



Development of Native Mobile Application Using Flutter for JSP and Some Glimpse of Cross Platform Apps

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Abstract: It's an online Job Search Platform, a platform through which job campaigners can register and apply for jobs. Through this job portal employers can also post their jobs and review operations. The traditional reclamation systems are time taking and expensive. Previously candidate used to find jobs through announcements, council expositions, job expositions etc., and the employers must put by important trouble to find the right seeker for a vacant position. This operation addresses similar failings and is a accessible platform for both job campaigners to find and apply for jobs on this job portal and for employers to post jobs and review operations with important ease. Campaigners can search for jobs in any field through advanced Search capabilities. They can upload their resumes to this Platform which is stored for unborn use also. Employers can download these users resumes and post/ delete job positions. The admin controls this job portal and makes all the necessary decision about companies and jobs that can pierce/ appear in this portal. Campaigners and Employers can use this Platform without any geographical hedge, from any part of the world. This Platform is also developed by using some slice- edge technologies that are in great demand in the IT industry at the moment. Some of them are flutter and firebase.

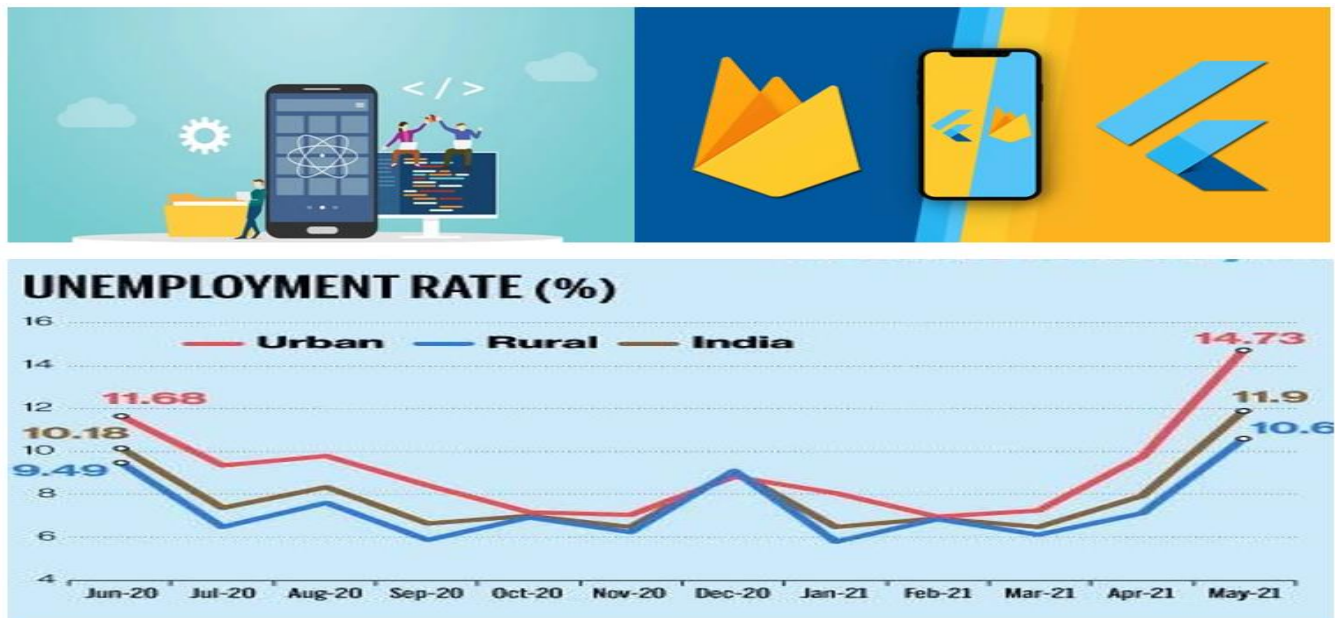
Index Terms - Flutter, Firebase, Android/IOS, Real time database

I. INTRODUCTION

Job Search Portal is a flutter Application, which serves jobseekers to find available job vacancies and Employers to identify eligible job campaigners with the prospect of opting the most of good campaigners. The only way to elect best-good seeker is to have a pool of eligible aspirants, which is possible by drawing the interest of individualities in the request. Job Hunt doors stylish serve this purpose. E-recruitment has come the standard means for employers and job campaigners to meet their separate objects. The traditional styles for reclamation include Job expositions, University career employment services, Hand referrals, advertising in the journals, boxes etc. With the advancement in technology and growth of internet operation, thee-recruitment has revolutionized the way associations hire and campaigners search for jobs. With the Online Job hunt doors, the reclamation process is speeded up at every stage from job bulletins, to entering operations from campaigners, canvassing process. The cost of searching/ advertisement jobs will be much lower compared to the traditional way of advertising. Job hunt gate stands as an effective means for Employers to outline the job vacancies, liabilities and qualifications to attract jobseekers. Using the portal jobseekers can considerably search for jobs in companies, associations and regions they may else haven't learnt. In addition, Campaigners/ Employers can write a review about an association, which might help them to change the way effects are done. in leading journals to complete their grades. In addition, the published research work on job portal also provides a big weightage to get admissions in reputed varsity.

Motivation:

In addition these days we should make use of technology to solve real life problems people face in day to day life. With Indian youth's more exposure to internet we thought we should present more and more opportunities present in job market to them by developing application which will connect them to employers. According to BusinessToday.in unemployment rate in India increased from 10.18% to 11.9%. Though part of them lack in skills required for the job, many students/job seekers don't know about these opportunities and hence they don't apply to positions. It also frustrates small scale employers as they find it hard to get the perfect candidate. We are developing application so that employers can post jobs/internships and can connect with local as well as nearby students, job seekers. It has been found in past that people get scammed on other apps hence we make sure both employers and opportunity seeker is verified account. As more and more rural as well as urban youth will get practical knowledge it will help them achieve financial stability and better citizen resulting in country's rapid economic growth and development.

**II. PROBLEM STATEMENT**

To eliminate traditional method and speed up the recruitment process, also to bridge the communication gap between employers and applicants, develop a flutter application that will provide opportunity to both employers and applicants where employers can post new opportunities of jobs/internships ,view job applications, recruit new employees in their organization/company and applicants can apply to jobs/internships according to their skill by reviewing information posted by employer and uploading resume.

III. PROPOSED DESIGN

Job Search Portal is developed to provide an effective means for the employers to post job openings with required qualification to have a better penetration into the job market and jobseekers to find out the information regarding the current openings in the organization. In addition, Employers can view the reviews provided by the applicants to make necessary improvements in their system if needed. Job search portal is application providing flexibility for the users.

Objective:

The objective of the web as well as application is to provide flexibility to the jobseekers by providing the functionalities of both job search and job application in a single application. In addition, this application provides an effective means for the employers to post job vacancies and view the job applications by the interested applicants in a single application. Employers can also view the reviews provided by the jobseekers

General Description:**Overview:**

Student/Job seeker and Employer will login to app with OTP verification to make sure user is certified. Employer will create opportunity of internship by mentioning requirements such as no of vacancy, type of internship, information about company and internship/Job and who can apply to it. Eligible students/Job seeker will upload resume and can get interview call from employee. Application can host virtual interview. After successful hiring opportunity will be closed.

Objective of User:

To find internship, Job on a platform by applying suitable filters.

Features of User:

To search and apply for internships/Jobs from different domains by applying filters. To check status of ongoing applications and to view old applications to make changes in application if needed.

Benefits of User:

Students, Job seeker find it hard to get internship, Job and hence lack practical experience. Most of the times after extensive search on websites probability of getting one internship is very less as these platforms are very crowded. Some students might even find it hard to search because of complex interface. App provides very user-friendly interface which makes it very easy to go through all opportunities. They can apply filters which makes it less time consuming, effective and provides flexibility. App can arrange virtual interview in case student can't give interview physically. It also keeps track of old application which helps student in identifying mistakes in their application and they can make changes for further applications. App connects students to local market which helps both sides.

Objective of Employer:

To create internship, Job opportunity on platform by mentioning information about company and internship/Job, number of vacancy, type of internship, stipend, skills required and who can apply to it.

Features of Employer:

To create opportunity on platform. To view already created opportunity and applicants who have applied to it. To review and shortlist applications. To make changes in created opportunities if necessary. To close the opportunity after hiring is done.

Benefits of Employer:

Intern is very integral part of the market and lot of the times employer is unable to connect to students/Job seeker. Internet is blessing as well as curse since many times employer waste their time reviewing unworthy application and pool of talent remains untapped. This app let the employer arrange interviews too. Since this app is going to develop on both android and iOS number of active users will increase.

IV. SYSTEM ARCHITECTURE:

Fig. System Architecture

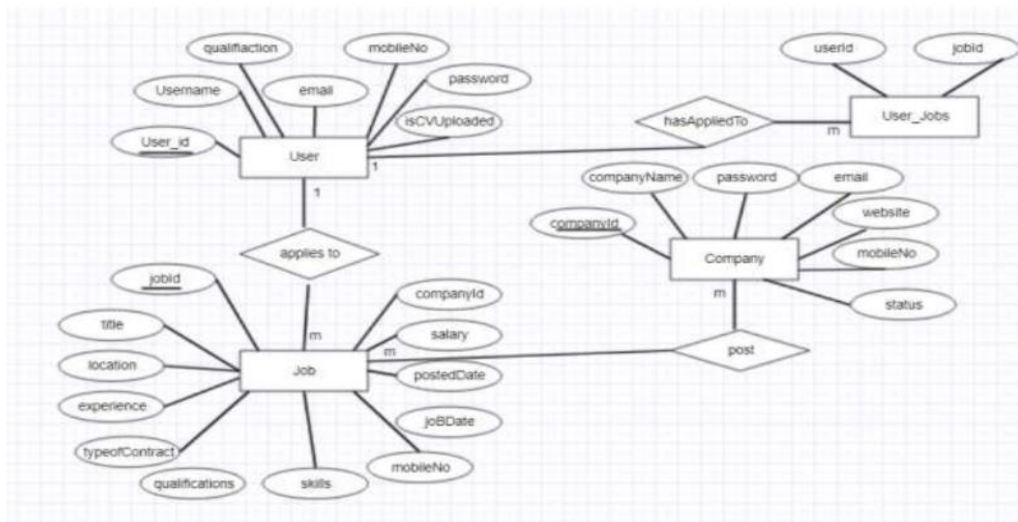


Fig. Class Diagram

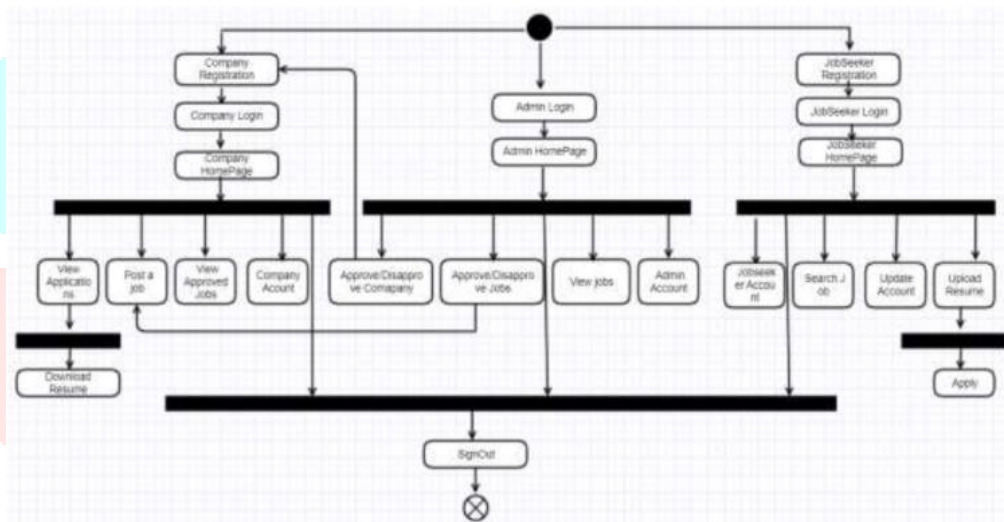


Fig. Process Flow

Use cases:

we have identified a set of use cases based on the functionalities and goals of the application.

- Register Account- Employer and Jobseeker to register with the application on the job search portal.
- Login- Employer and Jobseeker to login into the job search portal.
- Activate/De-activate Account- Admin to activate or de-activate the Employers on the job search portal.
- View Employers- Admin to view the Employers that are registered with the application on the job search portal.
- Add Job Vacancy- Employer to post a job vacancy on the job search portal.
- Activate/De-activate Job Post- Employer to change the status of the Job Post on the job search portal.
- View Applicants for a Job Post- Employer to view the list of applicants for a particular job post on the job search portal.
- View Reviews- Employer to view Reviews provided by the applicants on the job search portal.

- View Job Posts- Employer to view all the jobs posted by the Employer on the job search portal.
- Search Job Posts- Jobseeker to search available and active jobs on the job search portal.
- Apply for Job- Jobseeker to apply for an available job vacancy on the job search portal.
- Add Reviews- Jobseeker to add Reviews for an organization that can be viewed by the Employer on the job search portal.

V. CONCLUSION:

The Job Search Portal stands as a revolutionizing application in the sphere of recruitment. They act as a communication bridge between applicants and recruiters facilitating their requirements. The job search portal helps organizations to have a greater exposure to the candidate pool and also jobseekers facilitating wide search of jobs matching their interests. The application provides flexibility to the jobseekers to view the job openings and apply to jobs without the need to carry a laptop. This application provides an enhanced user experience for both employer and jobseeker. It provides user friendly and interactive interface which facilitates in reaching wide range of audience. The job search portal has achieved all the requirements that were initially defined in the requirements gathering phase. This project taught us some best practices in the technology stack like flutter, firebase, Android development, RESTful API. Starting from requirements elicitation to design, construction, implementation and testing, we have gained a very good experience working with various technologies at every phase of the development. Development of this project (Job search portal) boosted my confidence in mobile and web development.

VI. FUTURE WORK:

This job search portal fulfills the primary requirements of jobseekers and employers. Job search portal can be extended in several ways – We can provide recommendations for new jobs and email updates for job openings based on the jobseeker's interest. Since, jobseekers might be interested in building a strong resume, we can provide tips and information for the same on the job portal. We can also provide templates for building the resumes on the job portal which might interest most applicants. The mobile application of job search portal is developed to fulfilling the functionalities of jobseekers and also it can be extended to support functionalities of employers as well.