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Job Board Mobile Application Using React Native

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Abstract: *The job market has become increasingly competitive, making it crucial for job seekers to have access to information about available positions at all times. Searching for jobs on the career pages of various recruiters is a time consuming process. In this research paper I propose the development of a mobile application where users can browse through multiple job openings from different companies and navigate directly to the job application page. This process saves a lot of time for the job seekers. The cross-platform development process using React Native makes the application compatible with both android and ios.*

Key Word: *React Native, Mobile Application, Job Portal, Android, IOS*

I. INTRODUCTION

Traditionally, job seeker would search for job opportunities in newspapers, job fairs, and other offline channels. However, with the rise of the internet, job portals have become a popular tool for job search and recruitment. These portals provide a platform for job seekers to find job opportunities and for employers to advertise job openings and find suitable candidates.

React Native is a popular framework for developing cross-platform mobile applications. It allows developers to create high-quality, user-friendly applications that can run on both Android and iOS devices. In this proposed application, job seekers will be able to search for available positions, view job listings, and apply for jobs directly from their mobile devices.

Overall, our proposed job board mobile application using React Native has the potential to greatly improve the job search process for job seekers, making it faster and more convenient to find available positions and apply for jobs.

II. ARCHITECTURE

The system has three major components admin application, database, end-user application.

a. Admin Application

The admin application has two different modules Add New Jobs and Manage Jobs. Only the admin has access to this application. All the details of the job are uploaded to the database by the admin through the admin application. Admin can view and manage the job listings through this app.

b. Database

The database used is the Firebase Firestore Database. Which is a no-sql database developed by the Google. All the data about a job post like name of the company, location, job role, qualification, salary, job description, link to the recruiters page are stored in the database along with a unique id for each job post. The Firebase Firestore delivers data dynamically in real time. So, the user need not refresh the application every time a new job is posted.

c. End-User Application

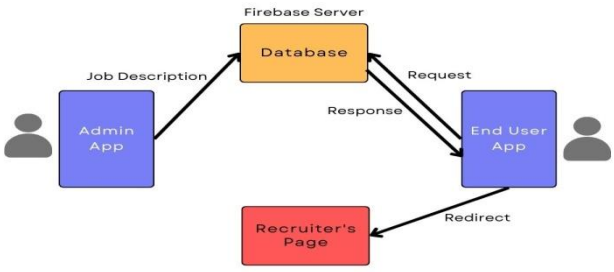

Figure 1 Architecture

End-user application has only one module, which is View Job Listings. The users can view and apply for the jobs. Immediately after the user opens the app, it sends a request to the server requesting all the available jobs with all the details. Upon receiving the response from the server the data is sorted based on the latest job posts and displayed to the user. If the user clicks on any of the job they are interested in the user will be redirected to the recruiters page. Where, user can fill the details and apply for the job.

III.MODULE DESCRIPTION

a. Admin Application

i. Add New Jobs

The admin can add new jobs to the list. This module has various fields like job id, company name, job role, location, qualification, salary, job description, link to recruiter's page. These must be filled by the admin while uploading a new job. After filling the data the admin will submit the data to the database using the Firebase's API. Upon successfully submitting the data to the database, the Firebase server will send a success message back to the admin application which is displayed as a toast to the admin.

ii. Manage Jobs

There might be instances where admin have entered incorrect data and has submitted to the database. This module displays all the available job listings to the admin with edit and delete functionalities. The admin can edit a specific field of the listed job or delete the whole job post.

b. End-User Application

i. View Job Listings

All the available jobs are displayed to the user in a list view. The user can view and filter the job listings according to their preferences. All the details about the job are available to the user based on the filters applied by the user. An "Apply Now" button is provided at the end of each job post through which the user can navigate to the recruiter's page and apply to the job by entering all the required information.

IV.CONCLUSION

In conclusion, the development of a job board mobile application using React Native has shown to be a viable and efficient solution for job seekers. The use of React Native allows for a seamless user experience across multiple mobile platforms, and the ability to easily implement features such as job search filters enhances the functionality of the app. Additionally, the use of Firebase's Firestore as a database ensures the real time serving of the data to the user. Overall, the proposed job board mobile application using React Native has the potential to greatly improve the job search process for job seekers, making it faster and more convenient to find available positions and apply for jobs.

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