FREELANCING PORTAL

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A major project report submitted in partial fulfillment of requirements for the award of Degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE AND ENGINEERING

By

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(Affiliated to JNTUA, ANANTAPURAMU)

2022- 2023

CERTIFICATE

This is to certify that the major project work entitled '*FREELANCING PORTAL*' *is a bona fide record of work carried out by*

CHAKALI MADHU (199X1A0543)

Under my guidance and supervision in fulfillment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING

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<u>DECLARATION</u>

      I hereby declare that the project titled **"FREELANCING PORTAL"** is the authentic work carried out by us as students of **G. PULLA REDDY ENGINEERING COLLEGE (Autonomous) Kurnool**, during 2022 – 2023 and has not been submitted elsewhere for the award of any degree or diploma in part or in full to any institute.

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ABSTRACT

This is a digital marketplace that will connect talented professionals with economic opportunities and give organizations access to affordable and low risk human capital. We can access a larger talent pool from around the world, which allows us to find the specific talent. Freelancers can deliver high quality work due to their past work portfolio to make sure they are the right fit. By successfully completing your project, freelancers build their reputation, expand their portfolio, and increase their chance of future employment. Freelance platform defines two communities, Employer and Freelancer. Employers post the project with all necessary details and upload it within minutes. Now freelancers browse apt projects and bid for it. After freelancer completed the project based on the winner selected by employer, employers accept that completion and release the payment. As well as employer can hire the freelancer. Technologies used in developing the frontend and are JavaScript, Boostrap, and PHP. We connect backend with MYSQL, PHP using XAMP control panel as local server.

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INTRODUCTION

1. INTRODUCTION

1.1 INTRODUCTION

Freelancing is doing specific work for clients without committing to full-time employment. Freelancers often take on multiple projects with different clients simultaneously. An individual who makes money on a per-job basis is a freelancer. They usually earn on a per-task basis and generally work for a short time. With freelancing, the client pays per project, per task, or per hour, depending on the agreement. Freelance projects typically involve short-term assignments, although satisfied clients often request follow on work. Most freelance jobs are available in the skills, service, and creative sectors, such as copywriting, programming, engineering, and marketing.

Most of the people over the world choose their employment as freelancing, why because people can choose from do many reasons to start their own business that it would be impossible to list them all. Be your own boss, the most common reason for starting out as a freelancer or entrepreneur is the ability to be your own boss. No more working with control freak management, no more being clocked in and out of the office, no more getting told off for being late you are the master of your own ship, and that's a great way to feel. Being your own boss is the top reason to start your own business. It can mean becoming a self-contained, one-person company. Happily, the work that you do under this new system will take a skill that's so close to your nature that you'll see work and being a boss in an entirely new way.

Freelancers have lots benefits and in their work environment. The end of office politics have a horrible habit of making people miserable. Many employees say that it's the worst bit of their job, having to play for favour between competing managers or competing teams. You are in control, freelancers and entrepreneurs make their own decisions. Freelancers work on their favour project and choose the projects what they want to work on. Most of the people in the world earn more money in freelancing instead of employing. Freelancers get money based on the efforts he put it on the project.

Freelancing Management System, is a cloud based workforce solution that empowers business to manage independent contractors from a single platform. By leveraging this technology, organizations may be able to identify qualified freelancers. Automate onboarding processes. Verify skills, credentials and qualifications. Freelancing platform get benefited bu both employers and freelancers. After registration of both people, if the employers want to

hire a freelancers, he need to pay some percent of fee to the freelancing portal and at the same time freelancers also chargeable for every new bid. The freelancing portal get benefits from both sides. The website gives the all requirements to thee users. The portal has choice manages the all things in website like removing freelancers and employers from the website and removing projects and new technical domains and projects into the website working on the same concepts like freelancers.com, upwork, fiverr…etc.

In freelancing portal we combine both talented freelancers and employers at the same place. So, we develop a website and it has three panels admin, freelancer, and employer. Employer can post the project in to the website and freelancers can able to bid for the project. Admin can manages the both employers and freelancers works as administrator. Admin has permission to add new technologies and domains. Admin can also permission to remove or add either freelancer or employer. In order to develop this projects there is lots frame works and web technologies. The technologies used in the project are HTML, CSS, JAVASCRIPT, BOOSTRAP, PHP, and MYSQL. For the application design we use frontend technologies are HTML, CSS, JAVASCRIPT, and BOOSTRAP. For backend connectivity we use technologies are PHP, MYSQL.

In order to run the freelancing portal, we need to install the XAAMP Control Panel. XAAMP is a open source cross platform web server solution stack package developed by apache friends. The website run on the local server. XAAMP Control Panel is a management tool that offer to supervise the actions of individual components of XAAMP.

1.2 CONTRIBUTION OF PROJECT

1. One of the most difficult parts of coming to the devising process was learning how to constructively working in the group over a long period of time.

2. We three of us gathered together and shared some ideas. From all of these ideas we finalized Freelancing Portal as a major project. We thought this project will have great scope in present and future trends.

3. In order to gain skills to this project we began working on web technologies. When we face any challenges while developing the project we shared our knowledge to overcome the challenges.

4. At some stages we shared our work based on knowledge to overcome the challenges. At some stages we shared our work based o knowledge in particular work.

1.3 HIGHLIGHTS OF THE PROJECT

1. Freelancing portal, which is digital market place that will connect talented professionals with economic utilities give organizations access to affordable and low risk human capital.

2. It combines all freelancers and employers to complete the work. We introduced three panels in the website, those are admin, freelancer, and employer.

3. Employers can able to post a work or project and freelancers can able to bid for the project. The admin can works as a mediator and manages the website.

4. In this website, we filter the all fake freelancers and employers when the user in process of registration by validating their skills and experience.

5. The freelancing portal need to change the some amount to both employer and freelancer on every project. In order to develop this project we use web technologies like HTML, CSS, JAVASCRIPT, BOOSTRAP, PHP, and MYSQL.

1.4 NOVELTY

A freelancing management system is a game changer for hiring managers, who no longer need to waste valuable time evaluating each freelancer across different marketplaces. With a freelance management system, you'll have full visibility into your extended workforce and gain the tools you need to build an elite talent roster, seamless, automated onboarding and offboarding. Freelancer platform are places where you can earn money for yourself, rather than for a particular company. It enables freelancers to search for wide range of jobs. By registering on the freelancing portal, the freelancers works with the skills of his choice. The freelancers can improve their own skills. Employer will complete any type of work in the portal. The freelancing portal can benefit from both sides freelancers and employers. Employers need to pay some fee to the portal for posting the project and freelancers also able to pay fee to portal. In order to develop this portal we use different type of web technologies.

1.5 MOTIVATION

- The main motivation is to develop the freelancing portal that will be helpful in the real time environment.

- The freelancing portal, which are used in the many countries and anyone can register in the portal.

- The freelancing portal, which is reduces the unemployment, improve the skills of a persons and work on their own specialized skills.

- This platform not only helpful for the unemployed people it is also helpful for the people who want to earn money.

1.6 ORGANIZATION OF THE REPORT

Report includes the stepwise implementation of the working model that is developed and it describes the overview of how effectively the project can be implemented and makes the viewer of the report to get an overview of the project.

➢ Chapter one includes project introduction, motivation, objective of the project.

➢ Chapter two includes project software and hardware specifications.

➢ Chapter three includes the existing system and the drawbacks of the existing system and the proposed system.

➢ Chapter four includes design and analysis which gives description of key parameters & functions, methods of implementation, source code.

➢ Chapter five includes conclusion and future enhancement of the project.

SYSTEM SPECIFICATIONS

2. SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS

➢ Processor: intel i3

➢ RAM: 4GB

➢ Hard disk: 40 GB or above

2.2 SOFTWARE SPECIFICATION

➢ Operating System: Windows

➢ Web technologies or Frame works: HTML, CSS, JAVASCRIPT, BOOSTRAP

➢ Backend Connectivity: PHP

➢ Database Connectivity: MySQL

➢ Local Server: XAAMP CONTROL PANEL

LITERATURE SURVEY

3. LITERATURE SURVEY

3.1 INTRODUCTION

A Freelance Management System (FMS) is a cloud based solution that enables companies to manage their freelance and contingent workforce efficiently. This study is related several streams of literature at the intersection of operations management and online platform analytics, including online outsourcing platforms, quality assurance mechanism in online marketplaces, and buyer determined auctions.

1. The freelancer conceptual review says that, freelancing is the high level of employment isolated environment, Sains Humanika, Research Gate, 2014. This paper provides a detail review of conceptualization of a freelancer, describing its history, jobs, earnings, top hiring, freelancer countries, popular websites those serves as broker between employer and freelancer. The literature review shows that the freelancing is rooted back to 1970s and started growing continuously since 1980s. The empirical evidence shows that freelancing is still considered as a new and different area, researchers and policy makers may explore it further.

2. The freelancing is new workforce says that, freelancers are in all technologies, domains and 50% of people doing freelancing in us, Danial J Edelman, A National Survey of new Workforce, America, 2014.

3. Online Freelancing website says that, almost every freelancer earn more money and knowledge compare to employment, IJSRCIT, 2021. Freelancing is used for a person who is self-employed and not necessarily committed to a particular employee long-term or no need to work in an office. In freelancing contain different types of fields, professions, etc. where freelancing is predominant include computer programming, web design, web development etc. It helps to improve technical skills and leadership management skills.

4. In Kenya, there is a large number of professionals complaining that they cannot get jobs and companies also claim that they are struggling to find skilled professionals. It can be looks like chicken and egg problem, jobs require experience and professionals require jobs to get experience. To overcome this problem, a freelancing marketplace can be used. To review related marketplaces built for use in Europe and the USA. Then identify their strengths and weaknesses.

5. Crowdsourcing of jobs to online freelance markets is rapidly gaining popularity. Most crowdsourcing platforms are uncontrolled and offer freedom to customers and freelancers to choose each other. This works well for unskilled jobs with no specific quality requirement since freelancers are functionally identical, IEEE INFOCOM, 2015.

6. Freelancing Remote Job websites is a comparison of online freelancing platforms and these sites boost the software industry revenues in unprecedented way and reason for forming many "Nano Companies", Fathima Thabassum N, Research Gate 2021. Since mid-nineties began a new dawn in employment avenues by the arrival of low cost Internet broadband technologies and enterprise capabilities of highly powerful yet cheaper computers, this gave birth to a new virtual job model called as "Remote work", "Hiring on Demand" or "Crowd sourcing". A number of companies have mushroomed under the umbrella of Remote Work model. The online remote job sites look after their work reporting, billing computation and compensation of the wages.

7. Freelance income survey says that, almost people get projects through the online and income satisfaction is more, Melisa Sukman, Payoneer empowers global commerce, 2005. Melisa helps to grow the global Payoneer community, educate Payoneer customers about our services, and empower them to build a successful future. Survey results are based on the responses of a total of 23,006 freelancers worldwide through an online questionnaire commissioned by Payoneer during November and December 2014. The analysis is based on all survey answers between $1 at the lowest hourly rate and $100 at the highest.

8. Freelancing Employees during covid-19 pandemic says that, some machine learning techniques used to extract the data, Jaspal Kaur, International Journal of Creative Research Thoughts (IJCRT), 2022. This study shows how COVID-19 pandemic change brings new aspects in online job opportunities. These changes to uncertain market of labour workforce are managing the balance between the work and family status. India has become 7th largest in freelancing work. This paper finding suggest that part time and freelancing is providing flexible time to employees. We have seen increase in the percentage of working women doing freelancing and work from home.

3.2 PROPOSED DIAGRAM

The fig 3.2 shows the workflow of freelancing portal.
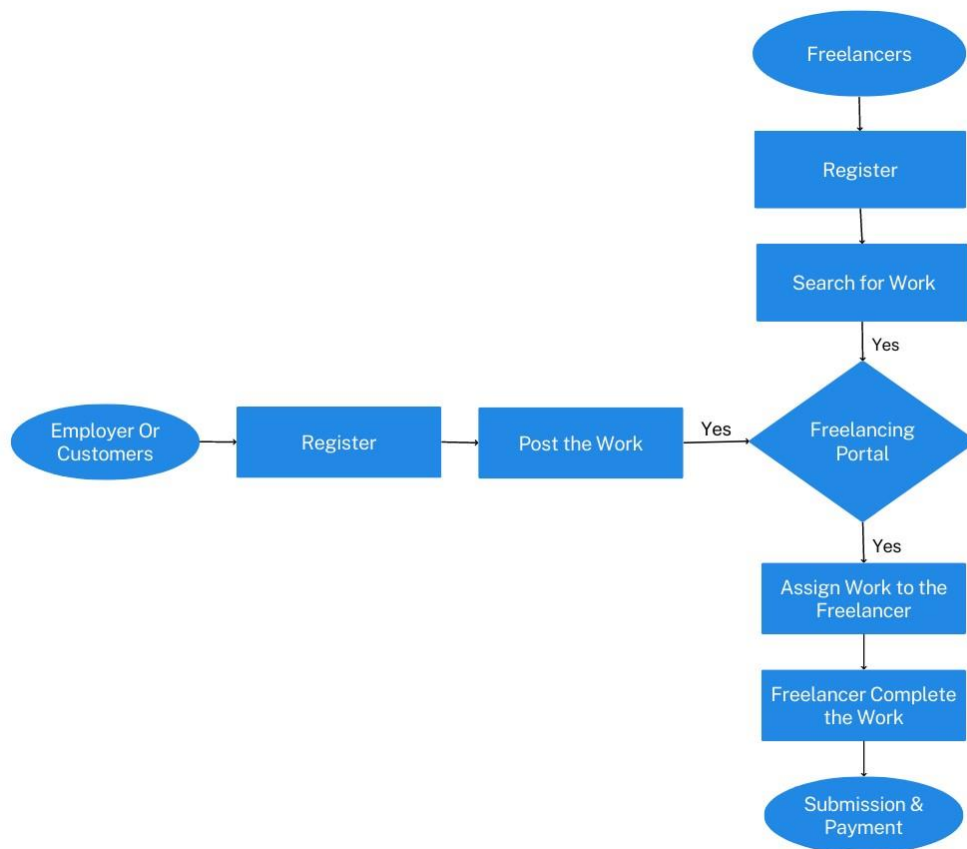
Fig.3.2 Workflow of Freelancing Portal

3.3 EXISTING SYSTEM

Freelancer is a marketplace where employers and employees are able to find each other. The site allows employers to post work for site members who place bids in a competitive tender process. Freelance platforms help companies find and hire independent professionals for temporary job roles or special projects. These platforms offer a marketplace for businesses to browse profiles of freelancer candidates based on skills, experience, location, or other criteria. When the internet is evolved over the world, these online works get more beneficial. Thorough the freelancing website the employers finish their project or job in the within budget and time. We have some freelancing website which more consistence and get more freelancers and employers in the website.

1. Freelancing.com

2. Fiverr

3. SimplyHire

4. WorkPerHour

5. FlexJobs….etc.

The main agenda of these freelancing websites are to combine the both freelancers and employers at the same place to complete the work each other. An individual who makes money on a per-job basis is a freelancer. They usually earn on a per-task basis and generally work for a short time. In simpler terms, they do not work for a firm. According the journal survey of America, in every country there is one freelancing portal work for the unemployed people. The freelancers can charge for entire job or project at a time or he can charge hourly basis for the given project. Above all the websites work on the same criteria but there is some difference between the internal to the website. For example Freelancing.com website, which is entirely work on the assigning a projects to the freelancers and freelancers get bid amount to the project after completion and some other websites like SimplyHired, in this website the freelancers not only get the projects but also they have chance to hired for the companies on basis of their experience and skills. Freelance websites are places where you can earn money for yourself, rather than for a particular company. It enables freelancers to search for a wide range of jobs. If you are a beginner, then freelancing websites are an easier way to earn money online. Your client can set funds aside for later payment once you have completed the project. The payment, called a Milestone Payment, can also be released to you by your client for every task met. Also, every Milestone Payment comes with an invoice which you can use for tax purposes.

In freelancing website can register both fresher with low profile and also experienced persons in the website. Actually at every prospective of the website there less chance to get projects to the fresher. The employees mostly prefer the experienced freelancers to complete the work and there is some employees they want to take risk and complete the work at low bid amount rise by the freelancers.

3.4 PROPOSED SYSTEM

Freelancing website, Freelancing portal, which is digital market place that will connect talented professionals with economic utilities give organizations access to affordable and low risk human capital. The main of our project is to combine both talented freelancers and employers at the same place. So, we develop a website and it has three panels admin, freelancer, and employer. Employer can post the project in to the website and freelancers can able to bid for the project. Admin can manages the both employers and freelancers works as administrator. Admin has permission to add new technologies and domains. Admin can also permission to remove or add either freelancer or employer. Actually in every freelancing website there is no restriction for the freelancers whether he or she fresher or experienced one, there is chance to register and explore their knowledge in the website, but due to this there is chance to have some problems with fresher with lack of experience. In some case some of the employers are rise their problems to the website to incompletion of the project or submission of the project not in within time, so there website responsibility to solve the issue.

There is chance to rise problem not only the freelancers side it may cause problem by employer side also. So we come across a simple prototype which is validate the user it may freelancer or employer when he is in the process of registration. We add feature, there is admin who gives permission to allow the user into the website by analysing user details.

DESIGN AND IMPLEMENTATION

4. DESIGN AND IMPLEMENTATION

4.1 INTRODUCTION

Software Requirements are the starting points of the software developing activity. As system grew complex it became evident that the goal of the entire system cannot be easily comprehended. Hence the need for the requirements phase arose. The software is initiated by the client's needs. The SRS is the means of translating the ideas of the minds of the clients (the input) into a formal document (the output of the requirement phase). To develop this freelancing portal we need both frontend and backend technologies.

Frontend Technologies

- HTML

- CSS

- JAVASCRIPT

- BOOSTRAP

- JQUERY

Backend Technologies and Database

- PHP

- SQL

Server

- XAAMP Controle Panel for Local Server

HTML

HTML (Hypertext Markup Language) is a text-based approach to describing how content contained within an HTML file is structured. This markup tells a web browser how to display text, images and other forms of multimedia on a webpage. HTML is a text file containing specific syntax, file and naming conventions that show the computer and the web

server that it is in HTML and should be read as such. By applying these HTML conventions to a text file in virtually any text editor, a user can write and design a basic webpage, and then upload it to the internet.

CSS

CSS (Cascading Style Sheets) is used to style and layout web pages, for example, to alter the font, colour, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features. CSS is the language for describing the presentation of Web pages, including colours, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language. It is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes. HTML is only give structure to the website and CSS gives the beauty to the website. We can implement CSS in three different ways inline CSS, internal CSS, and external CSS.

JAVASCRIPT

JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else. JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat.JavaScript is **a** programming language used primarily by Web browsers to create a dynamic and interactive experience for the user. Most of the functions and applications that make the Internet indispensable to modern life are coded in some form of JavaScript. The primary use of JavaScript is to build web-based applications. Some of what JavaScript can do for the web includes: adding interactive behaviour to web pages like zooming in and out or playing audio/video. Creating web and mobile apps, the most popular examples consist of the likes of Netflix and Uber. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user.

BOOSTRAP

Bootstrap is a free, open source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs. The main advantage of the boostrap is Fewer Cross browser bugs. A consistent framework that supports major of all browsers and CSS compatibility fixes. Lightweight and customizable. Responsive structures and styles. CSS and Bootstrap are free, front-end development frameworks designed to help developers build websites faster and easier. Major differences are that W3. CSS is a less widely used framework that only uses CSS, while Bootstrap is a more widely used framework that uses CSS and JavaScript.

JQUERY

jQuery is a lightweight, "write less, do more", JavaScript library. The purpose of jQuery is to make it much easier to use JavaScript on your website. jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code. jQuery is a JavaScript framework designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. We use jQuery instead of CSS because, the best way to do this is to reduce the size of your code. If your site is coded with an HTML and CSS base, you can easily make uniform adjustments to your code that will reduce the size. Like CSS, jQuery files are generally stored separately from the Web page itself.

PHP

PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data. PHP is known for its simplicity, speed, and flexibility features that have made it a cornerstone in the web development world. The key advantage of PHP (with which most languages can't compare), is that it loads websites extremely fast. It's also easy to use, it's scalable, it's got a great community, and it's free.

SQL

SQL is used to communicate with a database. According to ANSI (American National Standards Institute), it is the standard language for relational database management systems. SQL statements are used to perform tasks such as update data on a database, or retrieve data from a database. SQL is also used for accessing, maintaining, and manipulating already created databases. SQL is a well built language for entering data, modifying data, and extracting data in a database. In this project we use phpmyadmin for database management. We perform the all actions on phpmyadmin.

XAAMP CONTROLE PANEL

XAMPP provides a Control Panel for efficient management of the software in the XAMPP package. You can use the Control Panel to determine whether Apache and MySQL are currently running and to start or stop them. Before you can use your development environment, Apache and MySQL must be running. The goal of XAMPP is to build an easy to install distribution for developers to get into the world of Apache. To make it convenient for developers, XAMPP is configured with all features turned on. You can use the XAMPP Control Panel to start/stop all server and also install/uninstall services. The XAMPP control panel for start/stop Apache, MySQL, FileZilla & Mercury or install these server as services. It is used for testing the projects and modifications offline before launching it on the global web. One such very important functionality provided by XAMPP is the creation of the MySQL database.

phpMyAdmin is a database management tool for MySQL compatible databases. The current version of phpMyAdmin, at the time of this recording, supports MySQL 5.5 or later. If you're using MySQL 5.0-5.4, you need to use phpMyAdmin 4.0. The current version of phpMyAdmin also supports MariaDB 5.5 or later. Localhost is useful for software testing and security purposes independent of a larger network. Using a localhost server means that you can store an infinite number of websites at no extra cost. Experimenting and testing. The localhost behaves as a **local server** that allows you to host a program or application on the local machine by providing a network interface without having the physical networking resources.

4.2 STEPS INVOLVED IN PROJECT

1. Freelancers and Employers are both need to register in portal.

2. Employer post a job or project with all necessary details in portal.

3. Freelancers search for the job based on their skill set.

4. Freelancers apply for the job posted by the employer.

5. Employer assign a project to the freelancer.

6. Freelancer complete the work with all requirements.

7. Submission and payment.

In freelancing portal, according to the step 1 the both freelancers and employers are register in the portal otherwise they are unable to process the things. In 2 step, the employer the post the job or project with all necessary details in the portal. In step 3, the freelancers search for the job on their skills set who register in the portal. After that the freelancer apply for the job which is poste the employer. The freelancer and employer will communicate through the phone call until the project comes to end. Freelancer complete the work which is given by the employer with all the requirements that the project need. At the end of the project the freelancer submit the work to the employer and get payment from the employer.

The freelancer submit the project to employer with all necessary details and if the employer will satisfy with the things can be help in the project which is developed by the freelancer, for that the employer will give the rating for that. The freelancing portal get benefit from the both employers and freelancers by charging the amount for the maintaining the account and finding the projects.

This name was given because freelancer have no boundaries to get jobs, the client may belong to any part of the world. Most of the jobs done online, one computer with webcam and high speed internet connection is sufficient to get job done. Although a bank account is required to receive payments. Freelancers sell their professional knowledge and skills, but nothing else. The organizations now changing its job structure and outsourcing jobs to freelance contractor. This gives them cost benefit and highly professional workers.

4.2.1 FREELANCING PORTAL

Freelancer acts intermediate between both employer and freelancers. Freelancing portal, this is a digital marketplace that will connect talented professionals with economic and give organizations access to affordable and low risk human capital. Freelancing portal defines two communities. Employer and Freelancer. Employer post the project or work with all necessary details and uploads it within minutes. Freelancer helps growing business find work with top-notch talent and agencies. It's simple to get started, just sign up, post your project, then review proposals to find the right independent contract or agency for you. Once you have engaged your talent, use the platform tool to communicate collaborate, and securely pay for your project. The fig.4.2.1 shows the overall user interface of the freelancing portal.
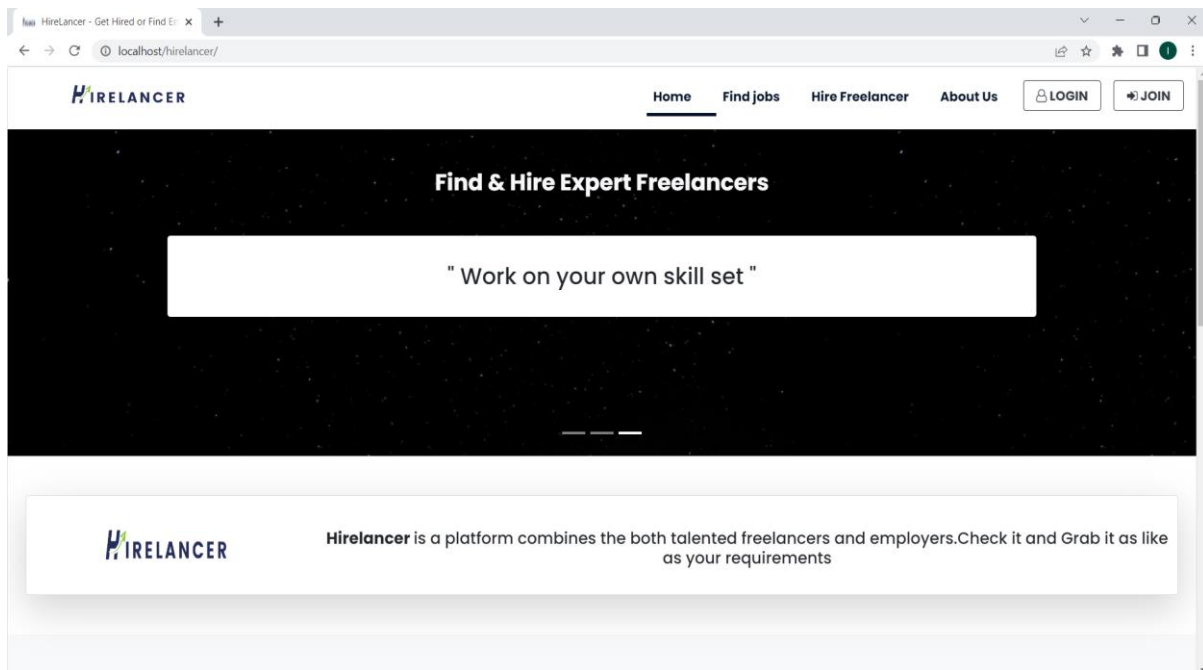
Fig. 4.2.1 Freelancing Portal

Freelancer provides many tools to connect with freelancer and get work done. Freelancer provides opportunities in many domains. The freelancer have to search for their suitable domain and bid for that domain projects. Freelancer engages in resolving conflicts between worker and employer. Any conflicts between worker or employer can be brought to freelancer portal through the email provided by the organization. It takes responsibility of no time payments without any delays. The individual must follow terms and rules listed in

agreements and privacy policy. If any individual found violating the norms, their account will be deactivated or suspended. Freelancers provides wide range in demand skills and roles where freelancer and employer agreement to work on skill.

4.2.2 FREELANCER PANEL

A Freelancer is an individual who earns money on a per-job or per-task basis, usually for short-term work as independent contractor. A Freelancer is not an employee of a firm and may therefore be at liberty to complete different jobs concurrently by various individuals or firms unless contractually committed to working exclusively until a particular project is completed. Typically, Freelancers are considered independent workers and may do their contract work full-time or as a side job to supplement full-time employment, time permitting. The fig.4.2.2 shows the freelancers who register in the freelancing portal.

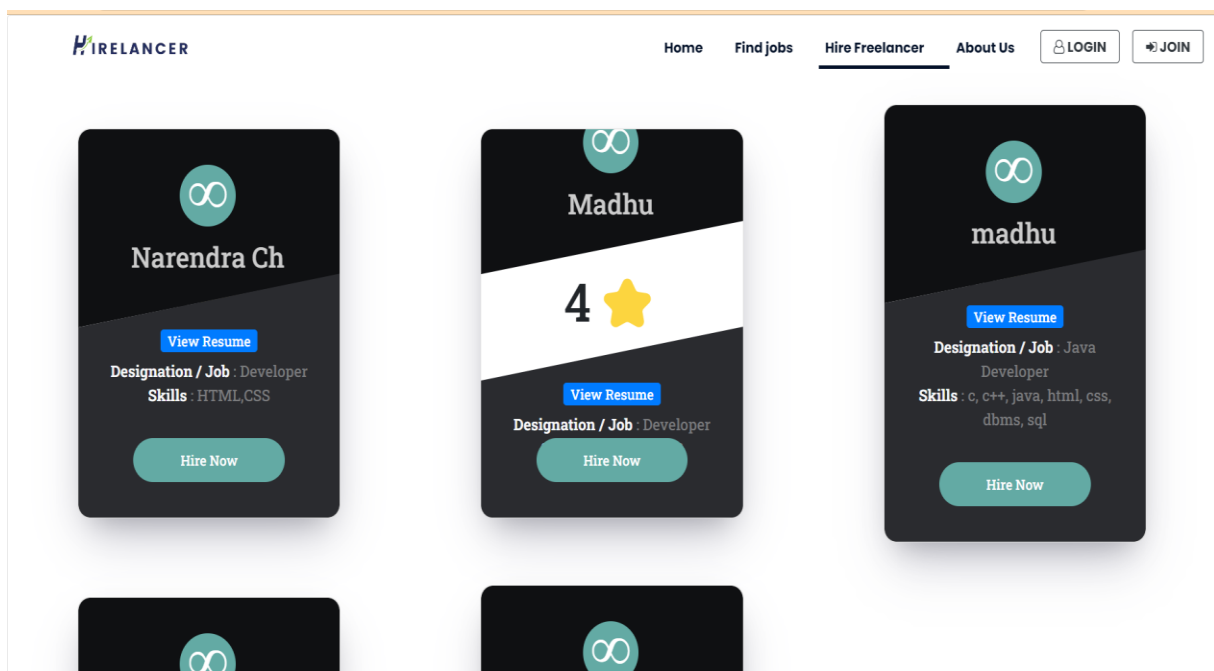
Fig. 4.2.2 Freelancers grids

Freelancers, as independent contractors, typically require signed contracts for the job to be done and will agree to a predetermined fee based on the time and effort required to complete the task. This fee may be a flat fee or a per-hour, per-day, or per-project fee, or some other similar measure. A Freelancer tends to work in the creative, skilled, or service

sector, such as in film, art, design, editing, copywriting, proofreading, media, marketing, music, acting, journalism, video editing and production, illustration, tourism, consulting, website development, computer programming, event planning, photography, language translation, tutoring, catering, and many more. The fig 4.2.2.1 shows that the table of a freelancers and it contains the attributes are freelancer's id, name, email, phone number, job, skills, drive link, password.

id	name	email	phone	job	skills	drive_link	password
1	Narendra Ch	narendra@gmail.com	5555555558	Developer	HTML,CSS	https://www.w3.org/WAI/ER/tests/xhtml/testfiles/re...	$2a$12$3ThLIeJjpcmU/AQp56aOYu8Y9dLI4c2
2	Madhu	narendra@gmail.com	5555588888	Developer	HTML,CSS,JS	https://www.w3.org/WAI/ER/tests/xhtml/testfiles/re...	$2a$12$3ThLIeJjpcmU/AQp56aOYu8Y9dLI4c2
3	madhu	madhu@gmail.com	8688387003	Java Developer	c, c++, java, html, css, dbms, sql	https://drive.google.com/file/d/1X8ToqY7kpa-moDoYH...	$2y$10$UJO/LvnGSZB96LoNDfn3ReJKyToN(
4	vijay	vijay@gmail.com	7894561230	python developer	python, machine learning	https://drive.google.com/drive/u/0/my-drive	$2y$10$XPJvcvsnSviEk8fDRIPFre3nj/91LNQL
5	Manoj	manoj@gmail.com	9966692529	Frontend Developer	HTML, CSS, Javascript, React Js	https://drive.google.com/drive/u/0/my-drive	$2y$10$IVRu3I5ilTJXSkwW1RKbSOJrHC38V(
6	venkat	venkat@gmail.com	7845874641	JavaScript Developer	JavaScript, HTML,CSS	https://drive.google.com/file/d/1X8ToqY7kpa-moDoYH...	$2y$10$zcn9QvfhBURlfxASGVK25e.vHXuFY[

Fig. 4.2.2.1 Table for Freelancers

A high skilled Freelancer can be described by two main factors such as

- **Ratings and Reviews :** Here recruiters will see the number of completed project, text, reviews, and the overall level of satisfaction with the contractor.

- **Portfolio :** Here contractors will upload their diplomas, examples (for development experts). This section is like a cloud services for contractor's projects.

One of the advantage of being a freelancer is that you have much more freedom that when you work for someone else. You have essentially running your own business, and it's up to you which new clients you take on, what your hourly rate is, and what hours your work. Freelancers have flexible hours to work. Again as a freelancer, you are boss. You choose your workload, your schedule, and every other aspects of how you run things. The freelancers are applied for the job posted by the employer with all necessary details which are name, phone number, email, designation, resume link and skills. He can also has option to edit his profile at any time.

Fig 4.2.2.2 Freelancer Panel

Freelancer has improved skillset it means you take on various projects from multiple clients. The fig.4.2.2.2 shows the portfolio of the freelancer panel. The fig 4.2.2.3 shows the table for freelancers applied for jobs that contains attributes are id, job id, freelancer's id and applied date.

Fig. 4.2.2.3 Table for Freelancers applied for jobs

Each project brings something new to the table and provides an opportunity to expand your skill set. There is no work pressure for the freelancer and no tensions. He work on the two types of process, whether he can work on the hourly basis as we mentioned or he can work on the total project base. In the table freelancers applied for the jobs there unique freelancer id and specific date. Every freelancer has chance to apply the any type of job and multiple freelancers can also apply for the same job which is posted the employer. Freelancer has access to explore the website in all ways except the admin panel.

4.2.3 REGISTER AND SEARCH FOR THE WORK

In freelancing portal any one can register if has a good set of skills. There separate panel for both login and sign up page. The user can register as freelancer or employer. If you are new user to the website, then you need to register in our website by following below steps. The fig.4.2.3 shows the sign up page of both freelancer and employer in the website.

1. Click on **Join** option the Hirelancer.com website, registration is free.

2. Select your account type. You can Sign up as freelancer or employer.

3. By signing up, you agree to our terms and conditions and privacy policy.

4. You will then be asked to provide a username. Note that once chosen, a username cannot be changed. Click on **Sign Up** once done.

5. To add resume in website. Firstly, you must upload your resume to drive, copy the link and paste the link in the given field.

6. Enter the relevant skills that applies to you. Enter the skills that you are expert in and have prior experience.

7. Now, you are successfully registered in Hirelancer.com.

Fig. 4.2.3 Register into the Website

4.2.4 EMPLOYEE OR CUSTOMER

Employers or customers are the people who post the project and hire the freelancer. Employer are the main pillars of freelancer portal. Without them no freelancer or any freelancer portal can survive. Employers can get freelancers at low cost where traditional employees are expensive. Employers can hire talented freelancer from large talent pool. Talented freelancers offers expertise that business can tap into with ease. If your business requires a specific skillset for a project, you can identify a freelancer that has spent years perfecting that same craft. The more experienced a freelancer is, the more value they can bring to project. Employer can get consistently high-quality work from a freelancer due to their range of experience. Before hiring a freelancer, employer have an opportunity to evaluate their past portfolio, check out reviews from clients, and interviews them to make sure they are right fit. In addition to offering quality work freelancers can often provide faster deliverables that full time employees, and more quickly and accurately. Generally full time employees are tasked with multiple projects simultaneously. The fig.4.2.4 shows the employer or customer panel, its shows the total number of jobs posted by the employer and the total number of freelancers hired by the employer.

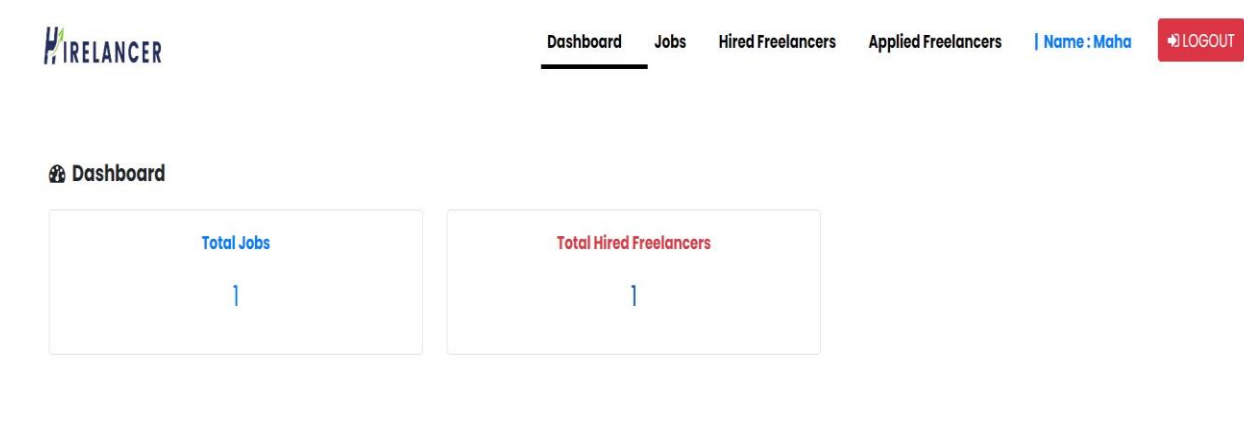**Fig. 4.2.4 Employer or Customer Panel**

This is often slows down projects and causes delays. In contrast, Freelancers generally focus on one project at time or work within shorter time frames, which results in increased efficiency and faster project completion. By hiring freelancers the employers can reduce risk. When you hire a full time employee you invest in that individual's future with the company.

Training and onboarding them costs money and time which generally involves some risk. Rather than losing that investment if the employee decides to leave the company, working with a freelancers allows you to build a contract with specific deliverables before payment. Working with a freelancer also reduces the risk as you can make changes without impacting your internal processes. Employer can brows through millions of freelancer profiles or create a freelancer job listing on upwork and receive personalized proposals from qualified freelancers. The fig 4.2.4.1 shows that employee table that contains attributes are employee's id, name, email, phone number, password and status.

id	name	email	phone	password	status
1	employer	employer@gmail.om	9898989898	$2y$10$k13OabrXWJqOltKYfwypo.YCbjD7G0dTFobXRRNl9On...	1
2	maha	maha@gmail.com	9876543210	$2y$10$uTFiV8ONaMO0sbm39yeC7OgWJlgnNR8mQU22v.vhwZS...	1
3	Mahesh	Mahesh@gmail.com	7337982275	$2y$10$dbuvr6XjdCwzfewQo4wF9uEuhobAdpTOkVyGA943tqS...	1
4	Suresh	suresh@gmail.com	9440253530	$2y$10$NvJXdrwGuh1rVAq3KNu0luEy/CyCMYnLYuf/BvhwlzE...	1
5	nani	nani@gmail.com	15468923684	$2y$10$GbAOOu6kAXpcyagbPtKDe.kpChpHt97VY1oDtlTDXPN...	1
6	ramu	ramu@gmail.com	8688387003	$2y$10$.NU8ScvcAaQw0GaRC8ePZ.vtrHjPo/kiMh1CQLIsFZX...	0
7	Somu	somu@gmail.com	45816313654	$2y$10$UIzT13Srd9ZwyPxFzBL.f.NGldQNFaD3rcckou.oEjN...	0
8	vanaja	vanaja@gmail.com	1234567890	$2y$10$S2613cy3LXUh6GiNiYpxTuG3TF.v.b1ufhFhH2R131J...	0

Fig. 4.2.4.1 Table for Employees

Employer is an individual from an organization or a company who post the job in freelancer platform and hire the professional freelancer based on their portfoloio, past work experience, reviews and ratings. Before posting the job employer also need to register into freelancer portal. In the below fig 4.2.4.2 shows that the jobs posted by the employer in various domains with all necessary details. In below figure it shows the three figures that are related to job grids that are posted by the employer and it is finds in the find jobs portal. It is possible to see all jobs posted by the employer without register into the portal. So the freelancer can know that which type of projects will be available in the portal.

With freelancing, the client pays per project, per task, or per hour, depending on the agreement. Freelance projects typically involve short-term assignments, although satisfied clients often request follow-on work. Most freelance jobs are available in the skills, service, and creative sectors

Fig. 4.2.4.2 Jobs posted by Employer
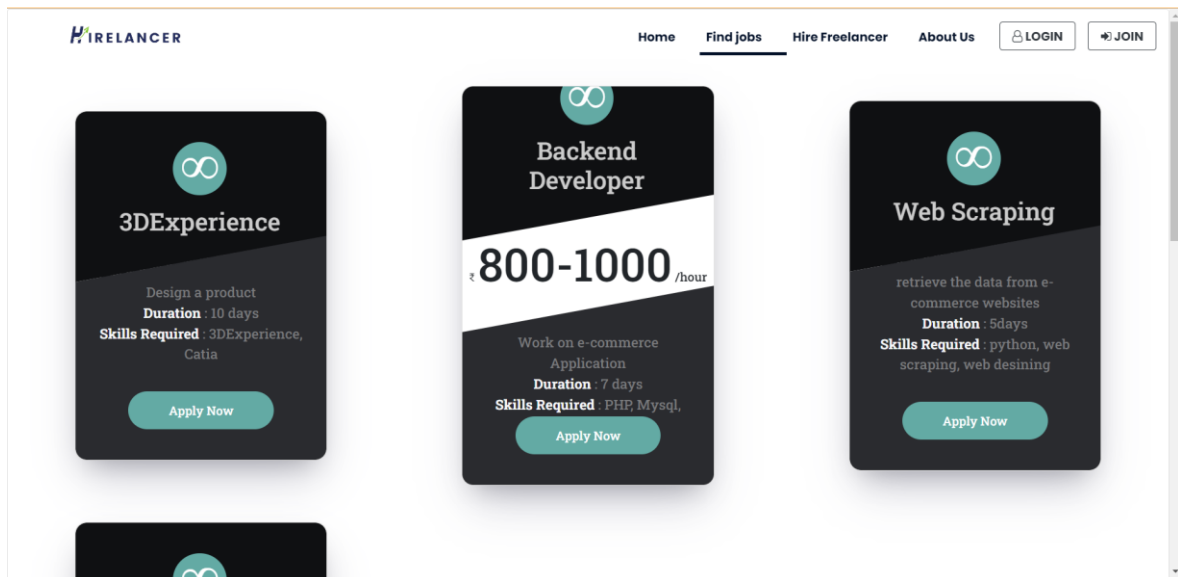
After successful registration, the employer can post the job and hire the freelancer. Employers are the individual who provide employability through this website.

4.2.5 POST THE WORK/JOB

After the successful registration of employer or customer in our freelancer portal. He /She can be able to post the project or job in our website.
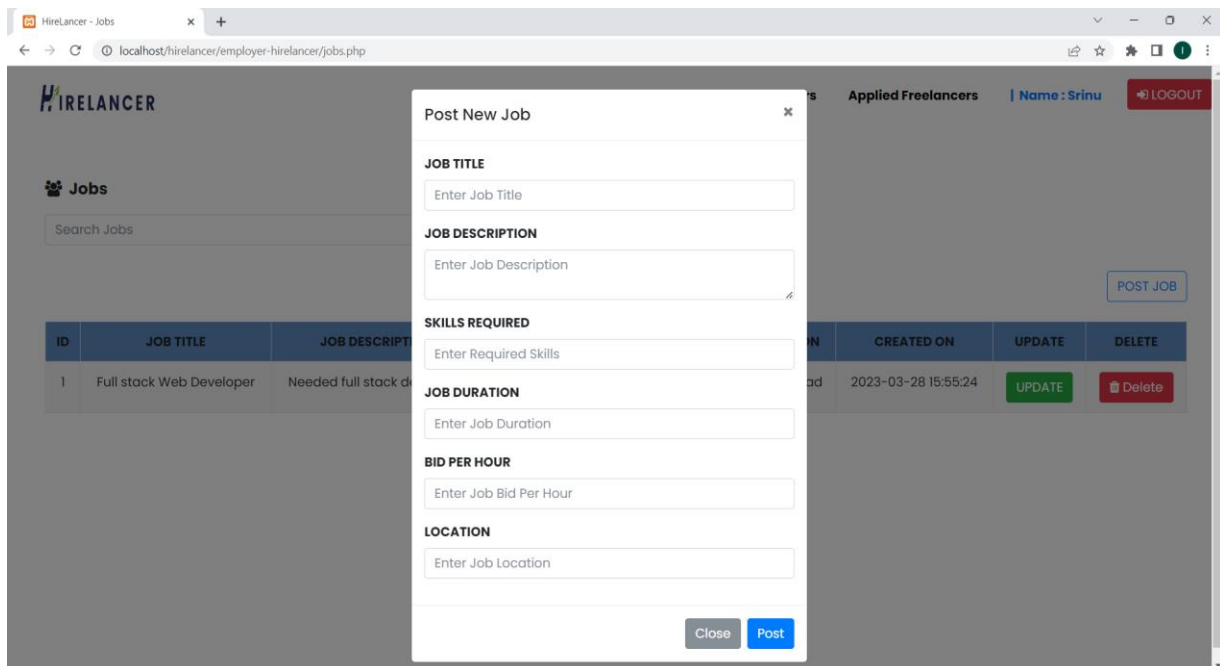
Fig. 4.2.5 Posting the job/work

- After registration, the employer has to click on post the job option.

- After clicking the post the job option, the employer must provide project title, project description, skills, cost and duration.

- Project title should be short and define the main context the project.

- In Project Description, the employer must state the full explanation of the project.

- In project skills, the employer should define the skills required to complete the project.

- The cost implies the total amount that an employer is willing to pay to complete the entire project.

- The duration implies the total time to be taken by Freelancer to complete the project.

The fig.4.2.5 shows the details of the job posting grid that is posted by employer. The fig 4.2.5.1 shows Table for Jobs that contains attributes are job id, name, employer id, description, skills, duration, bid, location and create date.

id	name	employer_id	description	skills	duration	bid	location	created_date
1	Web Scraping	2	retrieve the data from e-commerce websites	python, web scraping, web desining	5days	500-600	Kurnool	2023-03-25 09:48:51
2	Frontend Developer	3	Develop a interface for college admissions	HTML, CSS, Javascript	6 days	500-600	Hyderabad	2023-04-15 12:27:39
3	3DExperience	4	Design a product	3DExperience, Catia	10 days	800-1000	Hyderabad	2023-04-15 12:33:13
4	Backend Developer	4	Work on e-commerce Application	PHP, Mysql, Javascript	7 days	800-1000	Bengalore	2023-04-15 12:41:45

Fig. 4.2.5.1 Table for Jobs

4.2.6 ASSIGN WORK TO FREELANCER

After posting the project, the Freelancer search and bid for the project that is suitable for his skillset. The employer gets the bids posted by Freelancers on the project. The employer will evaluate the Freelancer portfolio and assign project to Freelancer who he thinks fits right. To pick the right Freelancer the employer must consider ratings, past work

and portfolio. Portfolio defines the behaviour of the Freelancer how he performed over the years, how timely he can deliver the project, is the delivered project is of high quality. The past work of Freelancer defines about his last projects.

id	employer_id	freelancer_id	hired_on
1	3	2	2023-03-25 09:50:18
3	3	2	2023-03-25 09:51:22
4	3	2	2023-03-25 09:51:24
28	2	5	2023-04-21 14:54:14

Fig. 4.2.6 Table for Employers hiring Freelancers

The fig 4.2.6 shows table for employers hiring the freelancers that contains attributes are id, employer id, freelancer id and hired date.The portfolio gives the information about individual projects, their skills and ratings. The ratings are scaled on five stars. Of all received bids, the bid with highest star rating have more chances of winning the project. The fig.4.2.6.1 shows the assigning the work to the freelancer by employer. In this panel it shows the all details of the how many freelancers applied to the job that was posted by the employer. So the employer will choose the freelancer based on the skill set and assign the project to the freelancer. He can also assign the project in hired freelancers list its based on his interest.

Fig. 4.2.6.1 Assigning work to the freelancer

The ratings, past work, portfolio determines the best Freelancer. The employer consider these three aspects to assign project to best Freelancer.

4.2.7 SUBMISSION OF PAYMENT AND RATINGS

In this phase the employer need to submit the payment and give the rating to his efforts. This is the last phase of the process. Once the project is completed, the Freelancer submits the project to the client. The client/employer verifies the project as successful or not. The client checks whether the project is according to the requirements or not. If project is according to the requirements and submitted in time, within budget then we can mark that the project is successful otherwise not. The client is satisfied with project and delivered on time, within budget then the client marks that project as successful. The fig 4.2.7 shows ratings table that contains rating id, freelancer's id and rating that is given by the employer. The employer can give the rating on scale of five for freelancer effort and pay the payment. The employer can also have access to dismiss the freelancers account after the completion of the payment or project. After client marking the project as successful then the payment will be transferred to Freelancer.

id	freelancer_id	rating
1	2	4
2	5	5

Fig. 4.2.7 Table for Ratings

These rating and experience will help the freelancer for the upcoming projects to get more projects and good impact on the his profile. The fig 4.2.7.1 shows the rating and payments page, which is happen at the end of the project. A freelancer's ratings help clients evaluate their overall performance on Freelancer.com. The higher the ratings, the more credible and trustworthy a freelancer becomes towards clients. The overall star ratings given by the clients a freelancer has worked for (5 stars being the highest). The total number of reviews received from previous clients. This represents a freelancer's overall earnings from all the projects completed and paid on the site. The percentage of projects wherein the clients believe that a freelancer completed their project on the agreed deadline. The percentage of projects wherein the clients believe that a freelancer completed their project for the agreed price.
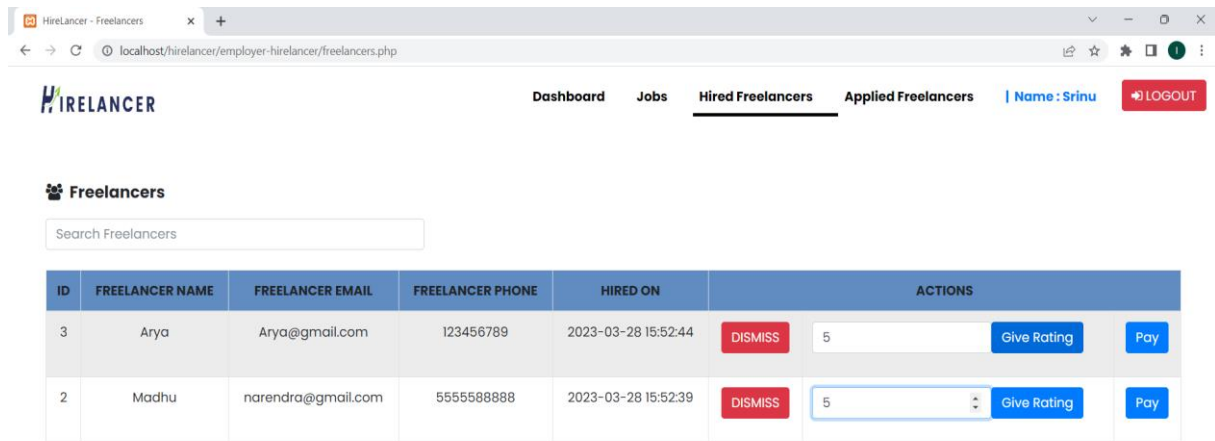
Fig. 4.2.7.1 Rating and Payments

4.2.8 ADMIN PANEL

Admin panel, the entire freelancing portal is managed by the admin. Admin has all privileges in the website. Admin can manages the accounts of both employer and freelancer. The admin have some actions to take in the website those are. The fig 4.2.8 shows admin table that contains attributes are admin id, name, email and password.

Fig. 4.2.8 Table for Admin Panel

1. The admin has to activate the accounts of the user when they are in the process of registration.

2. The admin has access to activate or deactivate the accounts of both employer and freelancer.

3. The admin has access to delete the job posted by the employer.

4. The admin maintain the overall the website.

In admin panel we have total number of jobs, total number of employers and total number of freelancers. The fig.4.2.8.1 shows that the admin panel. The admin panel is not visible to the neither the freelancer nor employer. The admin account maintain by the owner of the website and no one can access to that account.
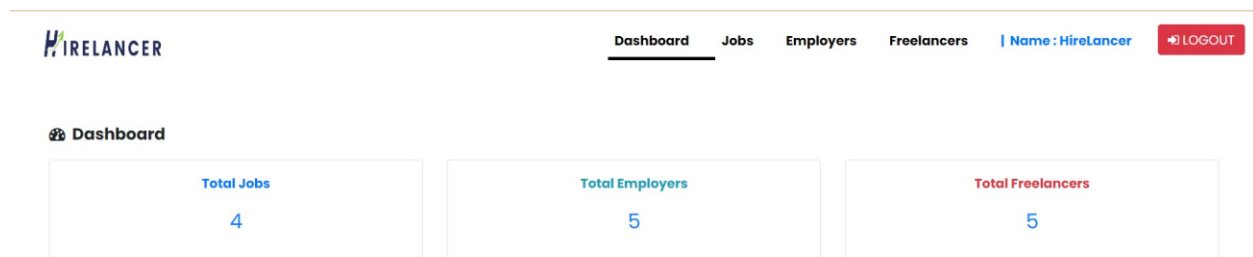
Fig. 4.2.8.1 Admin Panel

Freelance Administrative Assistants ensure clerical support for a variety of clients. These self-employed workers often provide services over the Internet and handle duties such as sorting emails, organizing meetings, making travel and accommodation arrangements, preparing reports, and updating websites. The Administrator should be highly organized and able to multitask with ease. The Administrator's main tasks include managing office equipment, booking meetings and events, arranging travel and distributing mail.

4.3. DESIGN AND METHODOLOGIES

In freelancing portal, we design a website and we named it as Hirelancer. In order to develop the Hirelancer website there is two phases in that those are

1. Frontend Development

2. Backend Development

4.3.1 FRONTEND DEVELOPMENT

Frontend Development, which is used to build the user interfaces and creates websites and applications using web languages such as HTML, CSS, Boostrap and JavaScript that allow user to access and interact with the site or app. The frontend design plays the main role in the web applications. The good design attracts the user and our website get the more reach. The frontend development is the responsible for implementing visual elements that users see and interact with in a web application. There different technologies are used to develop the frontend design.

4.3.2 BACKEND DEVELOPMENT

Backend Development means working on server side software, which focuses on everything you can't see on website. In backend development the developers ensure the website performs correctly, focusing on database, backend logic, application programming interface (APIs), architecture and servers. The backed developer connects the frontend interface to database. The technologies used in the backend development are SQL, PHP. We use boostrap for responsive design.

4.3.3 PHPMYADMIN

phpMyAdmin is free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations can be performed via the user interface, while you still have ability to directly execute any SQL statement. It is a intuitive web interface and its supports lots of MySQL fetures. The phpMyAdmin is a database management tool for MySQL compatible databases.

We create the database tables in the phpMyAdmin. We create the maximum of seven table the in the phpMyAdmin. The databases are

1. Admin, database for the storing the all information of the freelancers, employers and number of jobs posted in the website.

2. Employer, database for the storing the all registered employees in the website.

3. Freelancer, database for the registered freelancers in the website.

4. Hire application, the database for the all hired applications.

5. Jobs, the database for the jobs posted in the website by the employer.

6. Job applications, the database for the job application to know the person who applied for the job.

7. Ratings, the database for the store the all ratings which are given by the employer to the particular freelancers in order to complete the project.

The fig.4.3.3 shows the databases created in the phpMyAdmin for to connect the database and to store the all data given by the user.
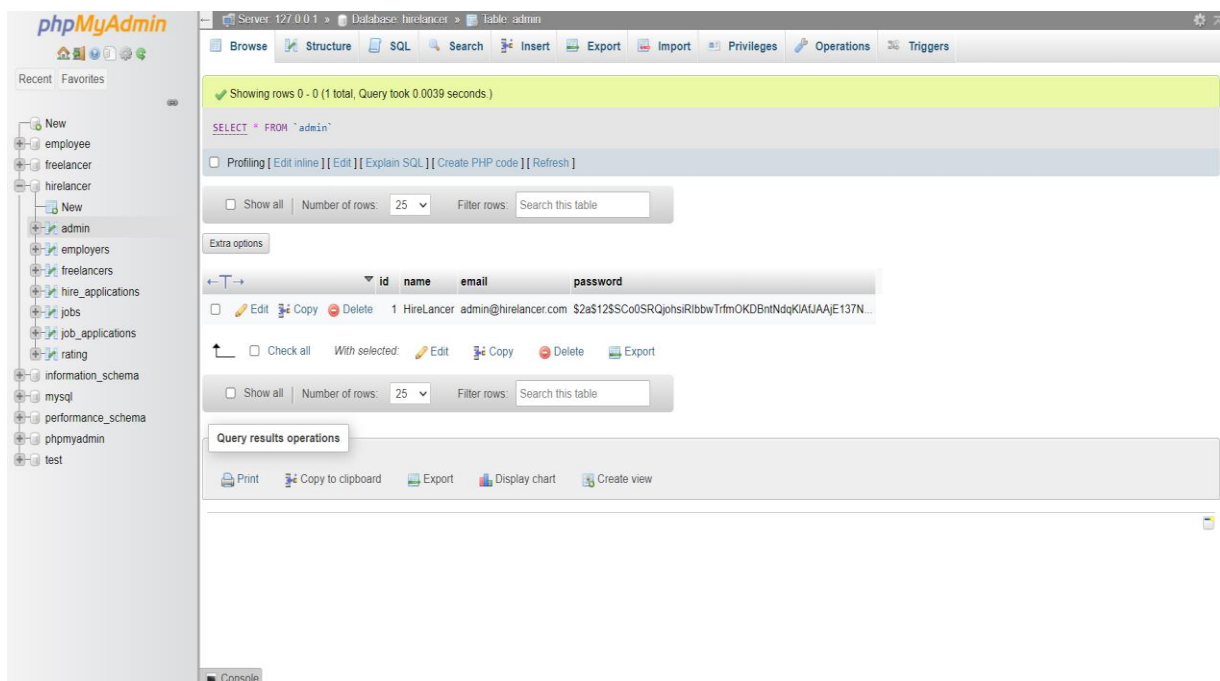
Fig.4.3.3 Databases for phpMyAdmin

SOURCE CODE

5. SOURCE CODE

5.1 INTRODUCTION

In this freelancing portal, we used the technologies called HTML, CSS, JavaScript, and Boostrap. These technologies are related frontend technologies. The backend technologies used in the project are the PHP, MySQL. The overall code is implemented in the visual studio code and phpMyAdmin. Inorder to run the code we use local server XAMP control panel.

5.2 VISUAL STUDIO CODE

Visual Studio Code is a source-code editor made by Microsoft for windows, Linux and MACOS by Microsoft for Windows, Linux and MACOS. Features include support for debugging, syntax, highlighting, code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional that add additional functionality.

Visual Studio Code is a source-code editor that can be used with a variety of programming languages, including Java, JavaScript, Go, Node.js, Python and C++. It is based on the Electron framework, which is used to develop Node.js Web application that run on the Blink layout engine.

In this overall code, in order to connect with the MySql database we use mysqli_connect method. The *mysqli_connect()* function in PHP is used to connect you to the database. In the previous version of the connection *mysql_connect()* was used for connection and then there comes *mysqli_connect()* where *i* means improved version of connection and is more secure than *mysql_connect()*. It returns an object which represents MySql connection. If connection failed it return false. The fig.5.2 shows the connection made between the php code to the mysql database in the XAMP server. The syntax, which is refer how to connect the portal to the database with phpMyAdmin.

mysqli_connect ("host", "username", "password", "database_name")
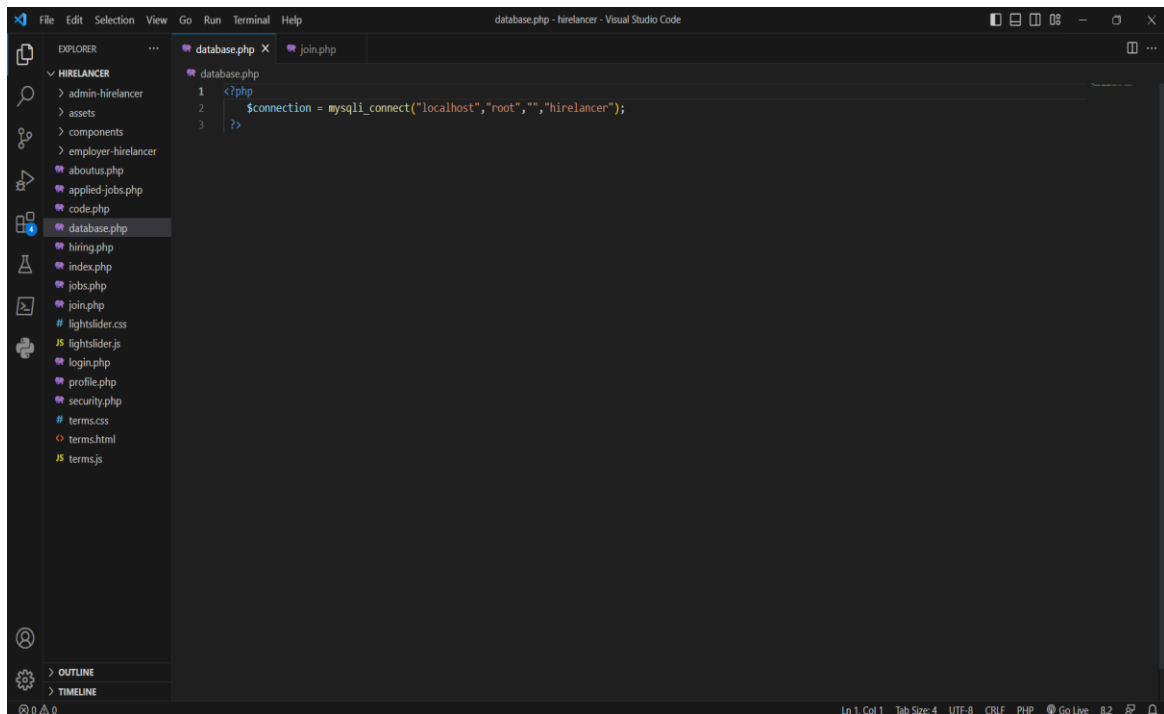
Fig. 5.2 Database Connection

The overall code is maintained in the visual studio code in structured format. For every component we maintained separate folders. The employee components are maintained in the employer - hirelancer folder. The freelancer components are maintained in the freelance – hirelancer. The admin components are maintained in the admin – hirelancer. The all CSS files are maintained in the one separate folder called asset and all the shortcuts are maintained in the include files. We list out the all PHP files in the visual studio code.

In order to execute the code we need to start the Apache and MySQL in the XAMP control panel and we should open the browser and enter the address the on the browser with complete project folder name and the website will open.

The fig 5.2.1 is shows about the overall structure of the code implemented in the visual studio code. This contains all employer, freelancer, admin, asset, includes and all components of the project file.

The main code of the entire freelancing portal start with the index php and there is another page for in order to join into the website called join php. In below we mention that both index and join files. Join file shows that entire design of the portal or structure of the portal and the join file shows that the actions that take place in the freelancing portal.

Fig. 5.2.1 Structure of the Code

Index.php

```php
<?php include 'components/navbar.php'; ?>

<div class="header " id="header" style="background-
image:url('./assets/img/background.jpg')">
  <div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
    <ol class="carousel-indicators">
      <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
      <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
      <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
    </ol>
    <section id="progress">
      <div class="container  min-height-100">
```

```
<h3 class="text-light text-center font-weight-bold mt-5 mb-5">Find & Hire Expert
Freelancers</h3>
        <div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
          <div class="card shadow text-center shadow-lg p-3 mb-5 bg-white rounded">
            <div class="carousel-inner">
              <div class="carousel-item text-center active">
                <div class="container text-center">
                  <div>
                    <blockquote class="blockquote text-center pt-3">
                      <h3 class="mb-0">" Great site to start your career and explore
your
                          knowledge "
                      </h3>
                    </blockquote>
                  </div>
                </div>
              </div>
              <div class="carousel-item text-center">
                <div class="container">
                  <div>
                    <blockquote class="blockquote text-center pt-3">
                      <h3 class="mb-0">" Best place to find new jobs and talented
freelancers "
                      </h3>
                    </blockquote>
                  </div>
                </div>
              </div>
              <div class="carousel-item text-center">
                <div class="container">
                  <div>
                    <blockquote class="blockquote text-center pt-3">
                      <h3 class="mb-0">" Work on your own skill set "
```
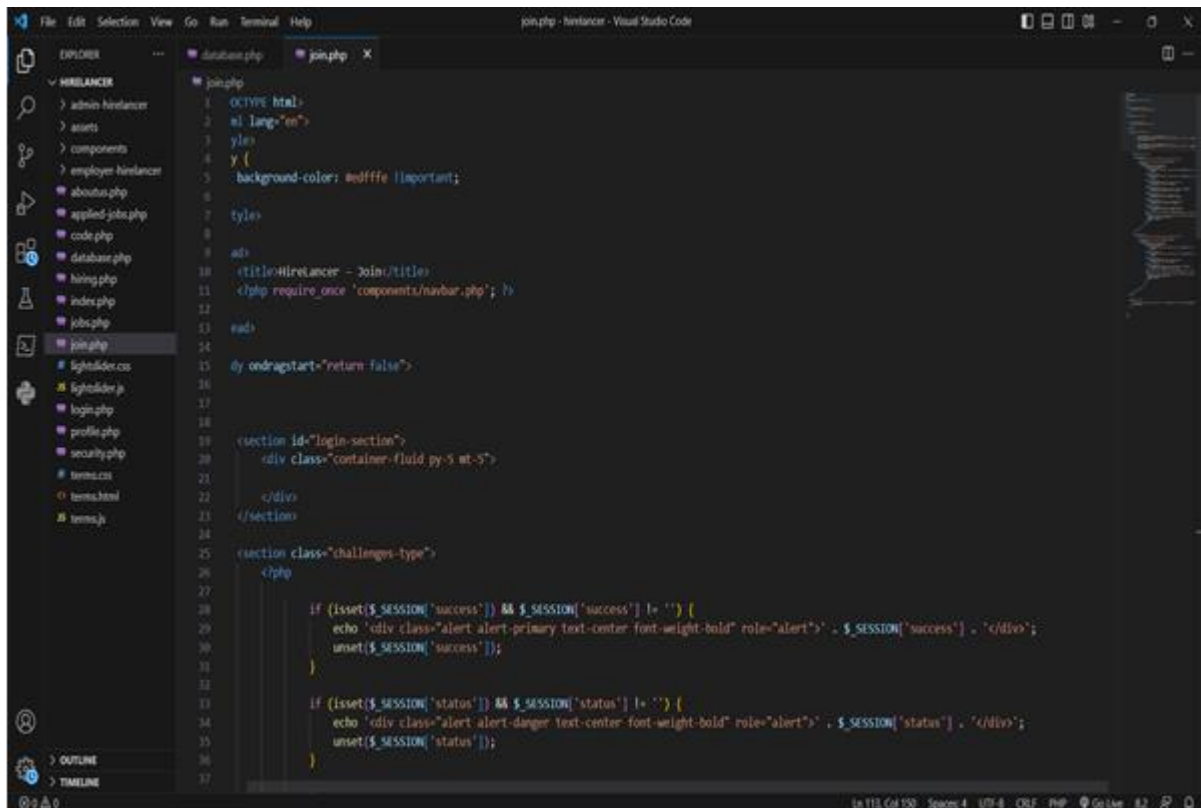
```
                        </h3>
                     </blockquote>
                  </div>
               </div>
            </div>
         </div>
       </div>
     </div>
   </section>
 </div>
</div>


<div class="container-fluid">


  <div class="card shadow text-center shadow-lg px-2 py-3 my-5 mx-2 bg-white rounded ">
     <div class="carousel-inner">
        <div class="carousel-item active">
          <div class="row">
            <div class="col-md-3 my-auto">
               <img src="assets/img/logo.png" width="160" height="50" style="border-
radius:2x0%">
             </div>
             <div class="col-md-9 my-auto">
               <blockquote class="blockquote text-center">
                  <h5 class="">
                    <br>
                    <strong>Hirelancer </strong> is a platform combines the both
                    talented freelancers and employers.Check it and Grab it as like as your
requirements
                    </h5>
                 </blockquote>
```

```
        </div>
      </div>
    </div>
  </div>
</div>


<section id="about-us">
  <div class="container">
    <h3 class="title text-center font-weight-bold text-dark">What's great about
HireLancer</h3>

    <div class="row d-flex flex-sm-row-reverse">

      <div class="col-md-4 text-center my-auto desktop-only">
        <i class="fa fa-bolt my-auto" aria-hidden="true"
          style="font-size:250px!important;color:#000!important"></i>
      </div>

      <div class="col-md-6 about-us m-auto">
        <ul style="list-style: none;" class="text-justify">

          <li><i class="fa fa-check" aria-hidden="true"></i> <b>Find Portfolios</b>
            Find professionals you can trust by browsing their previous work and reading
their profile
            reviews.
          </li>
          <li>
            <i class="fa fa-check" aria-hidden="true"></i> <b>Bidding</b>
            Find professionals you can trust by browsing their previous work and reading
their profile
            reviews.
          </li>
```

```
        </li>
        <li><i class="fa fa-check" aria-hidden="true"></i> <b>Quality Work</b>
            Hirelancer provides always good quality of service in all technical domains
        </li>
      </ul>
    </div>


  </div>
 </div>
</section>


<?php include 'components/footer.php'; ?>


<script>
$('.carousel').carousel({
   interval: 4000
})
</script>
```


Login.php


```
<!DOCTYPE html>
<html lang="en">
<style>
body {
   background-color: #edfffe !important;
}
</style>


<head>
   <title>HireLancer - Join</title>
   <?php require_once 'components/navbar.php'; ?>
```

```
</head>

<body ondragstart="return false">
   <section id="login-section">
      <div class="container-fluid py-5 mt-5">
      </div>
   </section>
   <section class="challenges-type">
      <?php
          if (isset($_SESSION['success']) && $_SESSION['success'] != '') {
              echo '<div class="alert alert-primary text-center font-weight-bold" role="alert">'
. $_SESSION['success'] . '</div>';
              unset($_SESSION['success']);
          }
          if (isset($_SESSION['status']) && $_SESSION['status'] != '') {
              echo '<div class="alert alert-danger text-center font-weight-bold" role="alert">' .
$_SESSION['status'] . '</div>';
              unset($_SESSION['status']);
          }

          ?>
      <div class="container-fluid row">

         <div class="col-md-6">
            <div class="card shadow text-center shadow-lg p-3 mb-5 bg-white rounded">

               <p class="text-center font-weight-bold">FreeLancer SignUp</p>
               <div class="row">
                  <div class="col-lg-10 col-xl-9 mx-auto">
                     <form action="code.php" method="POST">
                        <div class="form-group">
```

```html
                <input type="text" name="name" class="form-control"
placeholder="Enter Your Name"
                    required>
            </div>
            <div class="form-group">
                <input type="email" name="email" class="form-control"
placeholder="Enter Your Email"
                    required>
            </div>
            <div class="form-group">
                <input type="number" name="phone" class="form-control"
                    placeholder="Enter Your Phone" required>
            </div>
            <div class="form-group">
                <input type="password" name="pass" class="form-control"
minlength="8"
                    maxlength="200" placeholder="Password" required>
            </div>
            <div class="form-group">
                <input type="text" name="job" class="form-control"
                    placeholder="Enter Your Job Designation" required>
            </div>
            <div class="form-group">
                <input type="link" name="drive_link" class="form-control"
                    placeholder="Enter Your Resume Link" required>
            </div>
            <div class="form-group">
                <textarea type="text" name="skills" class="form-control"
                    placeholder="Enter Your Skills" required></textarea>
            </div>
            <button
                class="btn btn-outline-success btn-lg btn-block text-uppercase font-
weight-bold register-btn"
```

```
                    name="freelancer_signup" type="submit">

                    SignUp as FreeLancer

                  </button>

                  <br>

               </form>

            </div>

          </div>

        </div>

      </div>

      <div class="col-md-6">

         <div class="card shadow text-center shadow-lg p-3 mb-5 bg-white rounded">


            <p class="text-center font-weight-bold">Employer SignUp</p>

            <div class="row">

               <div class="col-lg-10 col-xl-9 mx-auto">

                  <form action="code.php" method="POST">

                     <div class="form-group">

                        <input type="text" name="name" class="form-control"
placeholder="Enter Your Name"

                            required>

                     </div>

                     <div class="form-group">

                        <input type="email" name="email" class="form-control"
placeholder="Enter Your Email"

                            required>

                     </div>

                     <div class="form-group">

                        <input type="number" name="phone" class="form-control"

                            placeholder="Enter Your Phone" required>

                     </div>

                     <div class="form-group">

                        <input type="password" name="pass" class="form-control"
minlength="8"
```

```
                        maxlength="200" placeholder="Password" required>
            </div>


            <button
                class="btn btn-outline-success btn-lg btn-block text-uppercase font-
weight-bold register-btn"
                name="employer_signup" type="submit">
                SignUp as Employer
            </button>
            <br>
          </form>
        </div>
      </div>
    </div>
  </div>
  </section>
  <div class="text-center">
    <hr>
    <p class="copyright"><i class="fa fa-copyright"></i> <?php echo date('Y');
?>  All Rights Reserved to
      <b>HireLancer</b>
    </p>
  </div>
</body>
</html>
```

TESTING AND VALIDATION

6. TESTING AND VALIDATION

6.1 INTRODUCTION

The testing is the process of executing a program with the intent of finding an error. The completion of a system is achieved only after it has been thoroughly tested. Though this gives a feel the project is completed, there cannot be any without going though this stage. Hence in this stage it is decided whether the project can undergo the real time environment execution without any break downs, therefore a package can be rejected event this stage.

Testing is a set of activities that can be planned in advance and conducted systematically. The proposed system is tested in parallel with the software that consists os its own phased of analysis, implementation, testing and maintenance.

6.2 TESTING STRATEGIES

A strategy for software testing integrates test cases into a series of well planned steps that result in the successful construction of software. Software testing is a broader topic for what is referred to as verification and validation. Verification refers to the set of activities that ensure that the software correctly implements a specific function. Validation refers the set of activities that ensure that the software that has been built is traceable to customer's requirements.

Unit Testing

Unit testing focuses verification effort on the smallest unit of software design that is the module. Using procedural design description as a guide, important control paths are tested to uncover errors within the boundaries of the module. The unit test is normally white box testing oriented and the step can be conducted in parallel for multiple modules.

Integration Testing

Integration testing is systematic technique for constructing the programme structure, while conducting test to uncover errors associated with the interface. The objective is to take unit testes methods and build a program structure that has been dictated by design.

Top – down Integration

Top – down integration is an incremental approach for construction of program structure. Modules are integrated by moving downward through the control hierarchy, beginning with the main control program. Modules subordinated to the main program are incorporated in the structure either in the breadth first manner.

Bottom – up Integration

This method as the name suggests, begins construction and testing with atomic modules that means modules at the lowest level. Because the modules are integrated in the bottom up manner the processing required for the modules subordinated to a given level is always available and need for stubs eliminated.

Validation Testing

At the end of integration testing software is completely assembled as a package. Validation testing is the next stage, which can be defined as successful when the software functions in the manner reasonably expected by the customer. Reasonable expectations are those defined in the software requirements specifications. Information contained in those sections form a basis for validation testing approach.

System Testing

System testing is actually a series of different tests whose primary purpose is too fully exercise the computer based system. Although each test a different purpose, all work to verify that all system elements have been properly integrated to perform allocated functions.

Security Testing

Attempts to verify the protection mechanisms built into the system.

Performance Testing

This method designed to test runtime performance of software within the sontext of an integrated system.

CONCLUSION

7. CONCLUSION

Talented freelancers offer expertise that businesses can tap into with ease. If your business requires a specific skills for a project, you can identify a freelancer that has spent years perfecting that same craft. The more experienced a freelancer is, the more value they can bring to a project. Freelancers can deliver consistently high quality work due to their range experience. Before hiring a freelancer you'll have an opportunity to evaluate their past work portfolio, check out reviews from clients, and interview them to make sure they are the right fir. Since freelancers are often competing for projects, you can look for those who will give your project the attention and quality your company needs. By successfully competing your project, freelancers build their reputation, expand their portfolio, and increase their chance of future employment or referrals. In addition to offering quality work, freelancers can often provide faster deliverables than fulltime employees, and more quickly and accurately. When hiring a fulltime employee, companies are usually restricted to the area in which their business operates. By opening the opportunity to freelancers, companies can access a larger talent qualifications, and skills they require without settling for the best available person in their immediate area. Freelancers can bring a new and fresh perspective to a project.

As an outsider they may offer a unique idea that can greatly benefit a project. This fresh perspective may be a solution to a problem or a different way of understanding your customers needs.

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