# Project Proposal

# For

# Job Surfer

**Submitted by**

**Kumail Raza, SP20-BCS-045**

**Sabih Ul Hassan, SP20-BCS-114**

**Department of Computer Science, CU, Islamabad.**

**8 January 2022**

# Table of Contents

**Project Category: (**Select the major domain of proposed project**)**

○ **A-**Mobile Application/Information

# Abstract

Looking for jobs on multiple websites, keeping their track, posting ads on different websites, addicting them etc. can be very difficult and can cause problems. These difficulties and problems can be dealt with, by using Job surfer. Job surfer is a mobile application. It that allow applicants to search, view and apply for jobs. Applicants can keep track of where they have applied. Employers can post, delete job advertisements using this app. Applicants and employers can change their profiles, as they grow with time. For this project, Job surfer will be hosted on a local device. This software will be providing applicants, and employers with all sorts of jobs and applicants at the same place. The process model used in this project will be modified waterfall model, and the design process will be object-oriented approach.

# 1. Introduction

In this modern era of internet, almost everything can be done using the internet, and searching and applying for jobs is one of the many things we can do using the internet. The users can search for desired jobs on the internet, can easily access the job adds, job opening etc. Even though, the internet can allow us to access ads and apply from our palm, keeping track of multiple files websites, where we have applied can be an endeavor. Likewise, people can also post ads on the internet, but posting ads on multiple websites, keeping track of them, and editing them on different location isn't easy. Due to these reasons, a need such software arises, that will allow people to view, apply, and search for from a single point. And allow employers to post ads on a location, where they can see ads. Job surfer is a software that provides solution to these problems, along with many other features, making things easier for the people.

## 1.1 Skills
Skills I will learn from the project are as following

**Skill-1: Mobile App Development**
> In this project, we will learn about the concepts of mobile app development to develop a mobile app

**Skill-2: Non-relational Database**
> In this project, I will learn about the concepts of non-relational database to store data.

**Skill-3: Relational Database**
> In this project, I will learn about the concepts of relational database to store data.

## 1.2 Related System Analysis/Literature Review

Related System Analysis is as below

**Table 1: Related System Analysis with Targeted Project Solution.**

| Application Name | Weakness | Proposed Project Solution |
|---|---|---|
| • Freelancer www.Freelancer.com | • Users can't post/apply for part time or full-time jobs.<br>• Freelancers need to pay a portion of their income to the website | • Users can post/apply for part time or full-time jobs.<br>• Freelancers won't need to pay; in case they get a job |
| • Indeed www.Indeed.com | • Users can't post/apply for freelancing jobs | • Users can apply for/post free lancing jobs |

# 2. Proposed System

This application will allow users to search for jobs on a single place, they won't have to go multiple websites. This will also save them from the problem of keeping track of multiple profiles. Users can view, for which jobs they have applied, user won't have to manually keep track of jobs he has applied for. If user gets the job, he will be notified on his profile, so if some contact information was wrong, by mistake, he will still get a response. The companies can keep track of the job openings – all; freelancing, part time and full time – along with the people that have applied for the jobs, view their profile, all at a single place.

# 3. Advantages/Benefits of Proposed System

The advantages are as following

- Users can keep record of the jobs they have applied for.
- Companies can search potential employees for a job.
- Users can get the response against their application, regardless of the authenticity of the contact information
- Users can find all types of jobs on this application i.e., freelancing, part time and full time.
- This application will be free.

# 4. Scope

Job surfer is a mobile application. Applicants, looking for jobs, can search for many jobs on a single place. It will make things easy for them by saving their time and effort. It will allow applicants to search for different job opening. Applicants can apply for different jobs, remove application from jobs, view jobs they have applied for and receive response against their application. Users can also create and edit profiles, and view and open notifications. Employers

can create and delete, edit job ads, along with accepting and declining application. Admins can view profiles of the users and can delete them.

# 5. Modules

Modules of the system are as below

## 5.1 Module 1: Applicant Mobile App

This module will give applicants the ability to edit their profiles, along with viewing their profile. They can see what jobs are available. View the list jobs they have applied for. Applicant can apply for different jobs, can cancel his applications, thanks to this module. It will also allow applicant to view the response of the applications.

### 5.1.1 Functionalities

- Login
- Search job ads
- View Applications
- View notification
- View profile
- Logout
- Apply for Ads
- View ad details

## 5.2 Module 2: Admin Mobile App

This module will allow Admins to add new admins and remove admins. Admins can see, and delete user profiles

- Login
- View Job Ads
- View Profile
- View Employers
- View Applicants
- Logout

## 5.3 Module 3: Employer Mobile App

This module will give employers to view the list of posted jobs advertised. They can also add, delete job advertisements. They can also view applications against a particular job.

### 5.3.1

- Login
- signup
- Search applicants
- View applicant profile
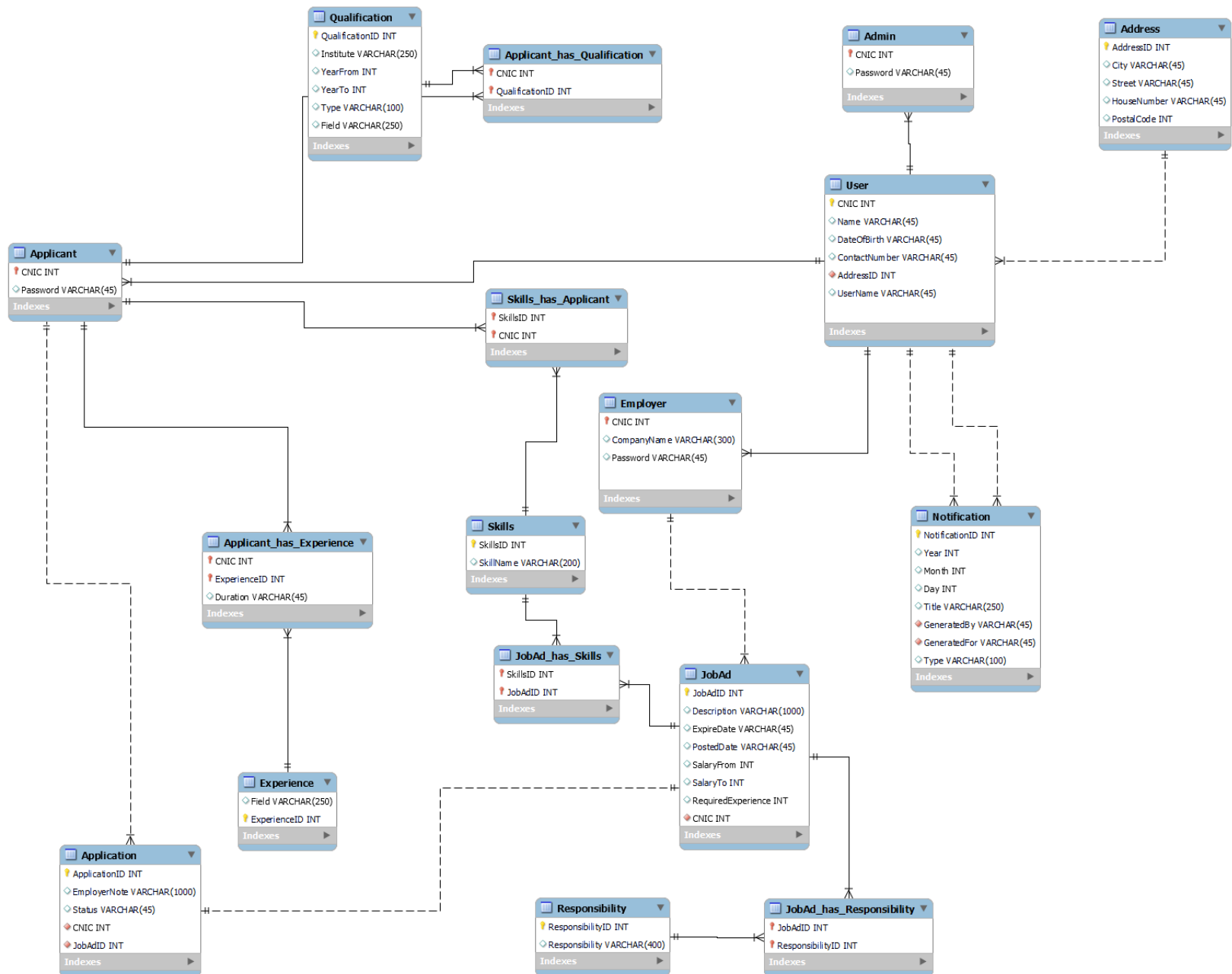- View Applications
- Respond to applications

- Add job ad
- Remove job ad
- Edit job ad
- View notification
- View profile
- Edit profile
- Logout

# 6. System Limitations/Constraints

Limitations are as following

1. Couldn't implement show notification, as soon as there is a notification inserted in the DB, because of the limitations of dart, when used with MySql
2. Didn't implement upload/update image, because the server only allows 5MB of space

# 7. Logical ER Diagram

# 8. Tools and Technologies

Tools and Technologies used are as following

| Tools | Version | Rationale |
|---|---|---|
| Android Studio | 2021 | IDE |
| MySQL | 5 | DBMS |
| MS Word | 2015 | Documentation |
| Dart | 6.0 | Programming language |
| SQL | 5 | Query Language |
| MySQL workbench | 8.0.2 | Visual Database tool |
| Flutter | 2.2.3 | Mobile APP Development |
| MongoDB | 5.0.5 | DBMS |

# 9. Conclusion

In this document, I have discussed about what my project is, what problems it will be solving, how solving those problems can be beneficial for us, stockholders, and work division. It also covers the functionalities, advantages of this project, along with the tools that are required, what process models and design model we will be using, the limitations and scope of the project.

# 10. References

1. Wikipedia contributors. (n.d.). *Indeed*. Wikipedia. Retrieved October 30, 2021, from https://en.wikipedia.org/wiki/Indeed

2. Wikipedia contributors. (2021, October 8). *Freelancer.com*. Wikipedia. Retrieved October 30, 2021, from https://en.wikipedia.org/wiki/Freelancer.com#cite_note-about_freelancer.com-1
.