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Dynamic Online Job Portal using MERN Technology

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ABSTRACT :- Now a days, most of the people uses technology for leading their lives and managing their daily needs. In this era, most of people are using websites or web-application for searching jobs[1]. We have developed a platform by using MERN stack technology. The components of mern stack are MongoDB, Express.JS framework, React.JS library, Node.JS platform. This application is fully functional with different aspects for candidates and recruiters. By using this platform, we can find all kind of part-time jobs and we can choose any kind of job based on our interests. In this paper, we can post various jobs or delete them. We have developed administrative functions for this application like the dashboard, and manage roles for recruiter and candidate with resume builder. For users, they can quickly apply for the job, as per qualification recruiter can hire them.

KEYWORDS*: -* JavaScript, Framework, Library, React.js, MongoDB, Node.js, Express.js, etc.

I. INTRODUCTION

We all know that technology has become an indispensable part of our daily life. If we see most of the people are showing interest in finding jobs online. Many people don't know where are the requirements and for which job roles. In our country, people are not aware of part-time jobs as compared to other countries so this application will help to know about part-time jobs. For instance, there are job vacancies for some part-time job roles but people could not reach on time, so he lost that chance will be a bad experience for him/her. By encountering all the problems of offline part-time job searching creating a platform is necessary for searching for a part-time job. We all know that there are many online applications and websites to find a job for graduates but there are few applications that help to find part-time jobs for college students, senior citizens, housewives women, students, working professionals, teachers, freshers, beginners, retired persons, teenagers, and so on. This application will help people to find all kinds of online and offline part-time jobs without investment. The MERN stack is regarded as one of the most dominant technology stack that is used to shape a full-stack application.

It expands as follows: - MongoDB: - For Database: A document-based database.
Express.js: - For back-end: A server-side JavaScript-based web application framework
React.js: -For front-end: A client-side JavaScript-based web application framework
Node.js: -For server-side runtime environment: It is a JavaScript-based server-side runtime environment.

II. LITERATURE SURVEY

Sr. No	Title	Author Name	Year	Publication
1	Effectiveness of online job recruitment system	Mary Grace, G. Ventura and Rex P. Bringula	2013	International journal of computer science
2.	Entity Name Recognition in job Posting and Resumes	Sedu Kul, Ahmet Sayar	2021	International congress on human-compurt interaction and robotic application
3.	A web application for geographically distributed multiple clients	Vivek Kumar ,Sehgal AkshayJagtiani, Meha Shah, Anupriya Sharma, Arpit Jaiswal and Dhanjay Mehta	2013	First International Conference on Artificial Intelligence, Modelling and Simulation.
4.	Improving the accuracy of job search with semantic techniques	Malgorzata mochol ,holgerwache and lyndonnixon	April 2017	Conference paper
5.	International Web Application for skill development amd job application	G.AdilineMacriga;J.ArunaJasmine;V Vijay Babu;N Mohamed Sayhanuddin	2021	4th International Conference on Computing and Communications Technologies (ICCCT)

III. PROBLEM STATEMENT

To design and develop an dynamic job portal which implement a portal for part time job by using MERN stack.
Goals and objectives
The main objectives of developing this system are:
1. We are creating a hire portal by using a using MERN stack is an Abbreviation for a complete collection of certain frameworks utilized to develop an entire dynamic web project.
2. Helping people for searching part time jobs. Who want to work 3-4 hours a day any be financially independent.

IV. MOTIVATION

Because of Covid Use of technology rapidly increase. People prefer the things online than offline.
To finds jobs online is more easy than offline, and convenient. Part time jobs is one of the convenient way to earn money. It will helps students to find part time jobs related to their skills where they can enjoy the work and earn money. It related to other housewifes, workers too.we can gain more confidence.

V. PROPOSED SYSTEM

The MERN.js is designed or developed to make a vigorous framework that allows developers to use efficient practices while they are working with the popular JavaScript components, which in turn helps in supporting usual

development needs, and solving common issues by connecting to MongoDB, Express.js, Node.js, AngularJS frameworks. The whole application is going to be built on a NodeJS platform which is the runtime environment of JavaScript.

- ReactJS is a client-side application that is in HTML. So, at first, the client's request is processed.
- After that, the client request then enters the server (Node.js). Node.js acts as a server-side language written in JavaScript.
- ExpressJS then makes the request to the database.
- After receiving a request, MongoDB then retrieves the data and returns the response back to the ExpressJS.
- The response from Express.js is sent back to the Node.js, after which it is forwarded to the ReactJS by Node.js for displaying the final result

VI. ARCHITECTURE OF PROPOSED SYSTEM
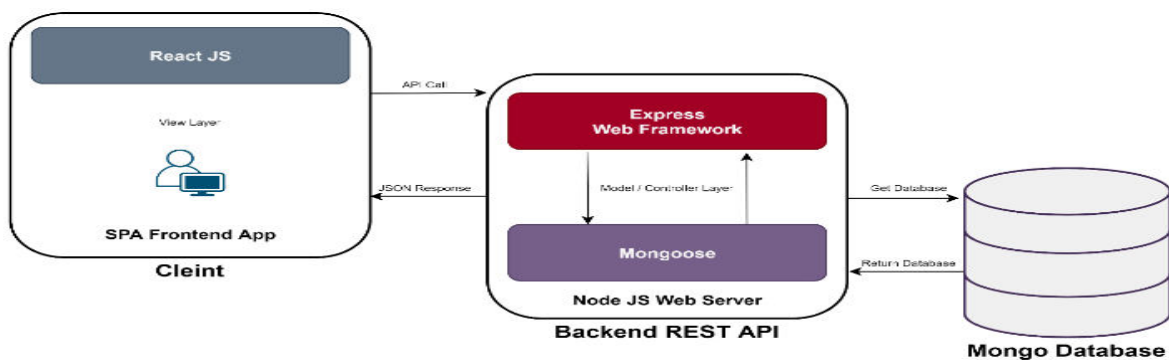
Fig 1: Architecture of proposed system
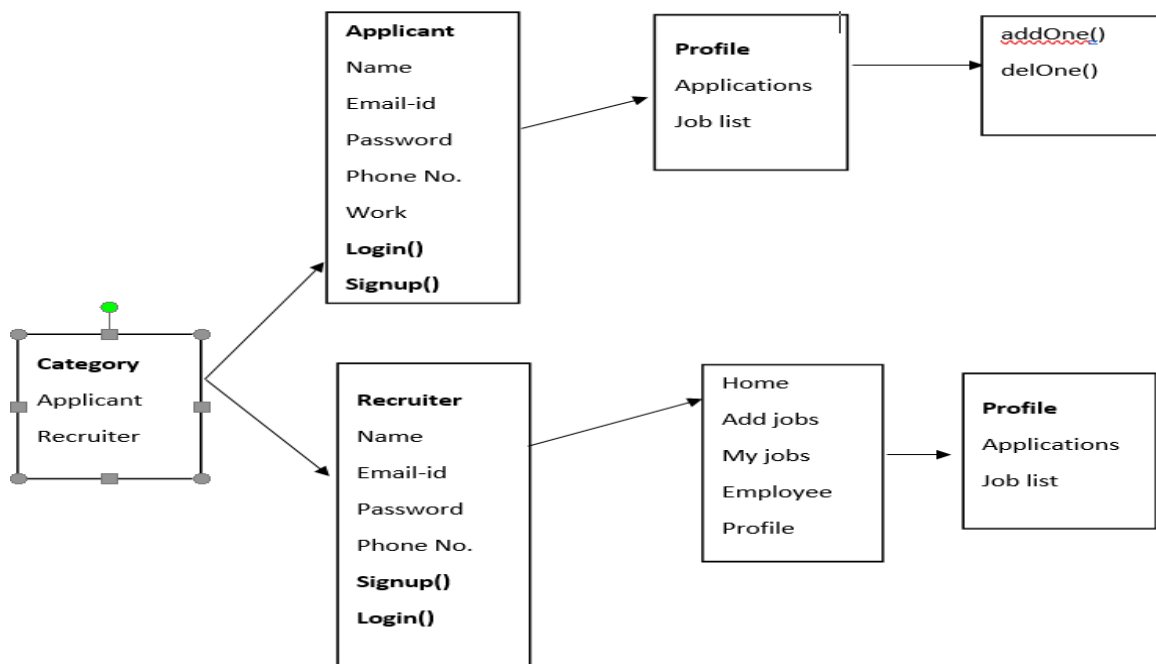
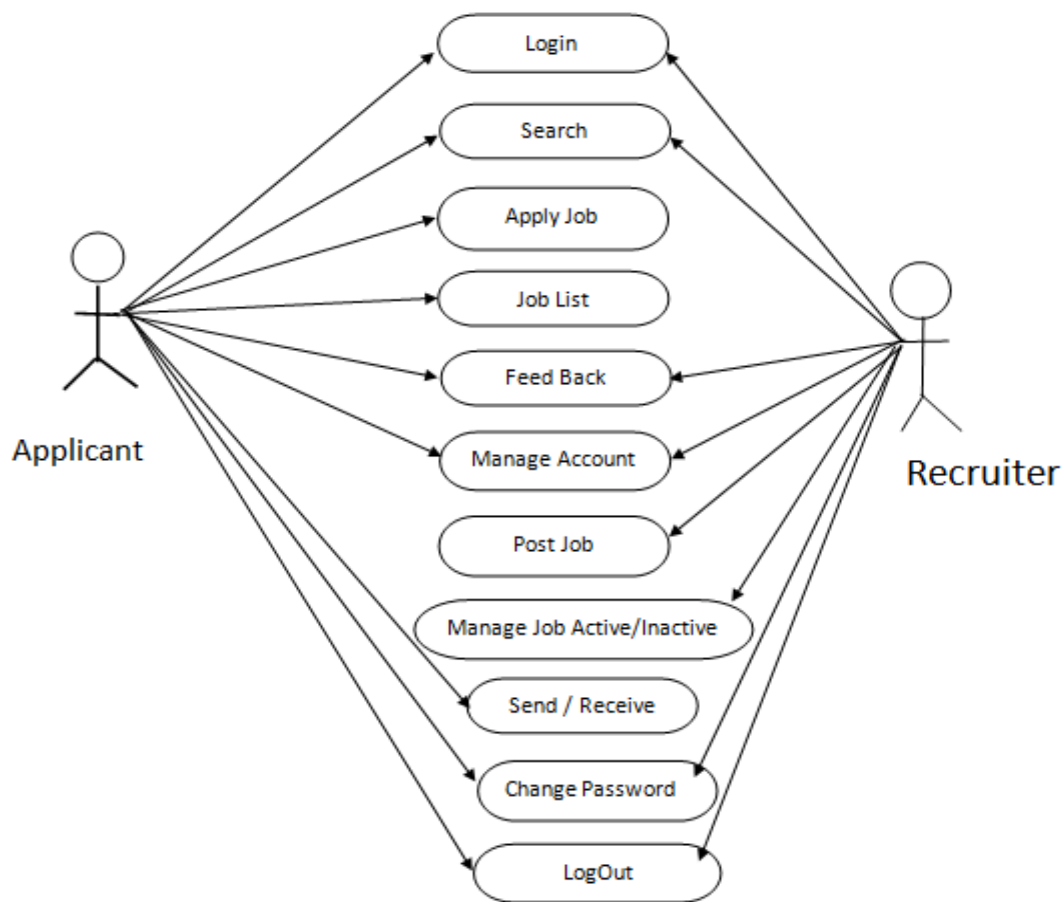## VII. CLASS DIAGRAM

Fig 2 :Class Diagram

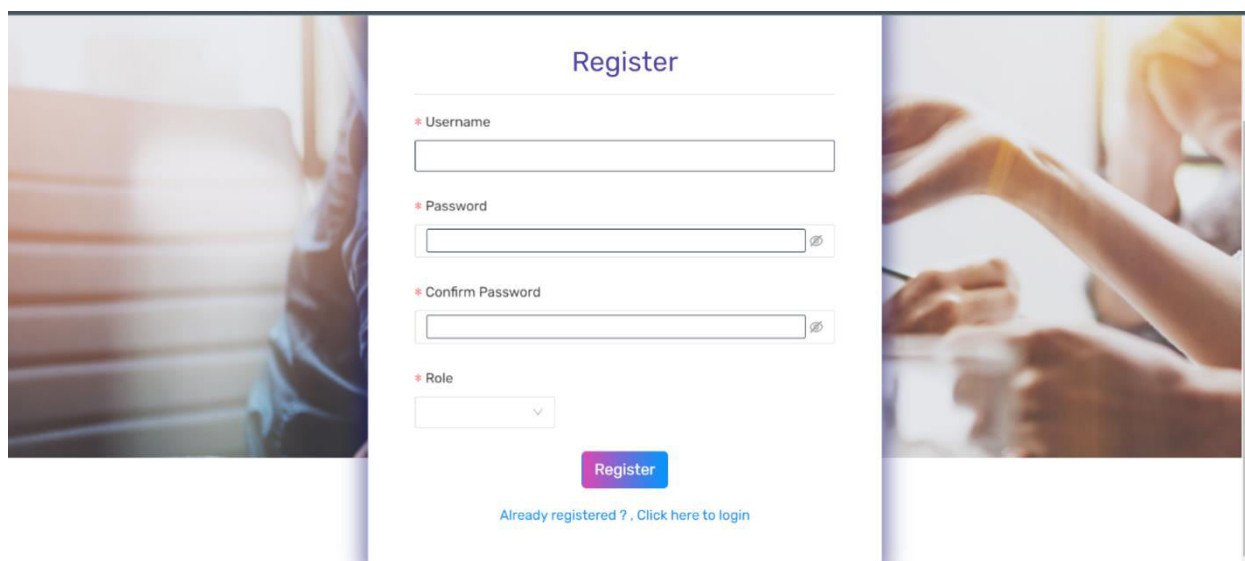## VIII. USECASE DIAGRAM

Fig 3:Use case diagram

IX. RESULTS

Fig 4: Registration Page

Fig 5: Resume Building

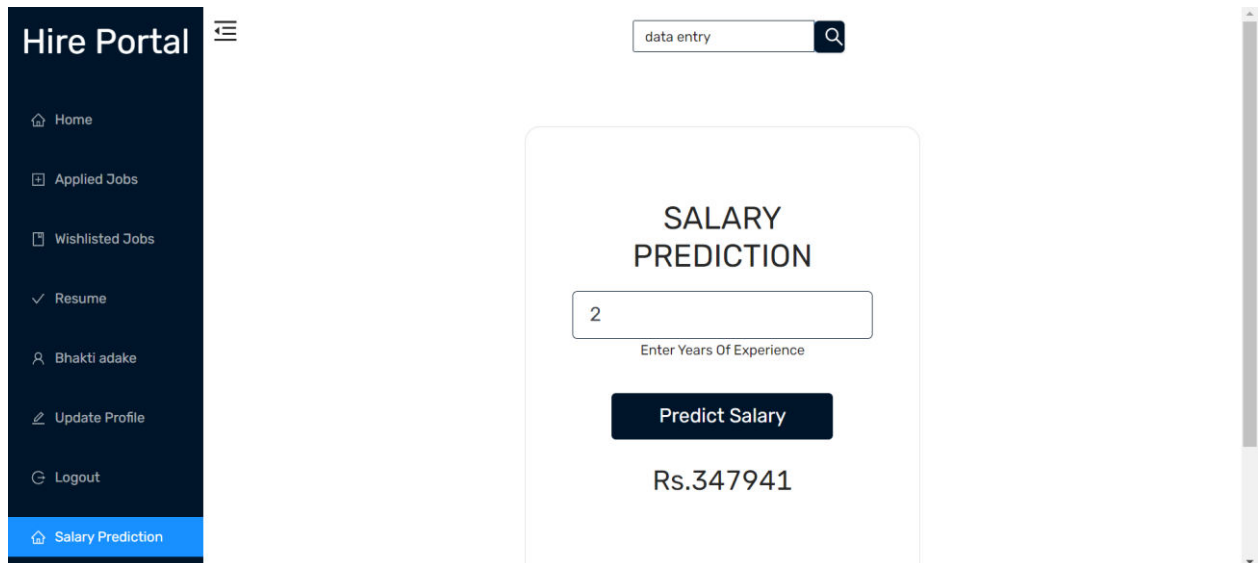Fig 6: Wish listed Jobs For Applicants

Fig 7: Salary Prediction

X. CONCLUSION

This system has been developed successfully incorporate all the requirements.Appropriate care has taken during database design maintain database integrity and to avoid redundancy of data. This project was intended to help tackle the part time job search issues among the youth by means of providing an online recruitment Portal. The findings from the pilot study show that there is a demand for such system. This site was developed in such a way that any further modifications needed can be easily done.

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