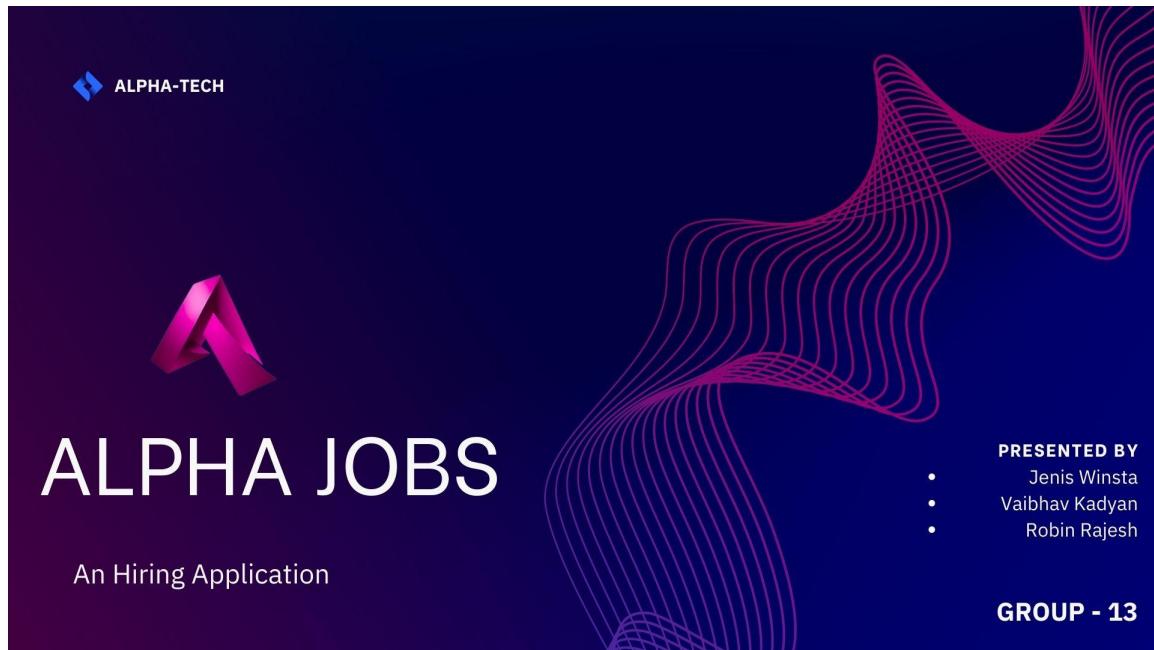


Software Engineering

SUBJECT CODE: SIT0401

INSTRUCTOR: Prof. Lydia Fernandes

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Title of Project: Alpha-Tech Hiring

Date: 28.02.2023

Group: 13

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Introduction

Alpha-Tech is an imaginary automation company that has its ground in the field of technology and machinery. Building Software empowered with AI and providing machinery to automobile industries which make it a company with over 2500+ users.

We decided to make an application that helps in hiring. So our app can be assessed by the users to check the vacancies if any, and apply for the posts and for the companies where they can post vacancies and check the applied candidates. So as a user, you have to login into the application and there you can check if there are any vacancies for the job, if there are any, the user can apply for it and also the user can check the application status for the applied job. For the admin side, the admin can post job vacancies, can see the applied candidates and their details, and can change the application status of the applied person.

Primary Reason to choose this particular topic:

There are several reasons why we choose to build a hiring app as a mobile application building project:

- 1. High Demand:** Hiring is an essential aspect of every organization, and with the growing use of smartphones and mobile devices, a hiring app can help companies streamline their recruitment process and make it more accessible and efficient.
- 2. Problem Solving:** A hiring app can help address common issues faced by companies during the recruitment process, such as a lack of organization, limited access to candidates, and manual paper-based processes.
- 3. Increased Productivity:** By automating many of the manual tasks associated with recruitment, a hiring app can help organizations

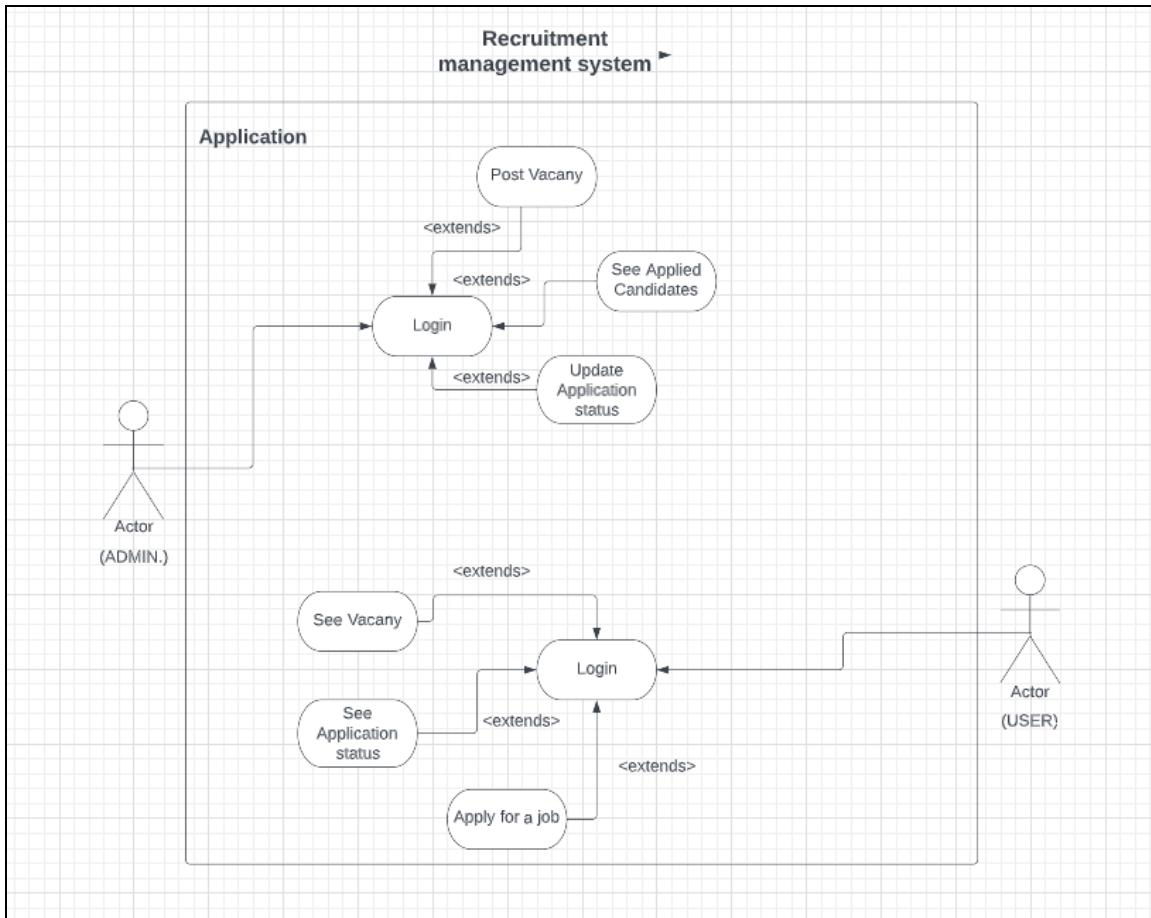
save time and increase productivity like the eligibility process of candidates.

4. **Improved Candidate Experience:** A mobile hiring app can provide a more convenient and user-friendly experience for job seekers, helping organizations to attract a larger pool of qualified candidates.
5. **Competitive Advantage:** With the increasing use of technology in the recruitment process, having a well-designed and user-friendly hiring app can give a company a competitive advantage over others who are still relying on traditional recruitment methods.

Main Objective of Project:

The main objective of our application is to streamline and improve the recruitment process for Alpha-Tech company. By automating many of the manual tasks associated with recruitment, such as application tracking, candidate screening, and scheduling interviews, our app can help save time and increase efficiency. Our app can provide a more convenient and user-friendly experience for job seekers, helping organizations to attract a larger pool of qualified candidates. Overall, the main objective of our app is to make the recruitment process more efficient, accessible, and effective for both companies and job seekers.

Diagram:



Scope of Project:

The scope of our app includes the following elements:

- 1. User Management:** Development of user authentication and authorization systems to ensure secure access to the app for both employers and job seekers.
- 2. Job Posting:** A feature for companies to post job listings and manage their job postings, including the ability to edit, delete, and archive them.
- 3. Applicant Tracking:** A system for tracking job applications, including the ability to screen resumes, track interview status, and make hiring decisions.
- 4. Communication:** A centralized platform for communication between employers, recruiters, and job seekers, allowing for more efficient and effective communication throughout the recruitment process.
- 5. Analytics and Reporting:** A system for tracking and analyzing key metrics, such as the number of job applications received, the sources of the best candidates, and the success rates of different recruitment methods.
- 6. Mobile Optimization:** Design and development of a user-friendly interface optimized for mobile devices, ensuring that the app is accessible and easy to use on both iOS and Android devices.
- 7. Technical Support and Maintenance:** Ongoing technical support and maintenance to ensure the app remains secure, up-to-date, and functioning as intended.

Process Model

The process model that we used for our project is Agile Scrum, as it is the fastest in terms of the development of a project. We conducted meetings on the 12th and 16th of December and discussed the idea of the application and divided the work among the group members. We conducted a meeting on 12th January and finalized the process model that we will use for the project. We decided to take weekly targets and discuss the progress every two days with the team members. This week we decided to make the login page and the user dashboard and will conduct meetings on g-meet to discuss the progress of the target that is set for this week.

Sprint -1

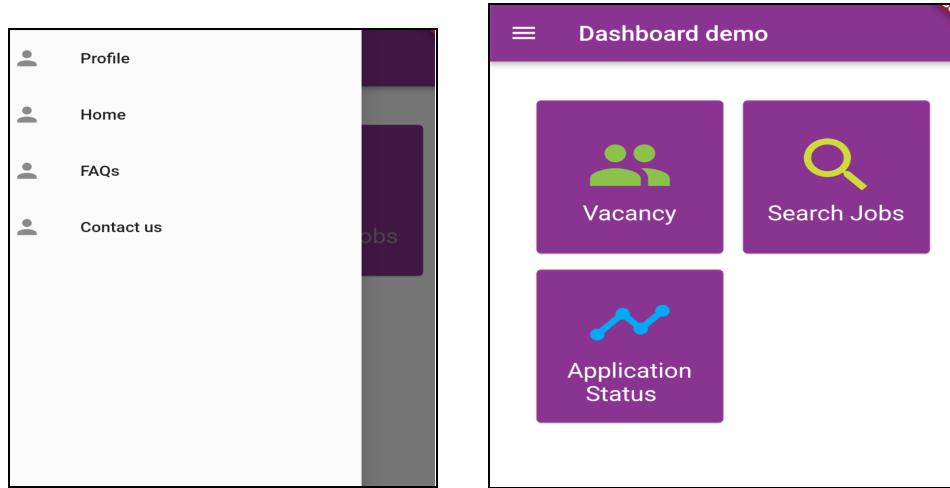
Meeting 1

On 17th January, a meeting was conducted to distribute work among team members for the mobile application project. The task assigned was to create the login page which was assigned to Robin and the user page and admin page which was assigned to Jenis and the documentation of this sprint was given to Vaibhav. During the meeting, responsibilities were clearly defined, and each team member was given specific tasks to ensure the efficient and effective completion of the project. The meeting ended with a discussion on the deadline and the next steps to be taken to ensure the project's success.

Meeting 2

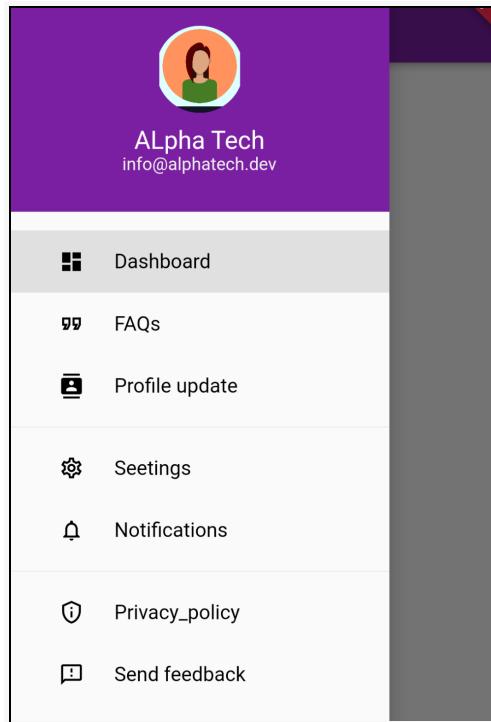
On 25th January, a meeting was conducted for the mobile application project team to review progress. Jenis presented his completed work on the user page. The team discussed how to prepare the necessary documentation and addressed any issues that arose during the creation of the login page. They also discussed potential solutions to these problems to ensure a smooth continuation of the project. The meeting ended with a clear plan for documenting the work and

a shared understanding of the steps needed to resolve any outstanding issues. The team was motivated to continue their work and make further progress toward delivering a high-quality mobile application.



Meeting 3

On 25th January, a short meeting was conducted to address a technical problem faced by Robin in creating the login page of the mobile application project. During the meeting, the team member presented the specific issue and the team discussed potential solutions. In the meeting Jenis presented her work on the admin page which she updated with her previous work. They also shared their insights and expertise to find the best course of action. The meeting ended with a clear plan to resolve the technical problem and the team members were provided with necessary support and guidance to continue their work. The team was focused on ensuring the smooth progress of the project and delivering a high-quality mobile application.



Meeting 4

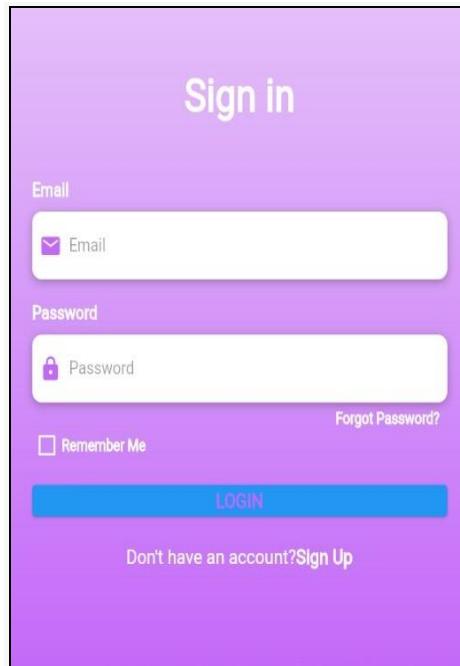
On 27th January, a meeting was conducted to assist Robin in coding the login screen for the mobile application project. During the meeting, the other team members shared helpful YouTube videos and provided reference materials to support Robin in completing the task. They also discussed the documentation process, including creating a Gmail-id for the company, to ensure the project's success. The meeting ended with a clear plan to complete the coding and documentation, with the team member being given the necessary support and guidance. The team was motivated and committed to delivering a high-quality mobile application.

Reference Video link :- [YouTube: Flutter: Login Page UI](#)

Meeting 5

On 30th January, a meeting was conducted to review the progress of the mobile application project. Robin presented the work he had done on the login screen of the application. The team discussed the progress and provided feedback on the design and functionality of the login screen. They also discussed any necessary

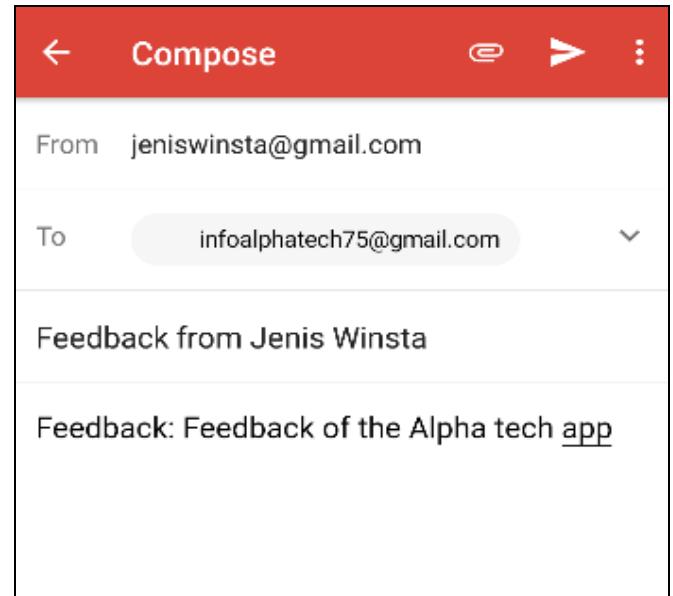
changes and improvements to ensure the best user experience. The meeting ended with a clear understanding of the next steps and the team's commitment to delivering a high-quality mobile application. The team was motivated and ready to continue their work towards their common goal.



Meeting 6

On 31st January, a short meeting was conducted to plan the next sprint for the mobile application project team. During the meeting, the team reviewed their progress and discussed the next steps in their project timeline. They then assigned tasks to each team member, where Robin was given to do the profile update, Vaibhav was assigned to take care of documentation and create UI for privacy policy and faq page and Jenis was assigned to create the admin page and combine the admin page with user page in one flutter project and combine the login page with the project and established clear goals and deadlines for the upcoming sprint. Jenis also completed the Send feedback page and Notification page. The send feedback page uses the **url_launcher** package which sends the feedback to company mail id through Gmail. For the notifications page on clicking each notification a new page is opened.

The screenshot shows a feedback form titled "Alpha tech". It has two input fields: "Name" and "Feedback", both outlined in purple. Below the fields are two buttons: "Cancel" on the left and "Send" on the right.



-
- The screenshot shows a list of five vacancies posted by Alpha tech:
- Vacancy posted Manager
 - Vacancy posted C++ developer
 - Vacancy posted Full Stack Developer
 - Vacancy posted sales
 - Vacancy posted Backend Developer

The screenshot shows a job description for a C++ developer:

Job title: C++ developer
Details: 3 years of experience
Description: Close work with Prod Support and Client Support and Configuration Management teams on incoming issues/ analysis of problems. Take ownership of development task, i.e., see it through from development point of view from initial analysis to when fix is coded/tested/ deployed. Independent analysis and suggest and implement coding of bug fixes found in Production/BUAT/UAT environments and test the same. Work with existing RKS Developers to have reviews of potential code fixes. Provide an analysis for

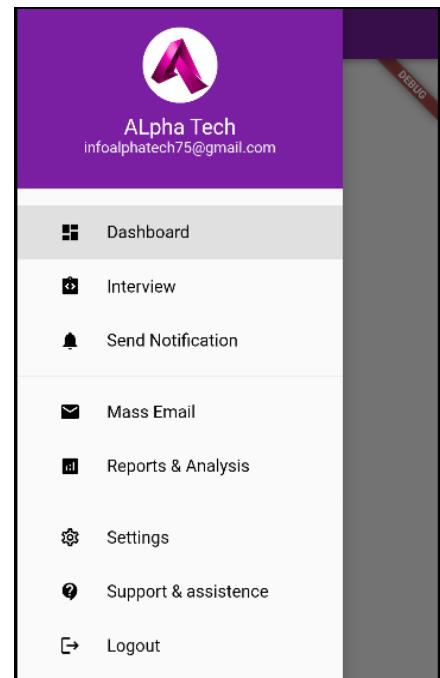
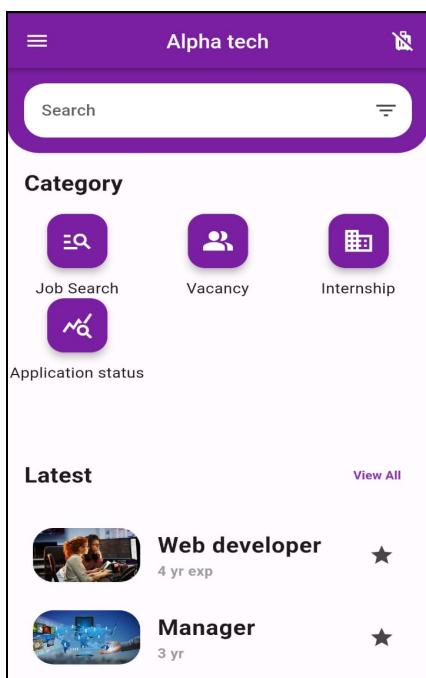
Sprint -2

Meeting 1

On 2nd February, a meeting was conducted to distribute work of the second sprint among team members for the mobile application project. The task assigned was to create the privacy policy page and FAQ page which was assigned to Vaibhav and the Profile update page was assigned to Robin and the documentation of this sprint was given to Vaibhav. Jenis was assigned to link all the pages in one flutter project. Jenis had also taken up the work for the User dashboard page.

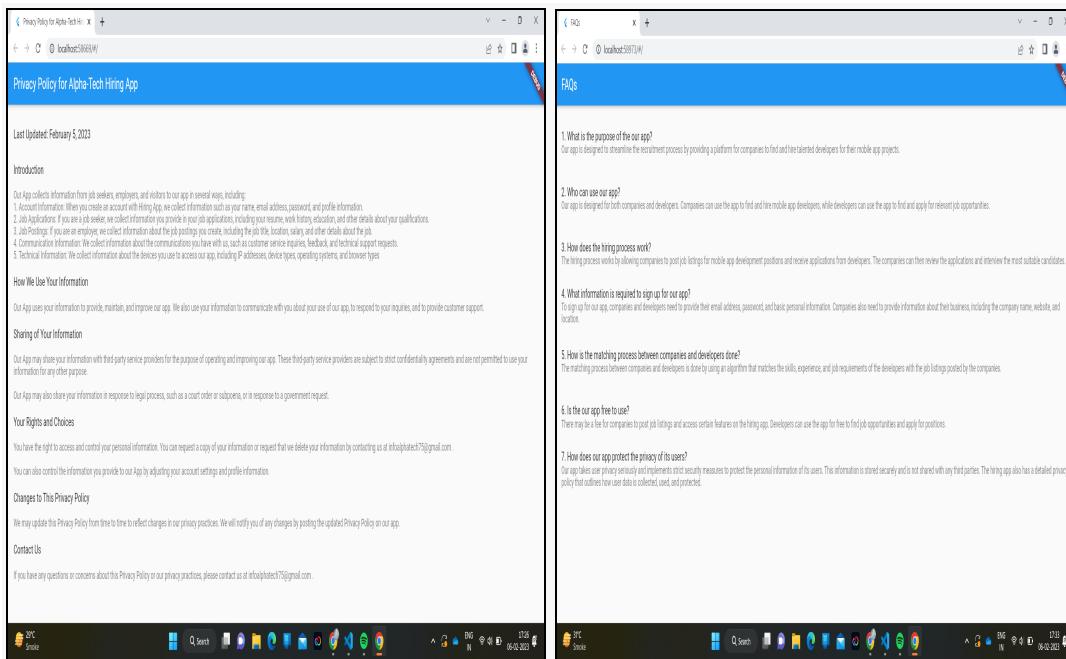
Meeting 2

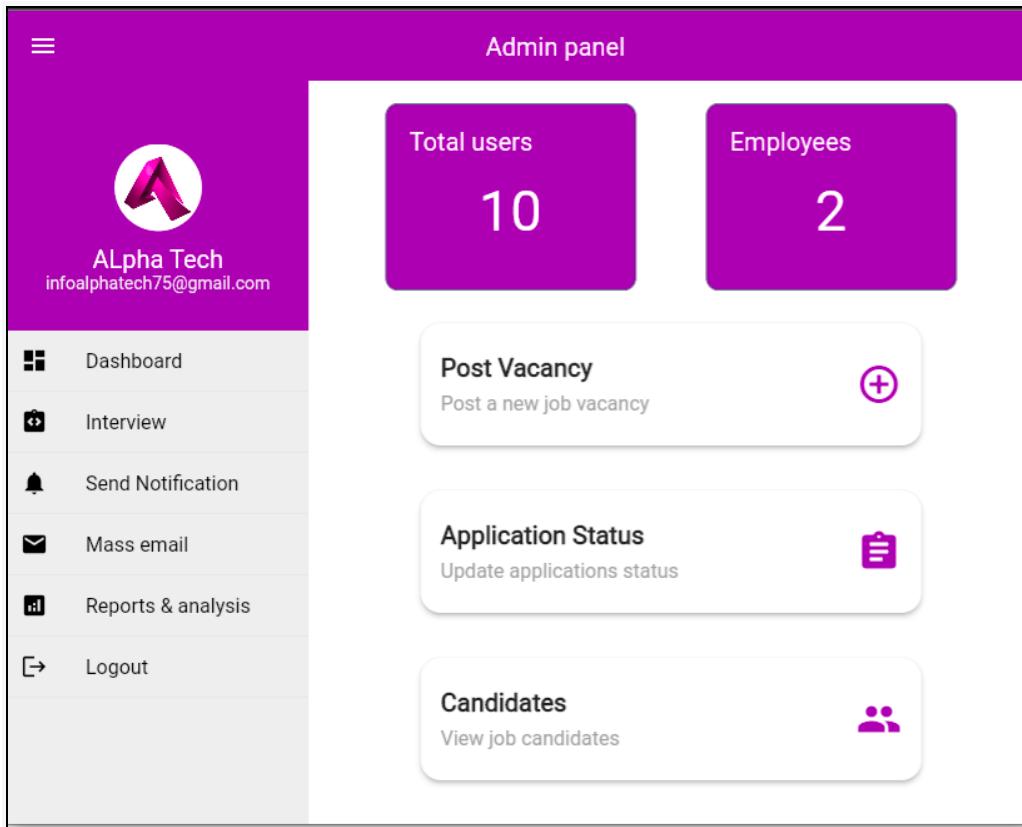
On 3rd February, a short meeting was conducted to address a difficulty faced by Vaibhav in creating the privacy policy page of the mobile application project. During the meeting, Vaibhav presented the documentation part which was done for the application. The team member presented the specific issue and the team discussed potential solutions. Jenis presented the work she completed for the User dashboard page and also linked the other pages (login page) provided by Robin. Along with the User dashboard, Jenis also completed the Admin page.



Meeting 3

On 5th February, a meeting was conducted to review the progress of the mobile application project. Vaibhav presented the work he had done on the privacy policy page and faq page of the application. The team discussed the progress and provided feedback on the design and told Vaibhav to apply some changes for better UI experience. The meeting ended with a clear understanding of the next steps and the team's commitment to delivering a high-quality mobile application. The team was motivated and ready to continue their work towards their common goal. Jenis did a responsive page for the mobile application which makes it more useful.





Meeting 4

The meeting that took place on the 9th was a productive one, where Robin presented his assigned work to the rest of the team. The presentation was well received and the team was engaged in a thorough discussion to add some changes to the existing work. The team was focused on finding ways to improve the project and make it even more impactful. The meeting ended on a positive note with everyone agreeing on the proposed changes and next steps for the project. Jenis edited the pages provided by the other team members and showed the overall output of the application.

FAQs

1. What is the purpose of our app?
Our app is designed to streamline the recruitment process by providing a platform for companies to find and hire talented developers for their mobile app projects.

2. Who can use our app?
Our app is designed for both companies and developers. Companies can use the app to find and hire mobile app developers, while developers can use the app to find and apply for relevant job opportunities.

3. How does the hiring process work?

4. What information is required to sign up for our app?
To sign up for our app, companies and developers need to provide their email address, password, and basic personal information. Companies also need to provide information about their business, including the company name, website, and location.

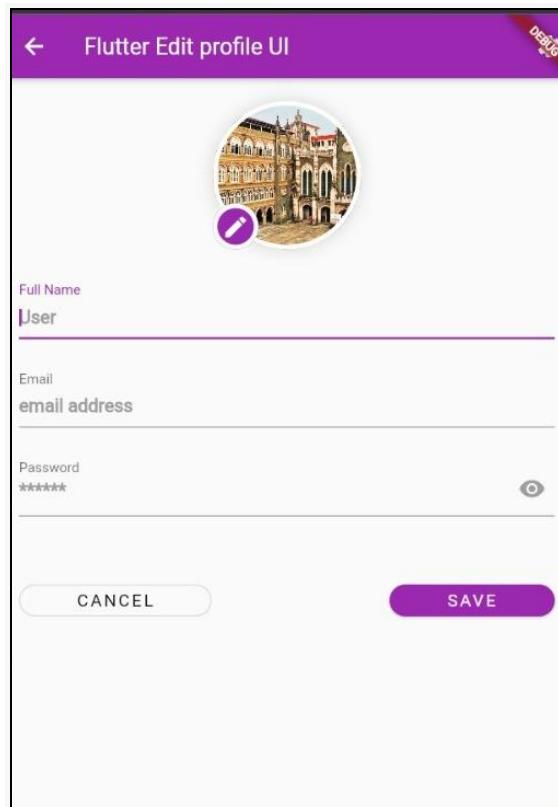
Privacy Policy for Alpha-Tech Hiring App

Last Updated: February 5, 2023

Introduction

Our App collects information from job seekers, employers, and visitors to our app in several ways, including:

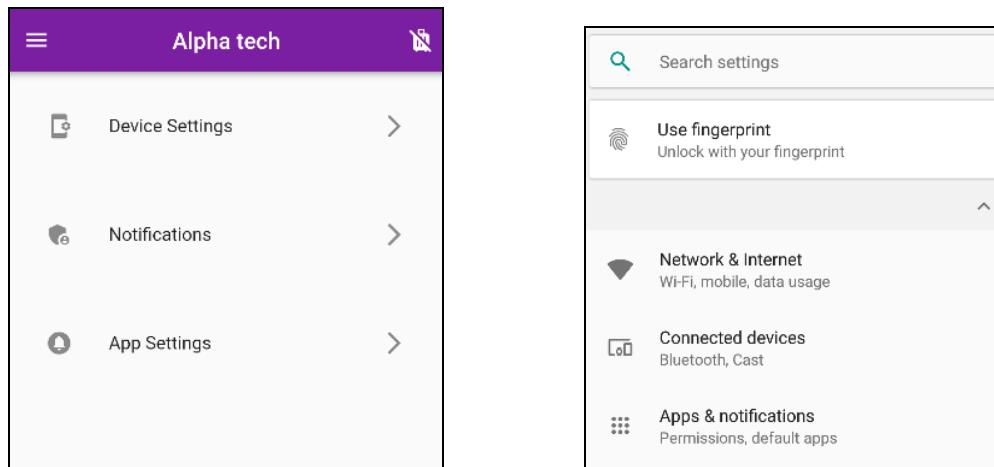
1. Account Information: When you create an account with Hiring App, we collect information such as your name, email address, password, and profile information.
2. Job Applications: If you are a job seeker, we collect information you provide in your job applications, including your resume, work history, education, and other details about your qualifications.
3. Job Postings: If you are an employer, we collect information about the job postings you create, including the job title, location, salary, and other details about the job.
4. Communication Information: We collect information about the communications you have with us, such as customer service inquiries, feedback, and technical support requests.
5. Technical Information: We collect information about the devices you use to access our app, including IP addresses, device types, operating systems, and browser types



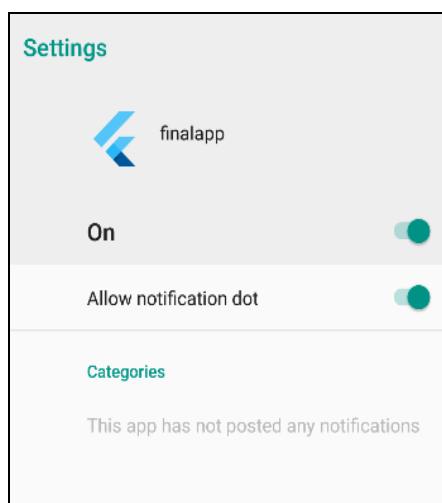
Meeting 5

The meeting held on 11th February was focused on making changes to the assigned work. Jenis asked the team members to make modifications to their previous work. Robin was instructed to add updates to their profile and Vaibhav was asked to add a back button to his assigned pages. Afterward, the team discussed the upcoming tasks and the issues faced by Jenis with the login process in the app. Also Jenis showed her work in the Settings page where she used the **app_settings** package to open settings of the device and app from the app.

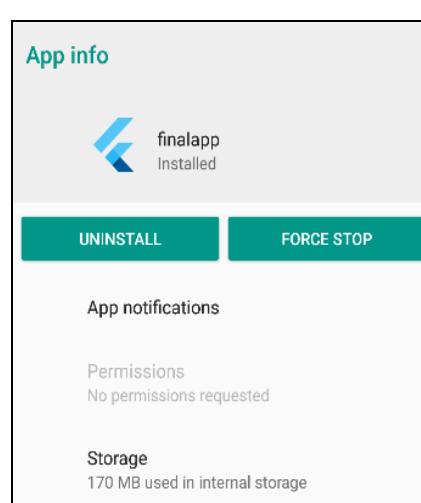
Device settings



Notification settings

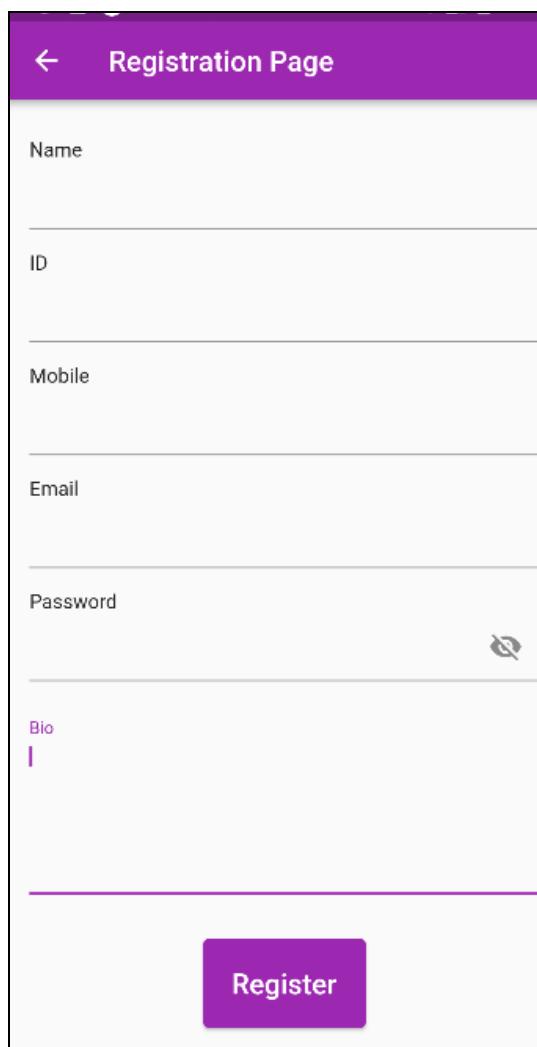


App Settings



Meeting 6

On February 12th, Jenis conducted a short meeting to showcase the app's working by connecting all the pages. Group members discussed the opportunity to test the app and discuss any potential changes that could be made to improve its functionality. Overall, the meeting was productive, and Jenis and the group members were able to work together to identify potential areas for improvement and discuss ways to enhance the app's functionality and user experience. Jenis also worked on the registration page where new users can register themselves.



A mobile application interface for a 'Registration Page'. The top bar is purple with the title 'Registration Page' and a back arrow icon. Below the header are five input fields: 'Name', 'ID', 'Mobile', 'Email', and 'Password'. The 'Password' field includes a visibility toggle icon. At the bottom is a large purple button labeled 'Register'.

Field	Type	Description
Name	Text	Input field for user name
ID	Text	Input field for user ID
Mobile	Text	Input field for user mobile number
Email	Text	Input field for user email address
Password	Text	Input field for user password, with a visibility icon
Bio	Text	Input field for user bio information

Sprint-3

Meeting – 1

On February 17th, the group members conducted a meeting to discuss the progress made on the assigned pages. During the meeting, they shared updates on the work completed so far and discussed any challenges they faced during the development process. They discussed the functionality and design of each page and offered suggestions for improvement. Overall, the meeting was productive, and the group members were able to review their progress on the assigned pages and discuss any challenges they faced. Jenis started with the database connection. Authentication database for Login and logout facilities and FireStore database for storing data. Images for the database are separately mentioned below.

Meeting – 2

On February 23rd, the group members conducted a meeting to assign tasks for the development of the app. During the meeting, they discussed the upcoming tasks and decided to assign specific pages to each member. Robin was assigned to make the vacancy page dynamic, Vaibhav was tasked with making the internship page dynamic, and Jenis was assigned to connect all the details to the Firebase. Jenis was also assigned with the Job Search page and to make them dynamic.

Meeting – 3

On February 25th, Jenis completed the Job Search page and made the Login connections. Fetching data after connection was the biggest task after the connection because data is fetched but displaying it in the UI had problems. Problems faced are mentioned separately. Robin and Vaibhav completed their part of creating the Vacancy and Internship page.

The image displays two side-by-side mobile application screens for "Alpha tech".

Left Screen (Internship):

- Marketing Intern**
Duration: 3-6 months
- Software Engineering Intern**
Duration: 3-6 months
- Graphic Design Intern**
Duration: 3-6 months
- Business Development Intern**
Duration: 3-6 months

Right Screen (Vacancy):

- Manager**
5 years experience
- C++ developer**
3 years of experience
- Full Stack Developer**
4 years of experience
- sales**
2 years of experience

The image shows a single mobile application screen for "Alpha tech" displaying search results.

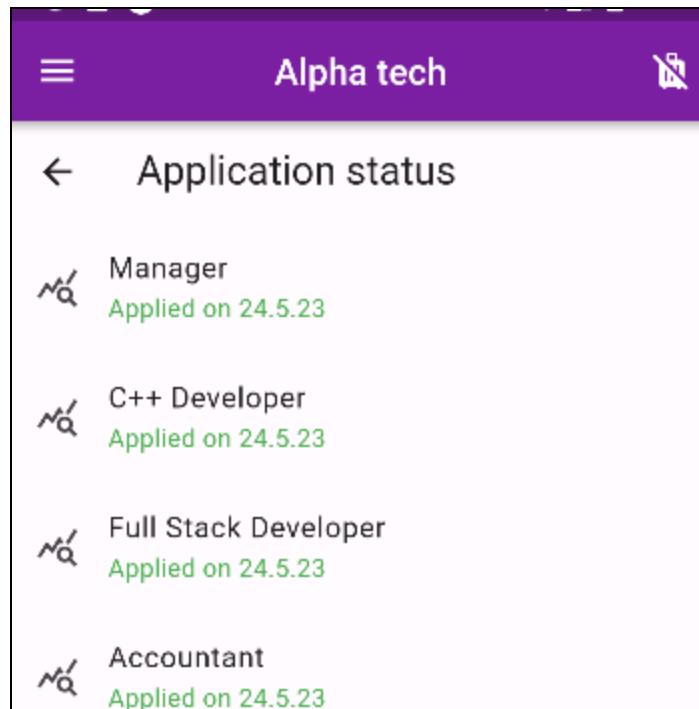
Job Search:

m

- Manager**
5 years experience
- Marketing Intern**
Duration: 3-6 months
- Software Engineering Intern**
Duration: 3-6 months

Meeting – 4

On February 26th, Jenis made the vacancy page dynamic and connected it to the firestore database, and she also connected the internship page to the database. And data entry for these pages in the backend was done by Robin and Vaibhav. Jenis also created the Application status page.



DataBase

For the backend of the app, 2 Databases are used: Authentication and FireStore database. Authentication for the **Login page** and **Registration page** which has Email id and password for logging in.

Authentication Database

Authentication				
<input type="text"/> Search by email address, phone number, or user UID Add user C :				
Identifier	Providers	Created ↓	Signed In	User UID
vaibhav@gmail.com	✉	Feb 26, 2023	Feb 27, 2023	CDlvGj8BhSbX0Tl1w31ZIN2AkxZ2
jenis@gmail.com	✉	Feb 26, 2023	Feb 28, 2023	nse6NIe4racoFSUbhzNP2m7alo23
winston@gmail.com	✉	Feb 25, 2023	Feb 26, 2023	KCJtbUkvQfVHpwazWm02IssJzP...
aakash@gmail.com	✉	Feb 24, 2023	Feb 26, 2023	fdMBpTHZtTXs1KxbrijLhTaJVD52

Rows per page: 50 ▾ 1 – 4 of 4 < >

Import Statement:

```
import 'package:firebase_auth/firebase_auth.dart';
```

Methods to Authenticate with Firebase using Password-Based Accounts:

1. **For Registration:** `createUserWithEmailAndPassword()` method is used to create users and logs them in the application.

```
await FirebaseAuth.instance.createUserWithEmailAndPassword(
  email: _emailController.text.trim(),
  password: _passwordController.text.trim());
```

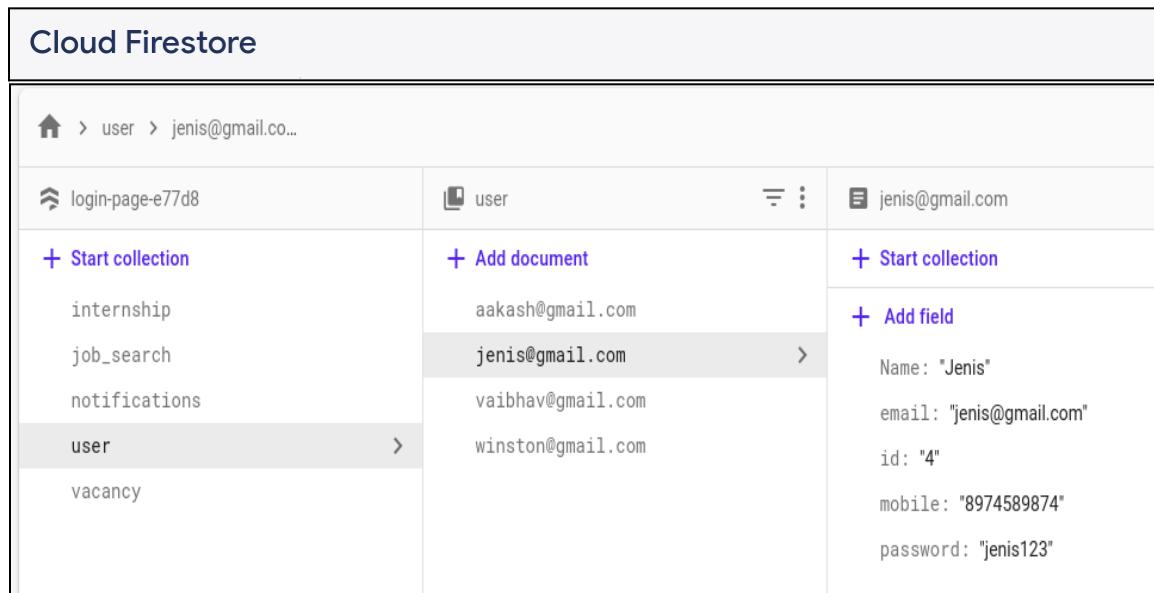
-
- 2. For Sign- In:** signInWithEmailAndPassword() method is used for logging the user in with the email and password.

```
await FirebaseAuth.instance.signInWithEmailAndPassword(
  email: emailTEC.text.trim(),
  password: passwordTEC.text.trim());
```

These methods of the authentication database are easy for the user to login to the application. This also makes sure that the user is logged in until LOGOUT is pressed by the user.

Firestore Database

Collection User:



The screenshot shows the Cloud Firestore interface with the 'User' collection selected. The left sidebar lists collections: 'login-page-e77d8', 'internship', 'job_search', 'notifications', 'user' (which is selected and highlighted in grey), and 'vacancy'. The main area shows documents under the 'user' collection. A new document 'jenis@gmail.com' is currently being edited, as indicated by the highlighted row. The document contains fields: 'Name: "Jenis"', 'email: "jenis@gmail.com"', 'id: "4"', 'mobile: "8974589874"', and 'password: "jenis123"'. There are also options to 'Add document' and 'Start collection'.

	user		jenis@gmail.com
+ Start collection	+ Add document	+ Start collection	
internship	aakash@gmail.com	+ Add field	
job_search	jenis@gmail.com >	Name: "Jenis"	
notifications	vaibhav@gmail.com	email: "jenis@gmail.com"	
user >	winston@gmail.com	id: "4"	
vacancy		mobile: "8974589874"	
		password: "jenis123"	

Collection internship:

The screenshot shows a MongoDB interface with the following details:

- Path:** internship > 201
- Collection:** internship
- Document ID:** 201
- Description:** "Compensation: Unpaid, but may be eligible for academic credit
Job Description: Alpha-Tech is seeking a motivated and enthusiastic Marketing Intern to assist with various marketing and communication tasks. The ideal candidate will have a strong interest in marketing and a willingness to learn new skills. Responsibilities: Assist with the development and execution of marketing campaigns across various channels (social media, email, etc.) Help create and manage content for the company's blog and social media platforms Conduct research on industry trends and competitor analysis Assist with the planning and execution of events and webinars Provide support for other marketing and communication tasks as needed Qualifications: Currently enrolled in a Bachelor's or Master's program in Marketing, Communications, or a related field Strong written and verbal communication skills Familiarity with social media platforms (Twitter, Facebook, LinkedIn, etc.) Strong organizational and time management skills Ability to work independently and as part of a team"
- Details:** "Duration: 3-6 months"
- ID:** 201

Collection Job_search:

The screenshot shows a MongoDB interface with the following details:

- Path:** job_search > 111
- Collection:** job_search
- Document ID:** 111
- Description:** "Scrum Master, Agile Lead or similar role Certified Scrum Master (CSM) and/or SAFe-certified Demonstrates understanding of scope, schedule and planning; understanding of time management, resource management cost management. Possesses good project management skills. experience in the definition of Scrum Master Standards, Processes and Procedures Experience of working within complex, matrixed multi-location teams Experience creating, executing and amending project plans for large, complex projects Proven experience delivering effective change management strategies and implementing scalable transitions"
- Details:** "5 years experience"
- Title:** "Manager"
- vid:** 111

Collection vacancy:

More in Google Cloud ▾

vacancy	111	112	113	114	115	116
+ Start collection	+ Add document	+ Start collection				
internship	111	112	113	114	115	116
job_search						
notifications						
user						
vacancy	111					

111

description: "Scrum Master, Agile Lead or similar role Certified Scrum Master (CSM) and/or SAFe-certified Demonstrates understanding of scope, schedule and planning; understanding of time management, resource management cost management. Possesses good project management skills. experience in the definition of Scrum Master Standards, Processes and Procedures Experience of working within complex, matrixed multi-location teams Experience creating, executing and amending project plans for large, complex projects Proven experience delivering effective change management strategies and implementing scalable transitions"

details: "5 years experience"

title: "Manager"

vid: 111

Collection notifications:

More in Google Cloud ▾

notifications	111	112	113	114	115	116	201	202	203	204
+ Start collection	+ Add document	+ Start collection								
internship	111	112	113	114	115	116	201	202	203	204
job_search										
notifications	111									

111

description: "Scrum Master, Agile Lead or similar role Certified Scrum Master (CSM) and/or SAFe-certified Demonstrates understanding of scope, schedule and planning; understanding of time management, resource management cost management. Possesses good project management skills. experience in the definition of Scrum Master Standards, Processes and Procedures Experience of working within complex, matrixed multi-location teams Experience creating, executing and amending project plans for large, complex projects Proven experience delivering effective change management strategies and implementing scalable transitions"

details: "5 years experience"

id: 111

title: "Manager"

Import Packages:

```
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:firebase_core/firebase_core.dart';
```

For Connection: For connecting the Fire

```
void main() async{
  WidgetsFlutterBinding.ensureInitialized();
  await Firebase.initializeApp(
    options: const FirebaseOptions(
      apiKey: "AIzaSyDksVq3lellz0wmvsyyXNSq4vChSMFD290",
      // authDomain: ,
      appId: "1:885657865399:android:741b7cce9497bfa9e79132",
      messagingSenderId: "885657865399",
      projectId: "login-page-e77d8",
    ),
  );
  runApp(const MyApp());
}
```

Create Operation:

```
DocumentReference documentReference =
  FirebaseFirestore.instance.collection("user").doc(email);
```

```
Map<String, dynamic> userinfo = {
  "Name": name,
  "id": id,
  "mobile": mobile,
  "email": email,
  "password": password,
  "Bio": bio,
};

documentReference.set(userinfo).whenComplete(() {
  if (kDebugMode) {
    print("create user");
    print("$name created");
  } else {
    if (kDebugMode) {
      print("error");
    }
  }
});
```

Read Operation:

```
final FirebaseFirestore firestore = FirebaseFirestore.instance;
final user = FirebaseAuth.instance.currentUser;

await firestore
    .collection('user')
    .doc(email)
    .get()
    .then((DocumentSnapshot documentSnapshot) {
  if (documentSnapshot.exists) {
    name = documentSnapshot.get('Name');
    print('Name: $name');
  } else {
    print('Document does not exist!');
  }
})
```

Update Operation:

```
DocumentReference documentReference =
    FirebaseFirestore.instance.collection("user").doc(user!.email);

documentReference.update(userInfo).whenComplete(() {
  if (kDebugMode) {
    print("$name updated");
  } else {
    if (kDebugMode) {
      print("error");
    }
  }
});
```

Workflow of the project

	Date	Task/Discussion	Resources
1	17th January	<ul style="list-style-type: none"> • Task Assignment • Login Page • Admin Page • Documentation Work 	
2	25th January	<ul style="list-style-type: none"> • Completion of Admin Page • Discussed problem while creating login page and documentation 	Screenshot... Screenshot...
3	25th January	<ul style="list-style-type: none"> • Technical Problems in Login page • Updates on admin page 	Screenshot...
4	27th January	<ul style="list-style-type: none"> • Assisting in coding for login page 	Flutter: Log...
5	30th January	<ul style="list-style-type: none"> • Completion of Login page • Discussion on improving UI 	WhatsApp ...
6	31st January	<ul style="list-style-type: none"> • Discuss next sprint plan • Assignment of work for next sprint 	url_launcher_android Flutter Package
7	2nd Feb	<ul style="list-style-type: none"> • Task assignment • Privacy Policy Page • FAQ Page • Profile Update Page 	Flutter: Pro... ListView W...
8	3rd Feb	<ul style="list-style-type: none"> • Discussion on Problem faced • Review on Documentation 	Navigation ...
9	5th Feb	<ul style="list-style-type: none"> • Presentation of Privacy Policy and FAQ page • Discussion on changes • Admin Page(responsive) 	
10	9th Feb	<ul style="list-style-type: none"> • Presentation of Profile Update • Discussion on changes 	
11	11th Feb	<ul style="list-style-type: none"> • Modification to the previous pages 	Navigation...
12	12th Feb	<ul style="list-style-type: none"> • Presentation of App 	Flutter Tuto...

		<ul style="list-style-type: none"> • Linking of all the pages • App settings 	app_settings Flutter Package
13	13th Feb	<ul style="list-style-type: none"> • Assignment of work • Login screen firebase 	 Build a Log...
14	17th Feb	<ul style="list-style-type: none"> • Review on progress of assigned work • Discussion on problem faced • Authentication database 	 Flutter Fire... 🔒 Email...
15	23rd Feb	<ul style="list-style-type: none"> • Working of App and problem faced in packages • Vacancy page and Internship page 	 ListView B...
16	25th Feb	<ul style="list-style-type: none"> • Discussion on problem faced in connecting UI to firebase • Job search page 	 Flutter: Se...
17	26th Feb	<ul style="list-style-type: none"> • Assignment of Work • Job Search, Internship, Vacancy page dynamic • Connect to Firebase 	 Fetch data ...

Accessibility

Accessibility is also a key consideration in Flutter development and there are several ways to implement accessibility in Flutter apps.

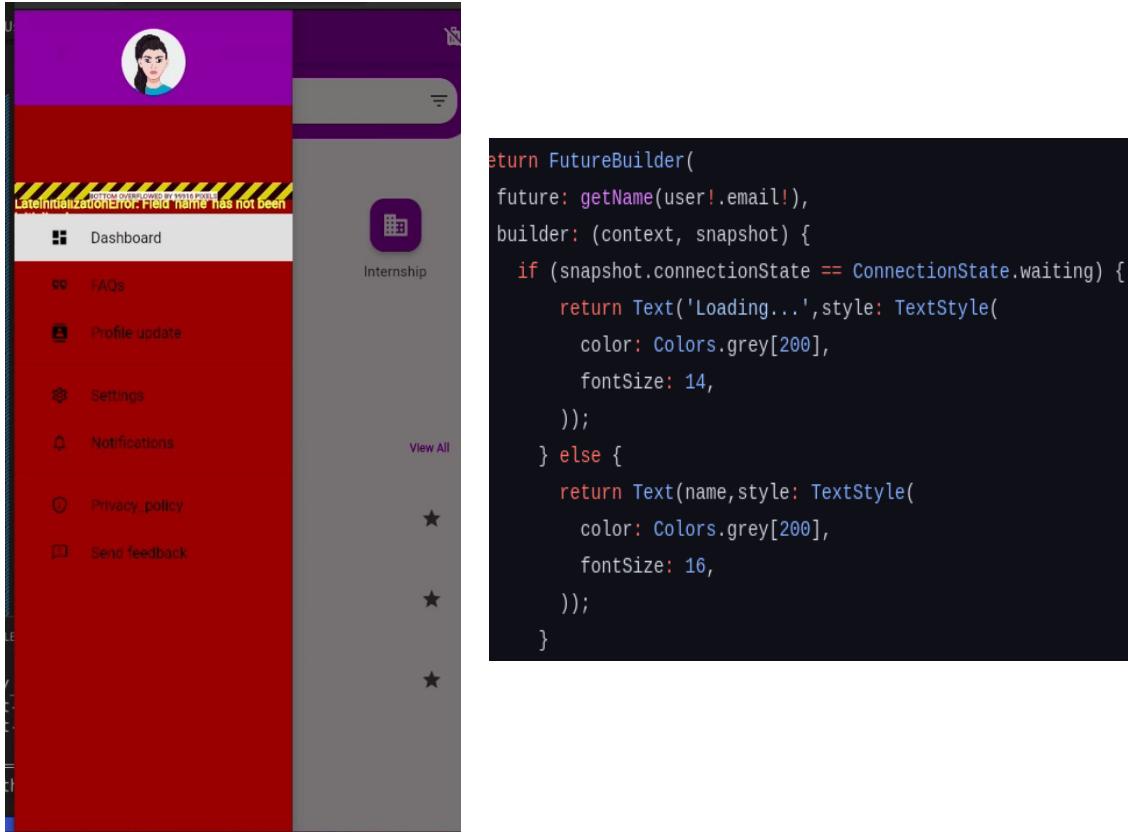
1. Use Semantics: Semantic labels provide additional information about UI elements that can be used by accessibility tools, such as screen readers.
2. Implement text scaling: allowing users to adjust the font size based on their visual needs using the MediaQuery class to retrieve the user's text scale preference and adjust the font size accordingly will help the user with visual difficulty

We tried to implement Semantic labels in our application. We used the Semantics widget to provide additional information about other types of widgets, such as TextField, Checkbox, and Slider. For example, you can use the hint property to provide a hint text for a TextField, or the value property to indicate the current value of a Slider. We have implemented semantic labels in most of the user interactions.

```
Text('Name'),  
Semantics(  
  label: 'Name',  
  child: TextFormField(  
    controller: _nameController,  
    // decoration: InputDecoration(labelText: 'Name'),  
  ),  
,
```

Errors and Debug

1. Error when fetching data from the database and displaying it.



2. Error faced in package url_launcher

```

I/UrlLauncher(11328): component name for mailto:infoalphatech75@gmail.com?subject=App%20Feedback&body=App%20Version%203.23 is null
E/flutter (11328): [ERROR:flutter/runtime/dart_vm_initializer.cc(41)] Unhandled Exception: Could not launch mailto:infoalphatech75@gmail.com?subject=App%20Feedback&body=App%20Version%203.23
E/flutter (11328): #0      _FeedbackPageState._sendFeedback (package:finalapp/User/pages/feedback.dart:42:7)
E/flutter (11328): <asynchronous suspension>
E/flutter (11328):
I/UrlLauncher(11328): component name for mailto:infoalphatech75@gmail.com?subject=App%20Feedback&body=App%20Version%203.23 is null
E/flutter (11328): [ERROR:flutter/runtime/dart_vm_initializer.cc(41)] Unhandled Exception: Could not launch mailto:infoalphatech75@gmail.com?subject=App%20Feedback&body=App%20Version%203.23
E/flutter (11328): #0      _FeedbackPageState._sendFeedback (package:finalapp/User/pages/feedback.dart:42:7)
E/flutter (11328): <asynchronous suspension>
E/flutter (11328):
I/UrlLauncher(11328): component name for mailto:infoalphatech75@gmail.com?subject=App%20Feedback&body=App%20Version%203.23 is null

```

Resolved the error by making changes in the `AndroidManifest.xml` file

```
<uses-permission android:name="android.permission.QUERY_ALL_PACKAGES" />
```

Code:

GITHUB: <https://github.com/Jenis-winsta/MOAD-SE>

MoAD Docs: [!\[\]\(909ff976bf47376a7a813dc1902dc014_img.jpg\) MoAD code](#)

Video demonstration:

https://www.canva.com/design/DAFb4ARDaBM/ie0Vsb7IPrv_aMORKvCKoTw/watch?utm_content=DAFb4ARDaBM&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton

Conclusion:

The Alpha-tech application is still in its development stage. The admin module where the company's HR team can post vacancy, see the no. of candidates applied and other functionalities are still not added. The admin page is responsible for now and has a way to extend the project with a much larger scale.