                                                .withOpacity(0.5),
                                            borderRadius: const BorderRadius.only(
112
113
                                                topRight: Radius.circular(20),
114
                                                topLeft: Radius.circular(20)
                                                ) // BorderRadius.only
115
                                                ), // BoxDecoration
116
117
                                        child: Padding(
118
                                            padding: const EdgeInsets.only(
119
                                                left: 20, right: 20), // EdgeInsets.only
120
                                            child: Column(
121
                                              mainAxisAlignment:
                                                  MainAxisAlignment.center,
122
                                              children: [
123
124
                                                ButtonWidget(
                                                    bgcolor: AppColors.mainColor,
125
126
                                                    text: "View",
127
                                                    textColor: □Colors.white), // ButtonWidget
128
                                                const SizedBox(
129
                                                 height: 20,
                                                ), // SizedBox
130
                                                ButtonWidget(
131
                                                    bgcolor: AppColors.mainColor,
132
                                                    text: "Edit",
133
                                                    textColor: □Colors.white) // ButtonWidget
134
135
                                              ],
                                            )), // Column // Padding
136
                                      ); // Container
137
138
                                    });
139
                               return false;
140
                               else {
                               return Future.delayed(const Duration(seconds: 1),
141
```

```
alltasks.dart X
mobileapp1 > lib > screens > ● alltasks.dart > � AllTasks
135
                                              ],
                                            )), // Column // Padding
136
137
                                     ); // Container
138
                                   });
139
                               return false;
140
                             } else {
                               return Future.delayed(const Duration(seconds: 1),
141
142
                                   () => direction == DismissDirection.endToStart
143
                                   ); // Future.delayed
144
145
                           key: ObjectKey(index),
146
147
                           child: Container(
                               margin: const EdgeInsets.only(
148
                                   left: 20, right: 20, bottom: 10), // EdgeInsets.only
149
150
                                child: TaskWidget(
                                    text: myData[index], color: ■Colors.blueGrey
151
152
                                    ) // TaskWidget
                                   ), // Container
153
                         ); // Dismissible
154
155
                     ), // ListView.builder
156
157
                   ) // Flexible
158
               )); // Column // Scaffold
159
160
161
```

ADD TASK PAGE

```
alltasks.dart
                 add_task.dart X
mobileapp1 > lib > screens > ◆ add_task.dart > ♣ AddTask > ♦ build
       import 'package:flutter/material.dart';
  2
       import 'package:mobileapp1/app_colors.dart';
       import 'package:mobileapp1/widgets/button widget.dart';
  3
       import 'package:mobileapp1/widgets/textfield widget.dart';
       import 'package:get/get.dart';
       class AddTask extends StatelessWidget {
  8
         const AddTask({super.key});
  9
         @override
 10
 11
         Widget build(BuildContext context) {
           TextEditingController nameController = TextEditingController();
 12
 13
           TextEditingController detailController = TextEditingController();
           return Scaffold(
 14
             body: Container(
 15
               width: double.maxFinite,
 16
               height: double.maxFinite,
 17
               padding: const EdgeInsets.only(right: 20, left: 20),
 18
               decoration: const BoxDecoration(
 19
 20
                   image: DecorationImage(
                       fit: BoxFit.cover, image: AssetImage("assets/addtask1.jpg")
 21
 22
                       ) // DecorationImage
 23
                       ), // BoxDecoration
 24
               child: Column(
 25
                 crossAxisAlignment: CrossAxisAlignment.start,
                 mainAxisAlignment: MainAxisAlignment.spaceBetween,
 26
                 children: [
 27
                   Column(children: [
 28
                     const SizedBox(
 29
 30
                       height: 60,
                     ), // SizedBox
 31
                     IconButton(
 32
 33
                         onPressed: () {
 34
                          Get.back();
 35
                         },
                         icon: Icon(
 36
37
                           Icons.arrow_back,
```

```
add task.dart X
 alltasks.dart
 mobileapp1 > lib > screens > ● add_task.dart > ← AddTask > ← build
                           TCOU! TCOU(
  36
← 37
                             Icons.arrow_back,
  38
                             color: AppColors.secColor,
                           )) // Icon // IconButton
  39
                     ]), // Column
  40
  41
                     Column(
  42
                       children: [
                         Textfield Widget(
  43
                             textController: nameController, hintText: "Task Name"
  44
                             ), // Textfield Widget
  45
                         const SizedBox(
  46
  47
                           height: 20,
                         ), // SizedBox
  48
  49
                         Textfield_Widget(
                             textController: detailController,
  50
                             hintText: "Task Details",
  51
  52
                             borderRadius: 30,
                             maxLines: 3), // Textfield_Widget
  53
                         const SizedBox(
  54
  55
                           height: 20,
                         ), // SizedBox
  56
                         ButtonWidget(
  57
                             bgcolor: AppColors.mainColor,
  58
                             text: "Add",
  59
                             textColor: □Colors.white) // ButtonWidget
  60
  61
                       ],
                     ), // Column
  62
                     SizedBox(
  63
                       height: MediaQuery.of(context).size.height / 3,
  64
                     ) // SizedBox
  65
  66
                   ],
                ), // Column
  67
              ), // Container
  68
            ); // Scaffold
  69
  70
  71
  70
```