

# MINI PROJECT REPORT

On

## **“Optimal Hires”**

Submitted by

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### Declaration

We hereby declare that the work which is being presented in the MINI Project II “**OPTIMAL HIRES**”, in partial fulfillment of the requirements for MINI Project II viva voce, is an authentic record of our work carried out by the team members under the supervision of our mentor Mr. **Akash Kumar Choudhary**.

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Course: B.Tech (Computer Science and Engineering)

Year: 3<sup>rd</sup>

Semester: 6<sup>th</sup>

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**Certificate**

This is to certify that the above statements made by the candidates  
are correct to the best of my/our knowledge and belief.

\_\_\_\_\_  
Supervisor

**Mr. Akash Kumar Choudhary**

\_\_\_\_\_  
Project Coordinator

**(Mr. Akash Kumar Choudhary)**

\_\_\_\_\_  
Program Coordinator

**(Mr. Subhash Chand Agrawal)**

## **Acknowledgment**

We thank the almighty for giving us the courage and perseverance in completing the project. This project is an acknowledgment of all those who have given us their heartfelt cooperation in making this project a grand success. We extend our sincere thanks to Mr. Akash Kumar Choudhary, Technical Trainer at “GLA University, Mathura” for providing his valuable guidance at every stage of this project work. We are profoundly grateful for the unmatched services rendered by him. And finally, we would like to express our deep sense of gratitude and earnest thanks giving to our dear parents for their moral support and heartfelt cooperation in doing the main project.

## **Abstract**

The Flutter-based mobile application developed in this project aims to provide job-seeking candidates with comprehensive information about different companies, including their history, industry, location, and available job opportunities. The application's user-friendly interface allows candidates to quickly access the information they need, making the job search process easier and more efficient. The application's design uses Material Design principles to ensure consistency and ease of use. The use of Flutter and Material Design ensures a high-quality user experience, with a clean and modern design that is easy to navigate. The Project report provides a detailed description of the application's features, design, and technology used.

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## **INTRODUCTION**

In today's fast-paced world, finding a job has become a tough task, especially for freshers or candidates with less experience. The process of searching and applying for a job can be time-consuming and challenging. In this project report, we present an application Optimal Hires that provides information about companies to job-seeking candidates. The application is built using Flutter technology, which provides a great user interface and user experience. The application is designed to help job seekers find the right job by providing information about companies, job openings, and job requirements. Front end of the system is developed with the help of flutter which uses dart language. Back end and Database management of this system will be done with the help of Firebase database.

## **SOFTWARE AND HARDWARE REQUIREMENTS**

- Android Studio
- 8 GB RAM
- Window 8/10/11
- Processor : Intel i5/i7/i9
- Hard Disk: 500 GB



## **IMPLEMENTATION DETAILS**

### **PROJECT DESCRIPTION :-**

The purpose of this project is to give information to job-seeking aspirant about different companies. This application is based on flutter which uses dart as the programming language. You can look for different companies job requirement data. For example – if you want to know about a job position information as CTC , skills requirement etc.

### **Flutter :-**

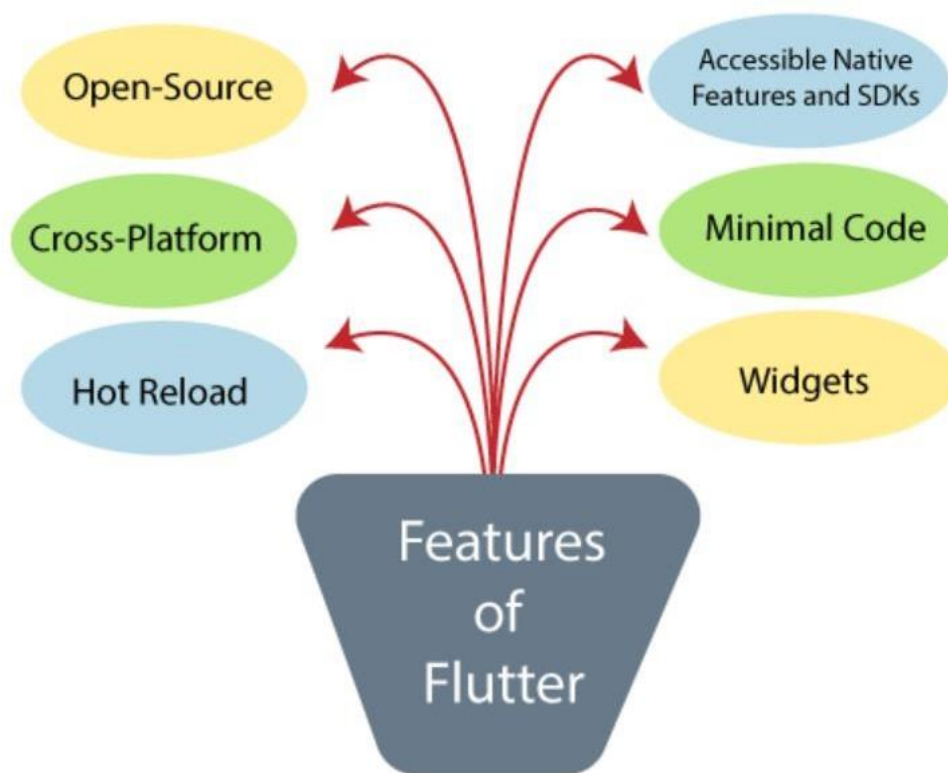
Flutter is a UI toolkit for building fast, beautiful, natively compiled applications for mobile, web, and desktop with one programming language and single codebase. It is free and open-source. Initially, it was developed from **Google** and now manages by an **ECMA standard**. Flutter apps use Dart programming language for creating an app.

The first version of Flutter was announced in the year **2015** at the Dart Developer Summit. It was initially known as codename **Sky** and can run on the Android OS. On **December 4, 2018**, the first stable version of the

Flutter framework was released, denoting Flutter 1.0. The current stable release of the framework is Flutter v1.9.1+hotfix.6 on October 24, 2019.

### **Features of Flutter :-**

Flutter gives easy and simple methods to start building beautiful mobile and desktop apps with a rich set of material design and widgets. Here, we are going to discuss its main features for developing the mobile framework.



## **Dart :-**

Dart is a general-purpose, high-level modern programming language which is originally developed by Google. It is the new programming language which is emerged in 2011, but its stable version was released in June 2017. Dart is not so popular at that time, but It gains popularity when it is used by the Flutter.

Dart is a dynamic, class-based, object-oriented programming language with closure and lexical scope. Syntactically, it is quite similar to [Java](#), [C](#), and JavaScript. If you know any of these programming languages, you can easily learn the Dart programming language.

Dart is an open-source programming language which is widely used to develop the mobile application, modern web-applications, desktop application, and the [Internet of Things](#) (IoT) using by Flutter framework. It also supports a few advance concepts such as interfaces, mixins, abstract classes, refield generics, and type interface. It is a compiled language and supports two types of compilation techniques.

## **About the Project**

The above project report is about a mobile application developed using the Flutter framework that provides information about companies to job-seeking candidates. The objective of this project is to create an application that will allow job-seeking candidates to access information about companies they are interested in working for. This information will help job seekers make informed decisions about whether to apply for a job at a particular company. The features of the application are designed to provide job seekers with a comprehensive view of the company, including its background, job openings, culture, and employee reviews.

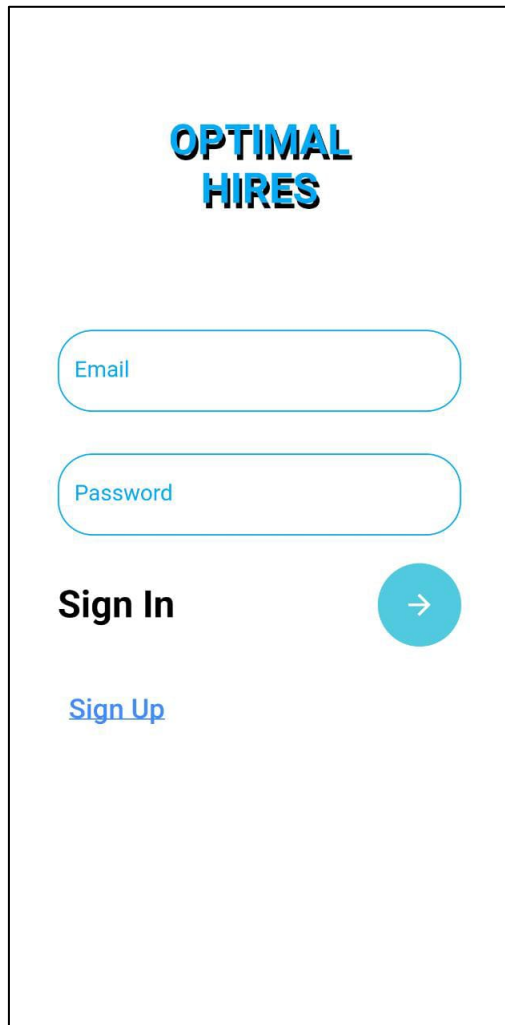
The technology stack used in this project includes the Flutter framework and Firebase. The Flutter framework is used for building the mobile application, while Firebase is used for user authentication, database management. In conclusion, this project is aimed at providing a user-friendly mobile application that will help job seekers make informed decisions about where to apply for a job. The application provides a wealth of information about companies, and its intuitive design and easy navigation make it easy for users to find the information they need. The technology stack used in this project ensures that the application is fast, reliable, and secure, and will provide users with a seamless experience.

## **Motivation**

The motivation behind the above project is to address the challenge faced by job-seeking candidates when searching for information about companies they are interested in. Many job seekers find it difficult to get a comprehensive view of a company's background, culture, and job openings, which makes it hard for them to make informed decisions about whether to apply for a job at a particular company. This lack of information can be frustrating and time-consuming, as job seekers may need to do extensive research and reach out to contacts to gather information about companies.

## List of UI

### LogIn Page:-



The login page features the 'OPTIMAL HIRES' logo at the top. Below it are two rounded rectangular input fields for 'Email' and 'Password'. At the bottom, there is a 'Sign In' button with a right-pointing arrow and a 'Sign Up' link.

**OPTIMAL  
HIRES**

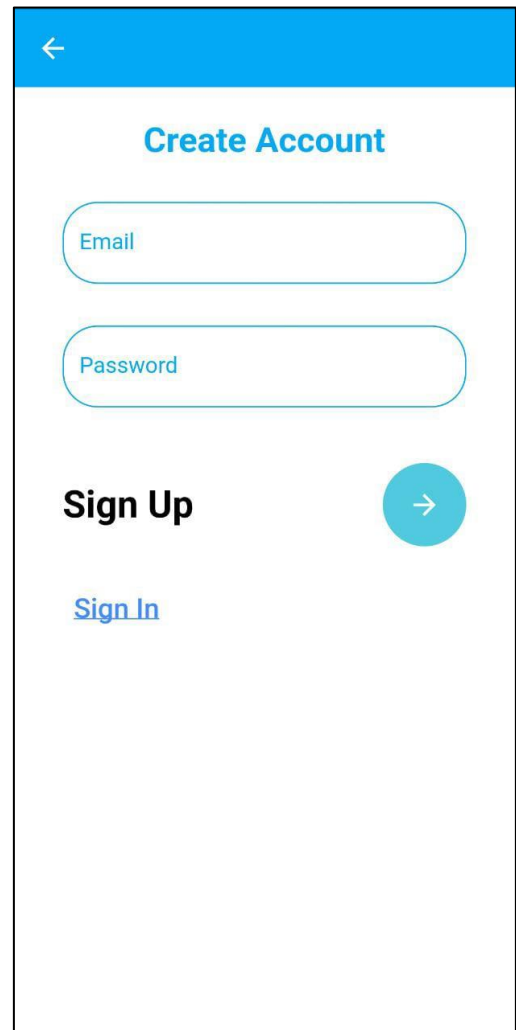
Email

Password

**Sign In** →

[Sign Up](#)

### Sign up Page :-



The sign up page has a blue header bar with a back arrow. The title 'Create Account' is centered. Below are two rounded rectangular input fields for 'Email' and 'Password'. At the bottom, there is a 'Sign Up' button with a right-pointing arrow and a 'Sign In' link.

←

**Create Account**







Email

Password





**Sign Up** →

[Sign In](#)


## Home Page :-

OPTIMAL HIRES	
	Gemini Solutions Pvt. Ltd.
<a href="#">Previous Year Questions</a>	<a href="#">View</a>
	Lg Soft India Private Limited
<a href="#">Previous Year Questions</a>	<a href="#">View</a>
	Juspay Technologies Pvt. Ltd.
<a href="#">Previous Year Questions</a>	<a href="#">View</a>
	Expand My Business Exmyb
<a href="#">Previous Year Questions</a>	<a href="#">View</a>
	Equirus Group
<a href="#">Previous Year Questions</a>	<a href="#">View</a>
	Opus Studio Inc, Japan

## Navigation Bar :-

OPTIMAL HIRES	
	Quiz
	Contact us
	About
	Log out

## Company Data page :-

 Gemini Solutions Pvt. Ltd.

Industry Type  
IT

Approx. Working Employee  
300

Estd. Year  
2007

Company Criteria :  
Throughout 70% in 10th, 12th and B.Tech  
with No backlog

Salary :  
CTC/Package : 720000 - 800000 Rs./  
Annum

Bond :  
24 Months

Key Skills Required :  
DBMS, Data Structure, Web  
Technologies, Linux/Unix, Oops, Sdlc,  
Software Testing, Algorithm and  
Programming

Procedure  
Online Exam, Coding/Screening, Group  
Discussion, Technical Interview, PI

## Quiz page :-

Quiz

Question 1/30

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
QRSTUVWXYZ

Which letter is 8th to the end of  
seventh letter from the right?

o

A

L

C

Next



## Previous year questions Page:-

← Afford Medical Technologies...

Spot an error

1. (A)There were /(B)no less than fifty persons / (C)present in the room /(D) No error.

2. (A)Few remarks/ (B)that he made were /(C)offensive to my friend/ (D)No error.

3. (A)In the opinion of everyone/ (B)she is more wise/ (C)than beautiful/ (D)No error.

Choose the Correct Sentence

1. Let he go to the office immediately

(a) let him go by the office immediately.

(b) let him go to the office immediately.

(c) let he go in the office immediately.

(d) let him go into the office immediately.

2. It is always prudent to (lay out) some money for unforeseen expenses.

(a) lay back

(b) lay over

(c) lay off

(d) lay aside

Study the following information carefully and answer the questions given below:

Five prsons are sitting around dining table.- K,L,M,N and O  
-K is the mother of M,who is the wife of O. N is the brother of K andL is the husband of K.

1. How is K related to O?

(a) Sister

(b) Mother

(c) Mother in law

(d) Brother in law

2. How is M related to L?

## Quiz end page :-

Quiz

Question 30/30

A sum becomes 84% more in 7 years when invested at simple interest. Find the annual rate of interest?

Passed | Score is 23

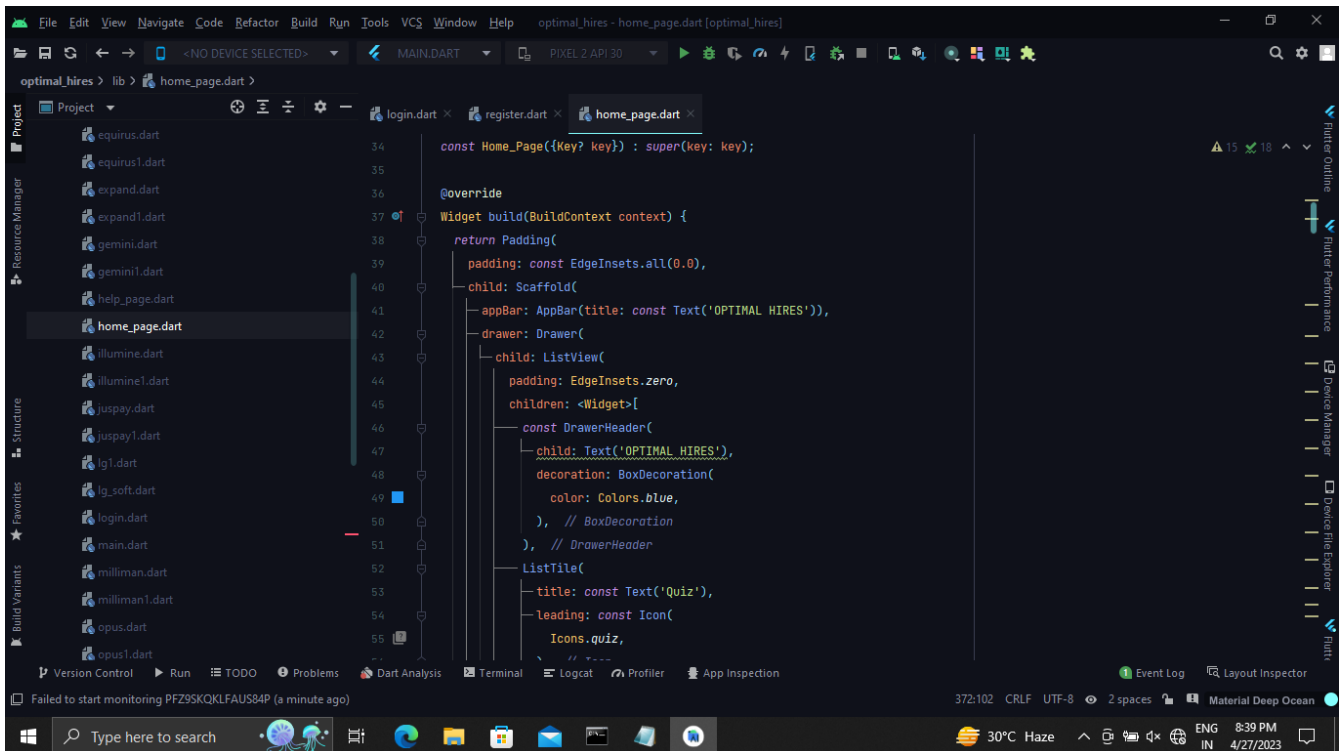
Restart

12 %

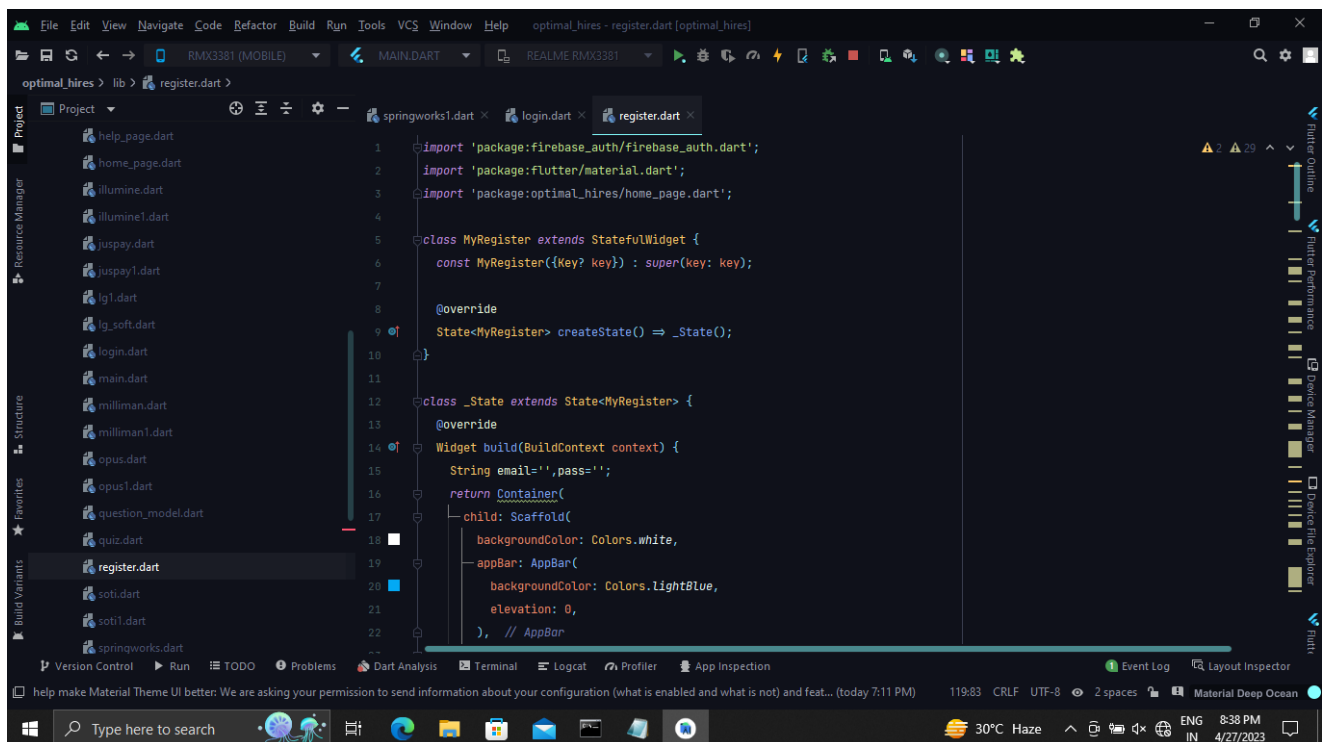
18 %

Submit

## Source Code Pages:-



```
optimal_hires - home_page.dart [optimal_hires]
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
<NO DEVICE SELECTED> MAIN.DART PIXEL 2 API 30
optimal_hires > lib > home_page.dart
Project
  equirus.dart
  equirus1.dart
  expand.dart
  expand1.dart
  gemini.dart
  gemini1.dart
  help_page.dart
  home_page.dart
  illumine.dart
  illumine1.dart
  juspay.dart
  juspay1.dart
  lg1.dart
  lg_soft.dart
  login.dart
  main.dart
  milliman.dart
  milliman1.dart
  opus.dart
  opus1.dart
Structure
  login.dart
  register.dart
  home_page.dart
34 const Home_Page({Key? key}) : super(key: key);
35
36 @override
37 Widget build(BuildContext context) {
38   return Padding(
39     padding: const EdgeInsets.all(0.0),
40     child: Scaffold(
41       appBar: AppBar(title: const Text('OPTIMAL HIRES')),
42       drawer: Drawer(
43         child: ListView(
44           padding: EdgeInsets.zero,
45           children: <Widget>[
46             const DrawerHeader(
47               child: Text('OPTIMAL HIRES'),
48               decoration: BoxDecoration(
49                 color: Colors.blue,
50               ), // BoxDecoration
51             ), // DrawerHeader
52             ListTile(
53               title: const Text('Quiz'),
54               leading: const Icon(
55                 Icons.quiz,
56               ),
57             ),
58           ],
59         ),
60       ),
61     ),
62   );
63 }
Flutter Outline
Flutter Performance
Device Manager
Device File Explorer
Flutter
Event Log
Layout Inspector
Failed to start monitoring PFZ9SKQKLF84US84P (a minute ago)
372-102 CRLF UTF-8 2 spaces Material Deep Ocean
Type here to search 30°C Haze 8:39 PM 4/27/2023
```



```
optimal_hires - register.dart [optimal_hires]
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help
RMX3381 (MOBILE) MAIN.DART REALME RMX3381
optimal_hires > lib > register.dart
Project
  help_page.dart
  home_page.dart
  illumine.dart
  illumine1.dart
  juspay.dart
  juspay1.dart
  lg1.dart
  lg_soft.dart
  login.dart
  main.dart
  milliman.dart
  milliman1.dart
  opus.dart
  opus1.dart
  question_model.dart
  quiz.dart
  register.dart
  soti.dart
  soti1.dart
  springworks.dart
Structure
  springworks1.dart
  login.dart
  register.dart
1 import 'package:firebase_auth/firebase_auth.dart';
2 import 'package:flutter/material.dart';
3 import 'package:optimal_hires/home_page.dart';
4
5 class MyRegister extends StatefulWidget {
6   const MyRegister({Key? key}) : super(key: key);
7
8   @override
9   State<MyRegister> createState() => _State();
10 }
11
12 class _State extends State<MyRegister> {
13   @override
14   Widget build(BuildContext context) {
15     String email='',pass='';
16     return Container(
17       child: Scaffold(
18         backgroundColor: Colors.white,
19         appBar: AppBar(
20           backgroundColor: Colors.lightBlue,
21           elevation: 0,
22         ), // AppBar
23       ),
24     );
25 }
Flutter Outline
Flutter Performance
Device Manager
Device File Explorer
Flutter
Event Log
Layout Inspector
help make Material Theme UI better: We are asking your permission to send information about your configuration (what is enabled and what is not) and fea... (today 7:11 PM)
119:03 CRLF UTF-8 2 spaces Material Deep Ocean
Type here to search 30°C Haze 8:38 PM 4/27/2023
```

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help optimal_hires - login.dart [optimal_hires]
optimal_hires > lib > login.dart >
Project
  help_page.dart
  home_page.dart
  illumine.dart
  illumine1.dart
  juspay.dart
  juspay1.dart
  lg1.dart
  lg_soft.dart
  login.dart
  main.dart
  milliman.dart
  milliman1.dart
  opus.dart
  opus1.dart
  question_model.dart
  quiz.dart
  register.dart
  soti.dart
  soti1.dart
  springworks1.dart
  springworks1.dart
  login.dart
  1 import 'package:firebase_auth/firebase_auth.dart';
  2 import 'package:flutter/material.dart';
  3 import 'package:optimal_hires/home_page.dart';
  4 import 'package:optimal_hires/register.dart';
  5
  6
  7 class MyLogin extends StatefulWidget {
  8   const MyLogin({Key? key}) : super(key: key);
  9
  10  @override
  11  State<MyLogin> createState() => _State();
  12 }
  13
  14 class _State extends State<MyLogin> {
  15   @override
  16   Widget build(BuildContext context) {
  17     String email='',pass='';
  18     return Container(
  19       child: Scaffold(
  20         backgroundColor: Colors.white,
  21         body: Stack(
  22           children: [
```

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help optimal_hires - quiz.dart [optimal_hires]
optimal_hires > lib > quiz.dart >
Project
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  lg_soft.dart
  login.dart
  main.dart
  milliman.dart
  milliman1.dart
  opus.dart
  opus1.dart
  question_model.dart
  quiz.dart
  register.dart
  soti.dart
  soti1.dart
  springworks1.dart
  springworks1.dart
  login.dart
  register.dart
  home_page.dart
  quiz.dart
  1 import 'package:flutter/material.dart';
  2 import 'package:optimal_hires/question_model.dart';
  3
  4 class QuizScreen extends StatefulWidget {
  5   @override
  6   State<QuizScreen> createState() => _QuizScreenState();
  7 }
  8
  9 class _QuizScreenState extends State<QuizScreen> {
  10   //define the data
  11   List<Question> questionList = getQuestions();
  12   int currentQuestionIndex = 0;
  13   int score = 0;
  14   Answer? selectedAnswer;
  15
  16   @override
  17   Widget build(BuildContext context) {
  18     return Scaffold(
  19       backgroundColor: const Color.fromARGB(255, 5, 50, 80),
  20       body: Container(
  21         margin: const EdgeInsets.symmetric(horizontal: 16, vertical: 32),
  22         child:
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## **Software Testing :-**

Once source code has been generated, software must be tested to uncover as many errors as possible before delivery. It is very important to work the system successfully and achieve high quality of software. Testing include designing at series of test cases that have a high likelihood of finding errors by applying software-testing techniques. System testing makes logical assumptions that if all the parts of the system are correct, the goal will be successfully achieved. The system should be checked logically. Validations and cross checks should be there. Avoid duplications of record that cause redundancy of data. In other Words, Testing is the process of evaluating a system or its component(s) with the intent to find whether it satisfies the specified requirements or not. It is executing a system in order to identify any gaps, errors, or missing requirements in contrary to the actual requirements.

The preliminary goal of implementation is to write source code and internal documentation so that conformance of the code to its specifications can be easily verified, and so that debugging, testing and modifications are eased. This goal can be achieved by making the source code as clear and straightforward as possible. Simplicity, clarity and elegance are the hallmark of good programs, obscurity, cleverness, and complexity are indications of inadequate design and misdirected thinking. Source code clarity is enhanced by structured coding techniques, by good coding style, by, appropriate supporting documents, by good internal comments, and by feature provided in modern programming languages. The implementation team should be provided with a well-defined set of software requirement .

## **REFERENCES**

- [www.w3school.com](http://www.w3school.com)
- [www.javatpoint.com](http://www.javatpoint.com)
- [www.projectdeveloper.com](http://www.projectdeveloper.com)
- [www.dart.dev](http://www.dart.dev)
- [www.tutorialspoint.com](http://www.tutorialspoint.com)
- [www.geeksforgeeks.org](http://www.geeksforgeeks.org)

## **Faculty Guidelines:**

Mr. Akash Kumar Choudhary (Technical Trainer in GLA University)

## **GitHub Repository link:**

<https://github.com/deepakparihar10/Optimal-Hires>