DESIGN AND IMPLEMENTATION OF AI BASED FREELANCE PLATFORM

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Abstract - Freelancing is bringing about a paradigm shift in the way people work globally, especially due to Covid. Workers are not encumbered by one company. More important, this helps achieve a better work-life balance. With more than 8 million people out of a job in India due to Covid, freelance is a great way for workers to get back into the job market. The Indian and global labor force is rapidly moving towards freelancing, especially now when workers are getting used to working from home. Since This data driven web application provides the basic cross platform portal for Hiring, working and taking the corporate work or business work or any other professional work beyond walls

*Key Words***:** Entrepreneur; freelancer; contractor; boundary- less worker; portfolio-worker

1.INTRODUCTION

A freelancer is a self-employed person who offers services to clients. These services often, though not necessarily, are offered to businesses through the proliferation of sharing economy platforms like TaskRabbit, Mechanical Turk, or Upwork. However, individuals can offer their services directly to clients, without third-party resources that often take a cut of the pay Nearly every type of service needed by a business can be provided by a freelancer.

Some of these workers are full-time freelancers; others are still holding down a 9-5 job but doing side hustles in their free time. The proliferation of such part-time and freelance work has people talking about a new kind of labor market: The Gig Economy.

If you are interested in joining the gig economy and earning money outside the context of a full-time job, you'll have to understand the many advantages and disadvantages of this type of income generation. Taxes will be different for you; you may need some basic accounting skills; and you'll need to rearrange your lifestyle to accommodate working in this manner.

2. LITERATURE REVIEW

The necessity for research in AI is being motivated by two factors that are (i) to give the new entrants into the AI field an understanding of the basic structure of the AI literature (Brooks (2001), Bamberger and Lavrac (2002), Kim (1995), Kim and Kim (1995), Patel-Schneider and Sebastiani (2003) and Zanuttini (2003)). As such, the Literature there discussed here answers the common query, "why must I study AI?" (ii) the upsurge of interest in AI that has prompted an increased interest and huge investments in AI facilities.

A. Problem Formulation

The Web Applications or the modern generation distributed software's which provides software as a service architecture faces lack of modern implementations over the traditional approach of static web apps or web services

The today's arena faces lack of employment issues with this aspect enterprises face the issue of providing reliable solutions for the clients and employees, the major issues with

the traditional approach of company and vendors businesses.

B. Objective

Here we present the modern approach for the web application to implement huratics searching techniques to build an intelligent architecture to process a large-scale data set and provide optimal solutions or recommendations to the client.

The first main objective is to develop a web application which provides modern User interfaces and reliable user experience for naive users or clients who have no technical knowledge. The other objective is to provide human resources from remote places.

Providing an all-in-one integrated environment for the clients to showcase their services and talents, work on our platform and generate revenue from the services or from products. Developing the tools for various remote areas. It will also improve the energy efficiency of the people.

3. PROPOSED SYSTEM/METHOD

All paragraphs must be indented. All paragraphs must be justified, i.e. both left-justified and right-justified.

A. Main Module Description

    1) *Freelancer:*
The Freelancer is nothing but the Worker in the web application. The user/Freelancer will register on the web application and create the user id and password for the gain of further services. The customer can directly use the services with the help of id and password.

Freelancer Module contains the master table with the company name, city and Email and below the master table there is link to the freelancer registration along with the Login module which is common to all the main three users of the platform

further by login to the platform by the freelancer takes to the menu section or dashboard for the freelancer
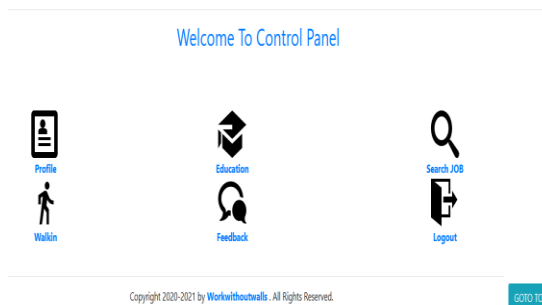

Fig-1: Freelancer Dashboard

here in fig no 1

i)profile module

the following Entries are available in the profile section this section is common to Employer also Employer as well as Admins can view the profile module for the verification of freelancer

Table -1: Posted job

Name:	name of candidate
Address:	address of a candidate
City:	city of candidate
Email:	mail for communication purpose
Mobile:	contact number of freelancer
Highest Qualification:	skills or certifications
Gender:	male/female
Birth Date:	personal info

Resume:	cv or other certificates to be uploaded

table1.profile module data

ii. Education module

The definition of a module is a standard unit of measurement in building planning, or a detachable part of a whole, or an independent unit that is part of a whole. **When a fence has six-foot lengths, each six-foot length** is an example of a module.

In this module freelancers can create entries for the qualification section of freelancer.

ii. Search job

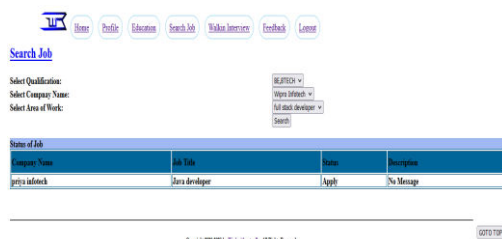**Fig-2***:* Search module

- Select Qualification:
- Select Company Name
- Select Area of Work

These are the three Entries for a search module required to search for available works on the platform.

After this all the list of available jobs along with the available job role is displayed and user can apply for the job by using the apply link

iv. walkin

walkin section available for an freelancer who want to work in the office environment since some company prefers the walking verification since the walkin module provides that facility for the freelancers and jobseekers

v. feedback

This is another common module for freelancer for purpose of future enhancements users can use this module to share the issue on the platform they face and contact directly to the admins for fixation of problem in the system

v. logout Module

The logout module destroys the active session of a freelancer; this is a common module for the Client as well as admin.

2) Employer

Service provider is the Employer module in web applications. The Hire module and Employer module in web applications provide a facility to use the various services for Hiring. The Hire module provides the various services and provides the freelancer related to the job. In this module the various sub modules are present; these help in any type of the Utility.

- Home
- Profile
- Manage Job
- Manage Walkin
- Application
- Logout

These are the available menus for the Client Dashboard

i)manage job:

Table -2: Posted job

Id	Job Title	Vacancy	Qualification	Description	Delete

6	Java developer	1	BE	job role: java Developer	Delete
Total 1 Records					

here in the Manage job module client can post a project as a job along with entries and the database saves a project as per the table 2 and display on the manage job module

i)manage walkin:

Posted Walkin

Table -3: walkin post

Id	Job Title	Vacancy	Qualification	Description	Date	Time	Delete
3	node js developer	2	btech	immediate requirement	2021-08-18	09:00:00	Delete
Total 1 Records							

3) Admin

The admin module is using the authentication and authorization of the database in this web application. The admin module should be adding the services completely related to the web application. This module Manages this web application. The registrations for the freelancer are done by the help of the admin module. The updating and the deletion of the data in the database, this process is done by the admin only. The admin maintains the whole web application and updates the web application.

B. Methods

Freelancing is bringing about a paradigm shift in the way people work globally, especially due to Covid. Workers are not encumbered by one company. More important, this helps achieve a better 2
work-life balance. With more than 8 million people out of a job in India due to Covid, freelance is a great way for workers to get back into the job market. The Indian and global labor force is rapidly moving towards freelancing, especially now when workers are getting used to working from home. India represents the second-largest market for freelancing, with 15 million freelancers. McKinsey, a leading consulting firm, estimates that the Indian Freelance market will grow to $30 billion by 2025, and predicts that half of India's population will freelance in the next few years. While freelancing is on the rise, there is a huge need to address the problem of efficient match-making between companies and freelancers, using digital technology and artificial intelligence. Digital platforms can help companies connect with the best freelancers, enable them to manage individual freelancers or a team of freelancers, make payments easily and provide feedback, all in one platform. India must focus on promoting such digital platforms.

C. Project Planning and Scheduling

Project planning establishes a plan for the software engineering work that follows. It describes the technical tasks to be conducted, the risks that are likely, the resources that will be required, the work product to be produced, and a work schedule. Project scheduling is an activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks. It is important to note that the schedule evolves overtime. During early stages of project planning, a macroscopic schedule is developed. This type of schedule identifies all software framework activities and the product functions to which they are applied. As the project gets under way, each entry on the macroscopic schedule is refined into a detailed schedule. Here, specific software tasks (required to accomplish an activity) are identified and scheduled.

D.Scope

The scope for online freelance job opportunities is immense, because it offers a win-win situation for both the client and the service provider. Freelance job opportunities have never been very easy and reachable as they are now. Initially it may be slower to earn online, but there is a rising scope of getting income consistently from online jobs.

Almost all the companies have made their presence online. It Provide the destiny to work For a Particular Job or Task So That The reference is to be Accomplished and all the Task are to be of the Clients see the result and provide a Particular new Task according to that Field for wider reach among people all over the world. Internet technology has become a perfect medium for online business opportunities.

4. TESTING

Software testing is a critical element of software quality assurance and represents the ultimate review of specification design and coding. Testing is an exposure of a system to trial input to see whether software meets the correct output. Testing cannot be determined whether software meets a user's needs, only whether it appears to conform to requirements. Testing can show that a system is free of errors, only that it contains error. Testing finds errors, it does not correct errors. Software success is a quality product, on time and within cost. Testing can reveal critical mistakes. Testing should therefore be Test Objective There is strong evidence that effective requirement management leads to overall project cost savings. The three primary reasons for this are, Requirement errors typically cost well over 10 times more to repair than other errors.

Requirement errors typically comprise over 40% of all errors in a software project.

Small reduction in the number of requirement errors pays big dividends in avoided rework costs and schedule delays.

1.Unit Testing:

1.In unit testing Module is tested separately and the programmer simultaneously along with the coding of the module performs it.

2. In unit testing the analyst tests the programs making up a system. For this reason, unit testing is sometimes called program testing. Unit testing gives stress on modules independently of one another, to find errors. This helps the tester in detecting errors in coding and logic that are contained within .

2.System Testing

1. This is performed after the system is put together. The system is tested against the system requirement to check if all the requirements are met and if the system performs or is specified by the requirements.

2.Testing is an important function to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct, the goal will be successfully activated. Another reason for system testing is its utility as a user-oriented vehicle before implementation

System Testing Consists of Following Five Steps:

1.Program Testing.

A program represents the logical elements of a system. For a program to run satisfactorily, it must compile and test data correctly and tie in properly with other programs. It is the responsibility of a programmer to have an error free program. At the time of testing the system, there exist two types of errors that should be checked. These errors are

a) Syntax error

Programs are invariably related to one another and interact in the total system. Each program is tested to see whether it confirms to related programs in the system. Each part of the system is tested against the entire module with both test and live data before the whole system is ready to be tested

b) Logic error

A logic error, on the other hand, deals with incorrect data fields out of range items, and invalid combinations. Since the logical errors are not detected by the compiler, the programmer must examine the output carefully to detect them. When the program is tested, the actual output is compared with the expected output. When there is a discrepancy, the sequence of the instructions must be traced to determine the problem. Breaking the program down into self- contained portions, each of which can be checked at certain key points, facilitates the process

2.String Testing.

3.System Testing.

4 User Acceptance Testing.
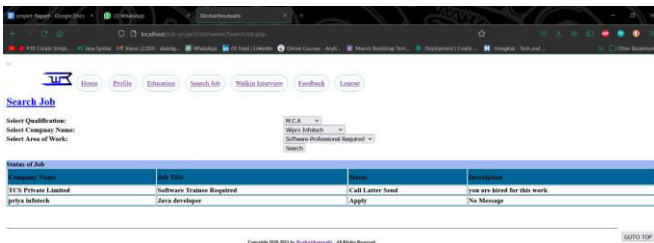
5.Acceptance Testing.

5. RESULT

Fig-3*:* Job Search

In This Figure it has shown the Job Searches in our Website Every day. The people Find for the job and according to it. They do Their Work. With Specific Requirements. To Accomplished There needs and Skills to specific Organization.
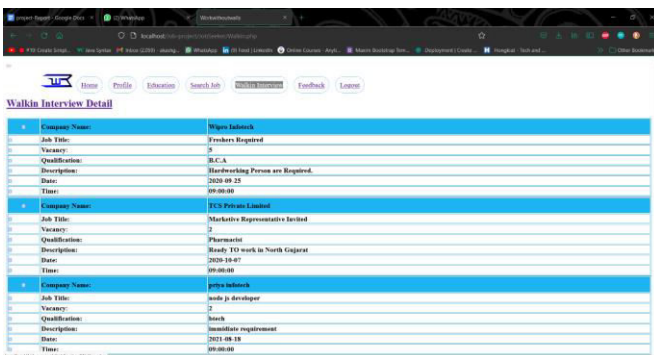

Fig-4*:* Walkin Interview Details

In This is Figure Walkin interview is present which represents The Particular data to be held or shown by the candidate to be interviewed. such type of scenario is present in it. Therefore, The candidates are present.
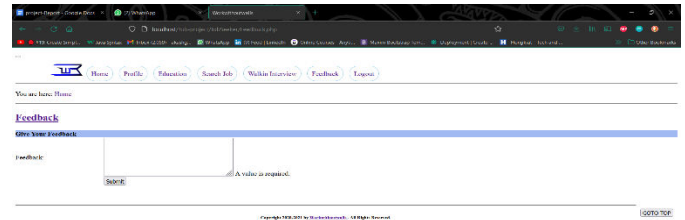
Fig-5: Feedback Form.

In This Figure the Feedback Form is present that will show the fill the feedback about a particular topic in this walk Interview, employee or shows overall skills .
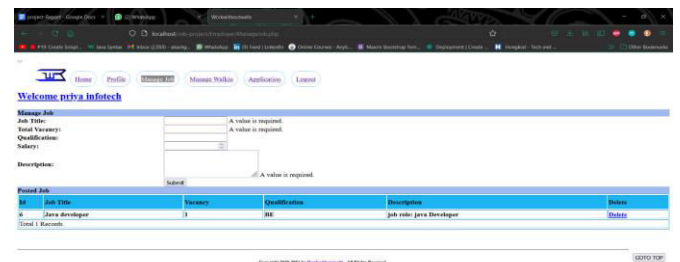

Fig-6: Employee Details

In This Figure There is a Details Given About Employee to know about the performance of a topic and so on. Employee. Details are shown as follows to make task readable and writable. ton accomplished that.
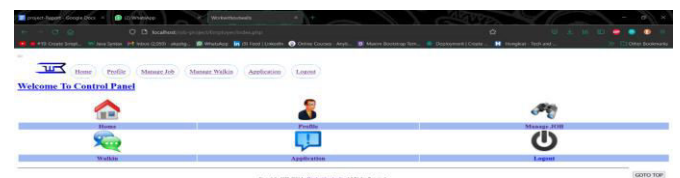

Fig-7: Control Panel

In This Control Panel Menu All the controls Regarding the Application are shown. If we Want to Go to the Home the Home Option is Given. If we Want to Go to the Application, the Application Option is Given. If we Want to Go to a Walkin the Walking Option is Given. If we Want to Go to the Profile, the Profile Option is Given.

6. CONCLUSIONS

Freelancing is regarded as a fairly simple activity to start, it still requires a lot of skill, dedication, and experience to run successfully. Getting your first client as a freelancer might take a while, but with the appropriate steps put forward, you can do this in a short time. Becoming a freelancer might be an easy thing to do, but you still need to offer your best to land clients for yourself.

The work industry has experienced a great number of disruptions. Freelancing is one of many. However, the idea of freelancing seems to be taking a lot more steps and with time, will become the backbone of the work industry since this project provides the better platform for the routine activity of freelancing with better gui.

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