VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELAGAVI - 590 018

A MINI PROJECT REPORT

on

"WORKER HIRING APPLICATION"

Submitted by

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In partial fulfillment of the requirements for the VI semester

MOBILE APPLICATION DEVELOPMENT

of

BACHELOR OF ENGINEERING

in

INFORMATION SCIENCE & ENGINEERING

Under the Guidance of

Mr. Ganaraj K

Assistant Professor, Department of ISE

at

SAHYADRI

College of Engineering & Management

Adyar, Mangaluru - 575 007

2021 - 22

SAHYADRI

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Department of Information Science & Engineering

CERTIFICATE

This is to certify that the **Mini Project** entitled **"Worker Hiring Application"** has been carried out by **Shubham Sharma (4SF19IS101)** and **Srivatsa Nayak (4SF19IS106)**, the bonafide students of Sahyadri College of Engineering & Management in partial fulfillment of the requirements for the VI semester **Mobile Application Development (18CSMP68)** of **Bachelor of Engineering in Information Science & Engineering** of Visvesvaraya Technological University, Belagavi during the year 2021 - 22. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work.

Mr. Ganaraj K	**Dr. Shamanth Rai**
Assistant Professor	Professor & HOD
Dept. of ISE, SCEM	Dept. of ISE, SCEM

External Practical Examination:

Examiner's Name	Signature with Date
1.	.....
2.	.....

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DECLARATION

We hereby declare that the entire work embodied in this Mini Project Report titled **"Worker Hiring Application"** has been carried out by us at Sahyadri College of Engineering and Management, Mangaluru under the supervision of **Mr. Ganaraj K** as the part of the VI semester **Mobile Application Development (18CSMP68)** of **Bachelor of Engineering** in **Information Science & Engineering**. This report has not been submitted to this or any other University.

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Abstract

Finding a suitable work that best suits the interests and skill set is quite a challenging task for the job seekers. The difficulties arise from not having proper knowledge the work culture and current job openings. In addition, finding the right candidate with desired qualifications to fill their current work openings is an important task for the recruiters. Worker Hiring App has certainly made work seeking convenient on both sides. This application is the solution where recruiter as well as the work seeker meet aiming at fulfilling their individual requirement. Using the portal work seekers can extensively search for works in in different shops and that meet their requirements. They are the cheapest as well as the fastest source of communication reaching wide range of audience on just a single click irrespective of their geographical distance.

Acknowledgement

It is with great satisfaction and euphoria that we are submitting the Mini Project Report on **"Worker Hiring Application"**. We have completed it as a part of the VI semester **Mobile Application Development (18CSMP68)** of **Bachelor of Engineering** in **Information Science & Engineering** of Visvesvaraya Technological University, Belagavi.

We are profoundly indebted to our guide, **Mr. Ganaraj K**, Assistant Professor, Department of Information Science & Engineering for innumerable acts of timely advice, encouragement and We sincerely express our gratitude.

We express our sincere gratitude to **Dr. Shamanth Rai**, Professor &Head, Department of Information Science & Engineering for his invaluable support and guidance.

We sincerely thank **Dr. Rajesha S**, Principal, Sahyadri College of Engineering & Management who have always been a great source of inspiration.

Finally, yet importantly, We express our heartfelt thanks to our family & friends for their wishes and encouragement throughout the work.

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Chapter 1

Introduction

Worker Hiring Application is a android application, which serves Work seekers to find available work and recruiter to identify eligible work seekers with the prospect of selecting the necessary candidates. The only way to select candidate is to have a pool of eligible applicants which is possible by drawing the interest of individuals in the market. This application serves best for this purpose. Online recruitment has become the standard means for employers and work seekers to meet their respective objectives. The traditional methods for recruitment includes advertising in the newspapers, televisions etc. With the advancement in technology and growth of internet usage, the online recruitment has revolutionized the way employers hire and candidates search for jobs. With this application, the recruitment process is speeded up at every stage from advertising work, to receiving applications from candidates. The cost of searching/posting jobs will be much less compared to the traditional way of advertising. Using the portal work seekers can extensively search for works in in different shops and that meet their requirements.

1.1 Purpose

The main purpose of the Project on Worker Hiring App is to manage the details of work, Vacancy, Work seeker. It manages the all the information about work, Call Later, interview. The project helps the users to recruit workers and users can also apply for work. The purpose of the project is to build an application program to reduce all the manual work for managing the Work, Vacancy. It tracks the details of the Work seekers.

1.2 Scope

This application is not only limited to well qualified employees but also for the normal workers who seek to work in normal shops. The application is user friendly is also very easy to understand to the workers who want to apply for available jobs. The application will also guarantee security to the users who seek work.

1.3 Overview

The main objective of this mini-project is to propose and develop a interface for users who seek to find available work and also for the recruiters to find suitable candidates for the work. This application manages all the information about work, Call Later, interview. The application helps the small shops to recruit workers. The recruiters can see the list of applicants and arrange the interview.

Chapter 2

Requirements Specification

2.1 Hardware Specification

- Processor : Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz 1.80 GHz
- RAM : 8GB
- Hard Disk : 1TB
- Input Device : Standard keyboard and Mouse
- Output Device : Monitor

2.2 Software Specification

- Programming Language : Java and XML
- IDE : Android Studio
- Database: Firebase

Chapter 3

System Design

3.1 Architecture Diagram

The architecture diagram of the application is as shown in the below figure:

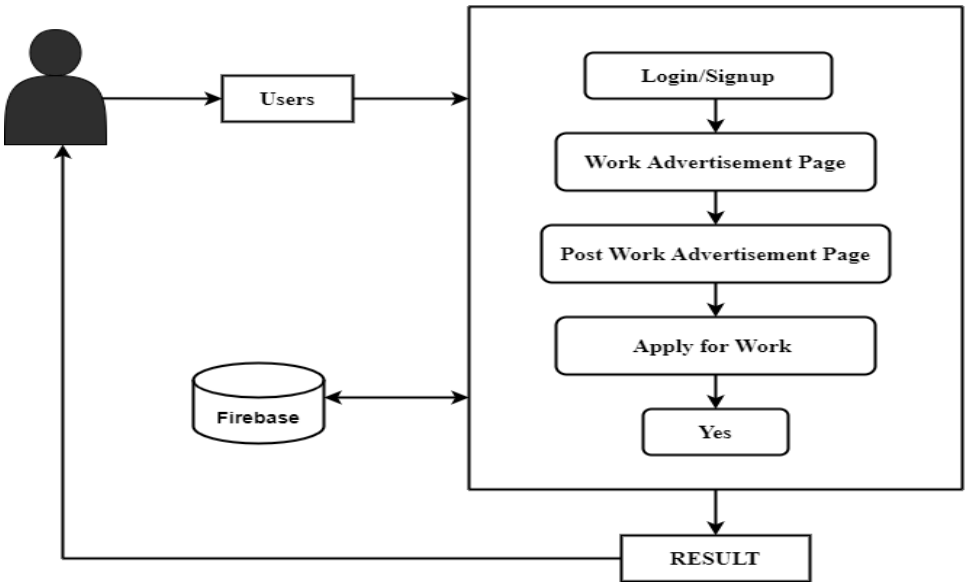


Figure 3.1: Architecture Diagram for Worker Hiring application

First the user needs to register in sign up page and then the user can login to the application. Once logged in, the user can fill the work details in the work advertisement page to find the work seekers. Once these information are given, it is stored in the database and and this information is displayed in the home page. The work seekers can view all the ads and apply according to the requirements.

Chapter 4

Implementation

4.1 Pseudocode for Worker Hiring Application

Pseudocode for Login and Register page:

This code represents the Login Page. Checks whether the user has already registered or not. The user can sign up if not registered. Once the sign up is successfull the user is directed towards the home page.

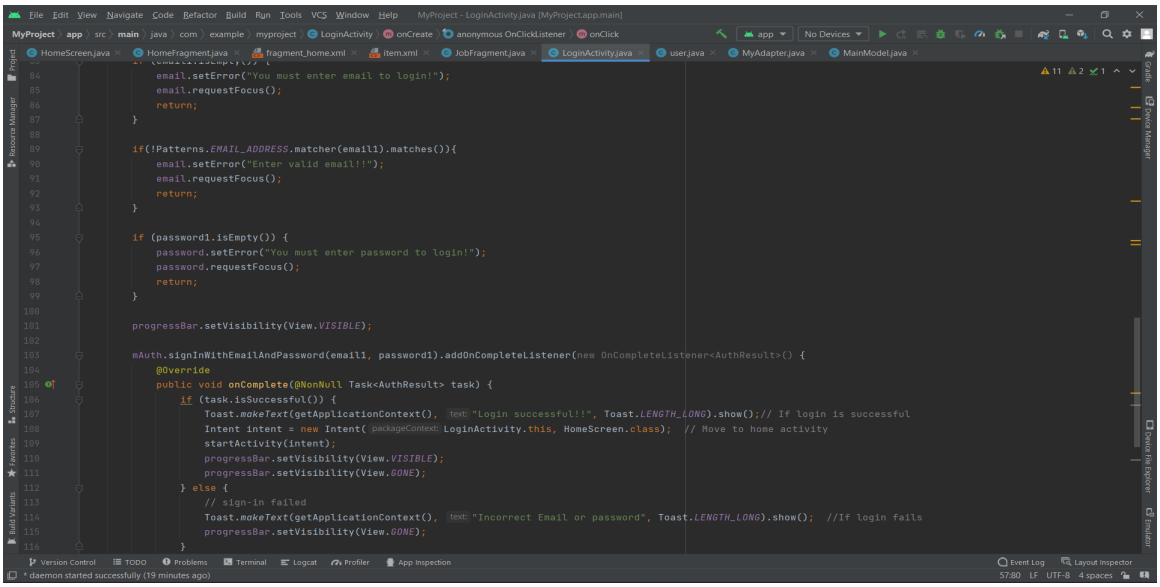
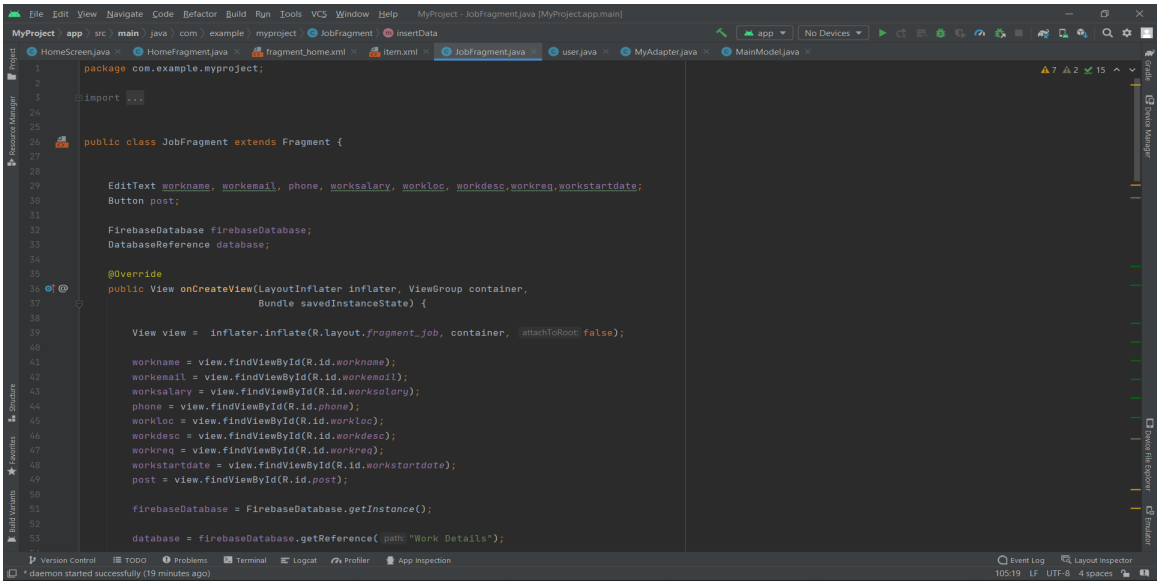


Figure 4.1: Pseudocode for Login and Register page

Pseudocode for adding the work details:

This code represents the work details. The user should fill all the required details which includes work name, requirements, description, phone number, email, salary and start date.

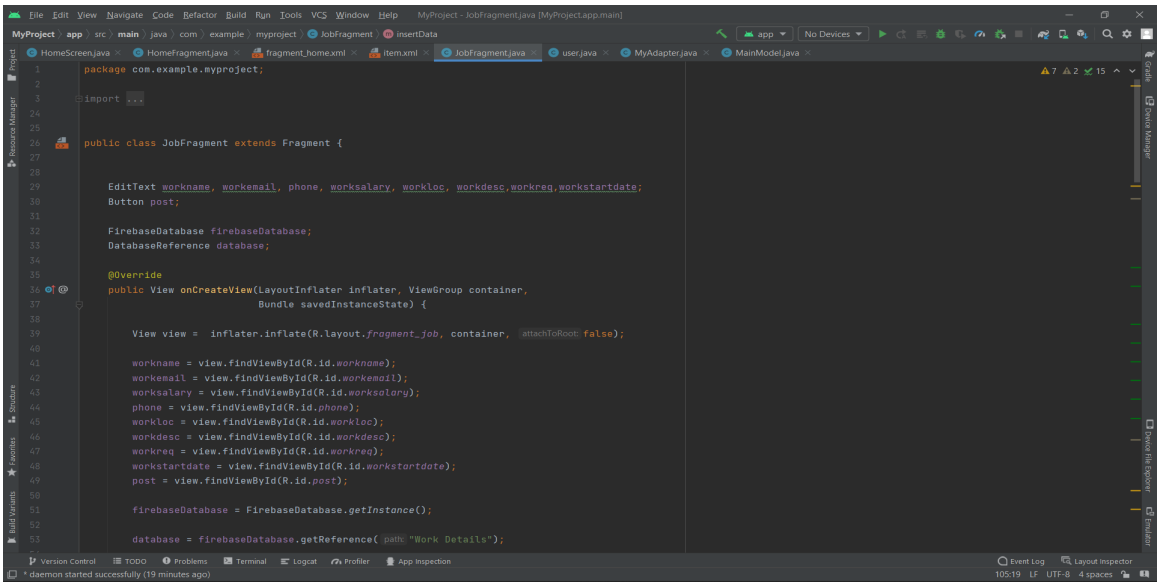


```
package com.example.myproject;

import ...

public class JobFragment extends Fragment {


    EditText workname, workemail, phone, worksalary, workloc, workdesc,workreq,workstartdate;
    Button post;

    FirebaseDatabase firebaseDatabase;
    DatabaseReference database;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {

        View view =  inflater.inflate(R.layout.fragment_job, container,  attachToRoot: false);

        workname = view.findViewById(R.id.workname);
        workemail = view.findViewById(R.id.workemail);
        worksalary = view.findViewById(R.id.worksalary);
        phone = view.findViewById(R.id.phone);
        workloc = view.findViewById(R.id.workloc);
        workdesc = view.findViewById(R.id.workdesc);
        workreq = view.findViewById(R.id.workreq);
        workstartdate = view.findViewById(R.id.workstartdate);
        post = view.findViewById(R.id.post);

        firebaseDatabase = FirebaseDatabase.getInstance();

        database = firebaseDatabase.getReference( path: "Work Details");
```

Figure 4.2: Pseudocode for Work Details page

Pseudocode for Homescreen:

This code represents the advertisements posted by the work owners. The work seekers can apply for the required work.



```
package com.example.myproject;

import ...

public class JobFragment extends Fragment {


    EditText workname, workemail, phone, worksalary, workloc, workdesc,workreq,workstartdate;
    Button post;

    FirebaseDatabase firebaseDatabase;
    DatabaseReference database;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {

        View view =  inflater.inflate(R.layout.fragment_job, container,  attachToRoot: false);

        workname = view.findViewById(R.id.workname);
        workemail = view.findViewById(R.id.workemail);
        worksalary = view.findViewById(R.id.worksalary);
        phone = view.findViewById(R.id.phone);
        workloc = view.findViewById(R.id.workloc);
        workdesc = view.findViewById(R.id.workdesc);
        workreq = view.findViewById(R.id.workreq);
        workstartdate = view.findViewById(R.id.workstartdate);
        post = view.findViewById(R.id.post);

        firebaseDatabase = FirebaseDatabase.getInstance();

        database = firebaseDatabase.getReference( path: "Work Details");
```

Figure 4.3: Pseudocode for Homescreen page

Chapter 5

Results and Disscussion

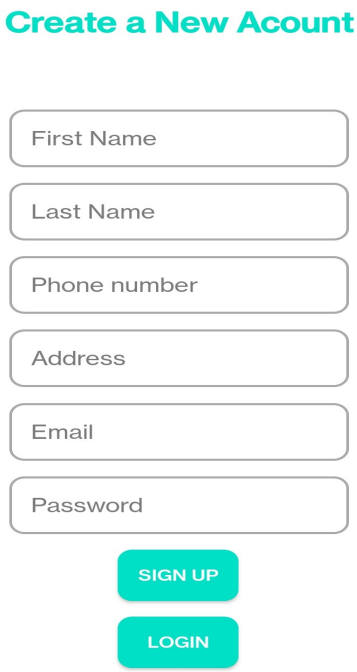


Figure 5.1: User Sign Up Page

The above figure is the Sign up page where the users can create their account by giving the required details. The user can login if an account already exists.

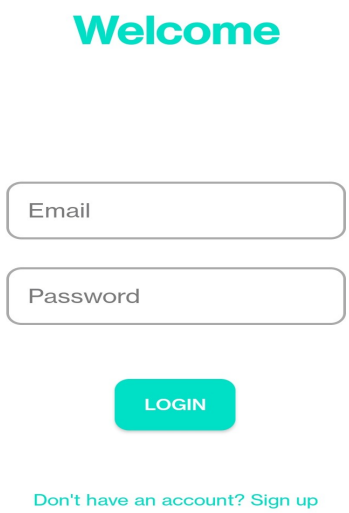


Figure 5.2: User login page

The above figure is the login page where the users logs into their account by entering the email and the password. The users can sign up if they do not have a existing account

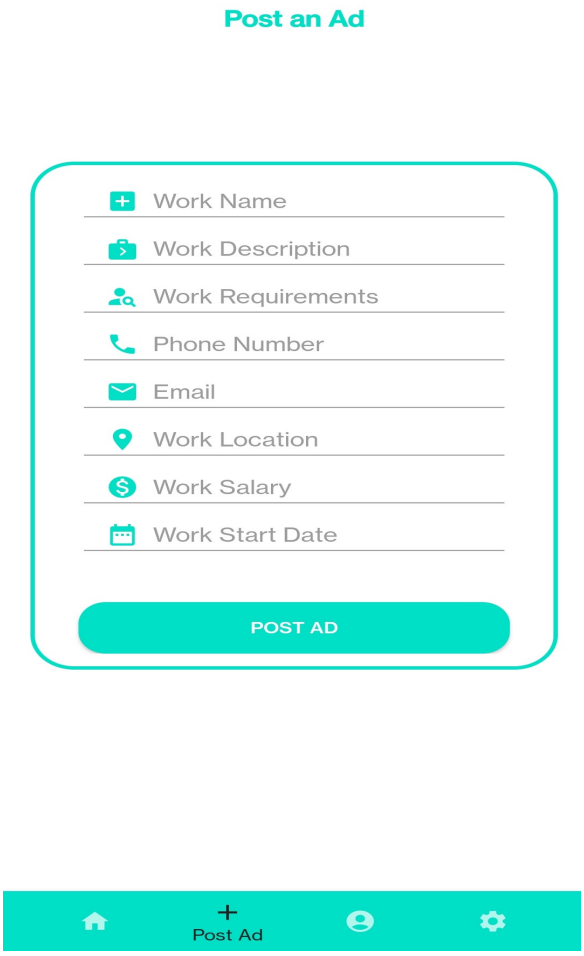


Figure 5.3: Work Details page

The above figure is the page in the application where the recruiter can fill in the required details and post the advertisement.

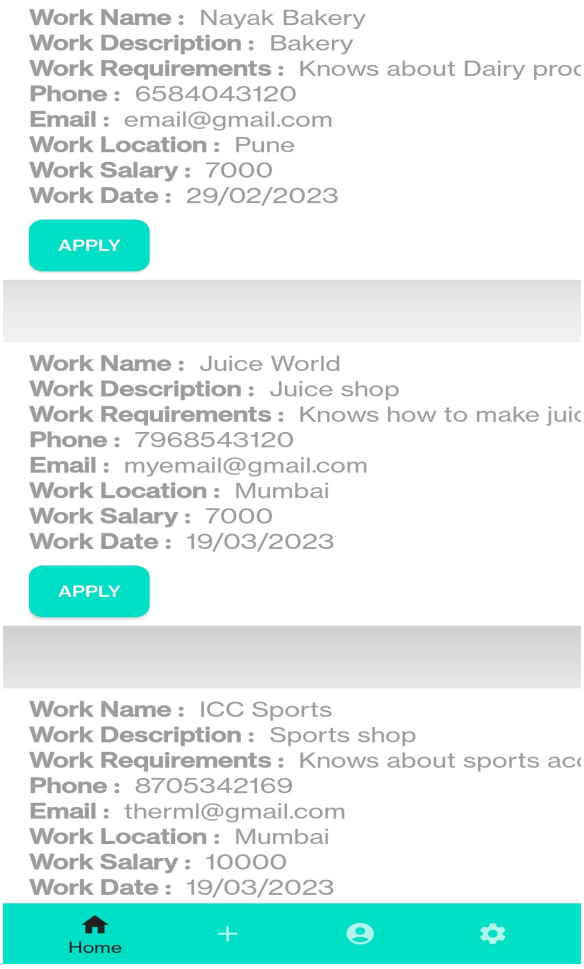


Figure 5.4: Home page

The above figure is the page in the application where the work seekers can see the advertisement posted and can apply for work according to their needs.

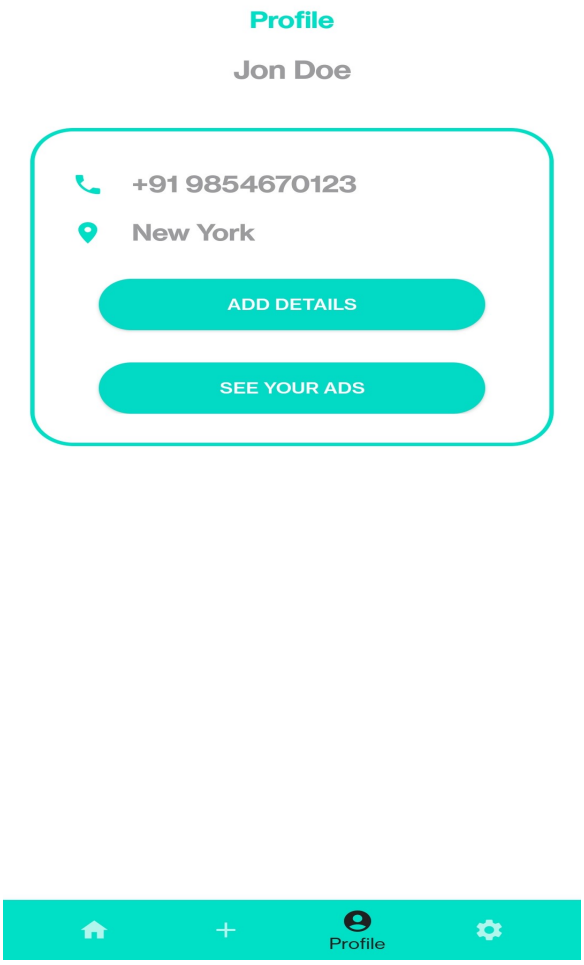


Figure 5.5: Profile page

The above figure is the profile page where the users can see their details and can see the ads that they have posted.

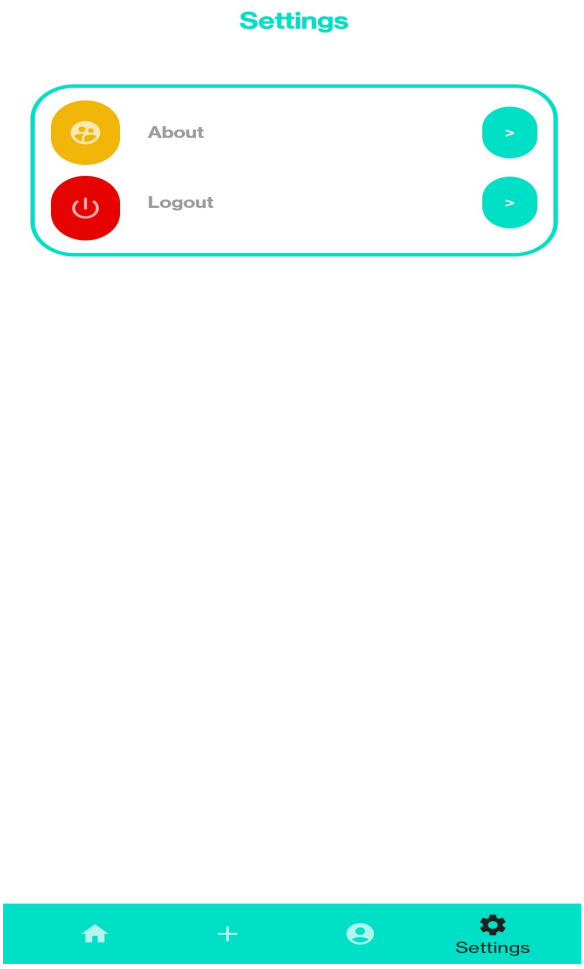


Figure 5.6: Settings page

The above figure is the page in the application where the users can log out from their respective sessions.

Chapter 6

Conclusion and Future work

Worker Hiring Application stands as a revolutionizing element in the sphere of recruitment. They act as a communication bridge between applicants and recruiters facilitating their requirements. This application helps users to have a greater exposure to the candidate pool and also work seekers facilitating wide search of work matching their interests. The android application provides flexibility to the work seekers to view the openings and applied jobs without the need to carry a laptop. This application provides an enhanced user experience for both employer and work seeker. It provides user friendly interface which facilitates in reaching wide range of audience.

This project fulfills the primary requirements of the work seekers and recruiters. It can be extended in several ways. We can provide recommendations and email updates for new work postings based on the work seeker application history. Since, the work seekers might be interested in building a strong Resume, we can provide tips and information for the same.

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