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**Freelancing Application Management System**

# Introduction

**1.1 Question: What is the background of this project?**

Answer: This Web-based freelancing application will create a connection between freelancer and customer. This project will solve the communication gap between them. It will make a secure platform for project-based work.

**1.2 Question: What is the purpose of this project?**

Answer: This project will solve the communication gap between freelancers and customers. It will make a secure platform for project-based work. It will make sure that the client gets projects timely. This application will also make sure that the payment method through the payment gateway is secured and end-to-end encrypted so that the information of both is secured.

**1.3 Question: How many types of users will be there?**

Answer: There are three types of users.

Admin

Customer

Freelancer

**Project Roll Identification and Responsibilities:**

•Customer: will come with the plan and decide what to implement in the application. Customer sets the implementation priority for the requirement.

•Freelancer: will try to keep the code as simple as possible. The programmer will also be careful about the time complexity and user friendliness of the application.

•Admin: will manage the whole project and make any decision about the project development.

**Functional Requirements:**

1. **Software Login:**

System shall allow user to login to the system with valid username and password.

1. **Theme:**

System will let user choose which theme to choose.

After choosing the theme user can change it also.

User don’t need to choose theme every time, theme will be automatically saved by system after first time.

Priority: Low

Condition: User need it log in.

1. **Language:**

System will automatically use English language.

User can change language.

User don’t need to choose language every time, it will be automatically saved by system after first time.

Priority: Low

Condition: User need it log in.

1. **Search:**

User can search what kind of projects he wants to work on.

There will be filter option for user.

Priority: High

Condition: User need it log in.

1. **Advertisement:**

User will find advertisement for top paid work.

User can find all the info about the advertisement.

Priority: Medium

Condition: User must have valid username and Password.

1. **Money Transection:**

User have to pay for advertisement.

User can pay by banking method.

User can pay by net banking.

Priority: High

Condition: User must have valid username and Password.

1. **Discount Offer:**

User can enjoy discount for advertisement in some specific occasion.

Priority: Low

Condition: User must have valid username and Password.

1. **Account profile:**

User’s Name, Email, username information will be in their own profile

User can hide it if they want.

Priority: High

Condition: User must have valid username and Password.

1. **Contact:**

User’s contact information will be in their profile

User can hide it if they want

User can block another user.

Emergency contact information will be added if contact is hidden.

Priority: High

Condition: User must have valid username and Password.

1. **Account security:**

Users get alert about unrecognized logins.

User can see from which accounts their account was logged in.

User can use two factor authenticator.

Priority: High

Condition: User must have valid username and Password.

1. **Terms and condition:**

In order to use this software, user must abide by certain terms and condition that are explained here.

Priority: Medium

Condition: User must have valid username and Password.

1. **Notification:**

User’s can add each other as a friend after that they will be notified.

User’s can interact with each other by online messaging. They will get notified if they interact with each other.

After payment they will be notified.

Priority: Medium

Condition: User must have a valid username and Password.

1. **Update:**

User phone regularly gets updates in the background.

Priority level: Medium.

Condition: User must have a valid username & Password.

1. **FAQ:**

Here answers to some common questions about how to use this software.

Priority: low.

Condition: Users need to login into the account first.

1. **Rating:**

Here every user able to rate every user.

User can rate them based on quality of service of banking.

Priority: low.

Condition: Users need to login into the account first.

1. **Report:**

If a user cheated by another user, they can report it here.

Priority: low.

Condition: Users need to login into the account first.

1. **Feedback:**

Users can select a feedback tab in which a page with a comment box shows up.

Users can send photos with his/her issue so that he/she can give his/her explanation as he/she wants.

Priority: low.

Precondition: Users need to login into the account first.

## System Quality Attributes

* **Availability:**

1. The system shall be at least 99% available all over the week.
2. Users can post job anytime throughout the week.
3. The website should be able to handle at least 1 million people at a time.

**Priority Level:** High

* **Performance:**

1. The webpages will be loaded in maximum 6 seconds

**Priority Level:** Medium

* **Efficiency:**

1. At least 25% of the processor capacity and RAM available for the application shall be unused at the peak load conditions.

**Priority Level:** Medium

* **Flexibility:**

1. A maintenance programmer who has at least 1 year of experience supporting this product shall be able to make a new copy output available product or adding new features include code modifications and testing, with no more than one hour of labor.

**Priority Level:** Medium

* **Integrity:**

1. Only the person who don’t have any account will be able to open a new account.
2. Only the administration will able to see the personal details like phone numbers, email etc.
3. The buyers and freelancers will able to see the transaction history but can’t change it.
4. The website security shall be encrypted highly so that nobody can download or screenshot any part of the site.

**Priority Level:** High

* **Interoperability:**

1. The system shall be able to import any required data from Google and Facebook.
2. The system shall be able to import and check data from NID servers.
3. The system shall be able to import data from mobile banking and internet banking services.

**Priority Level:** High

* **Portability:**

1. There will be different apps and software for all platforms like Android, Mac, Windows, Linux etc. But one user can access everything same from all platform.

**Priority Level:** Low

**REQUIREMENTS:**

**Project Requirements:**

* The project should be completed in between 3 months
* The project budget should be mention in the post.
* The project should be done by Python DJango Framework on Backend.
* On Frontend the project should be done by HTML5, CSS & java scripts.
* The program should be hosted on Amazon Cloud Hosting.
* Project condition should be fill-up when it delivered the client.
* Web Developer, Graphic Designer, Project Manager, UI/UX designer are needed to maintain the Application.

**Some problems and their solutions:**

**Risk:**

A freelance services marketplace is an online platform where business can find and hire individual contractors to do some work remotely. He is self-employed person who work independently for the buyers at a low cost. Currently we can see two types of freelancing website. In one of them the buyers post order and the freelancers bid for the project. After the bid process the buyer select one of the freelancers. And on the other kind of websites, there the freelancers post gigs or portfolio about their skills and buyers contact with them for their work.

But there are various problems in both kind of marketplaces. First of all, the marketplaces are not suitable for the new freelancers as the buyers always wants the experienced and high reviewed freelancers. So, if a new freelancer come in this marketplace with good skills, he may face problems about getting his first jobs.

Again, if a person wants to do a big project, he has to search freelancer for each kind of works. The freelancers don’t have communication with each other so that they can’t do the project properly and faces a lot of difficulties.

Also, if anyone has plan for a startup but don’t have any employee, he has to face a lot of difficulties for recruiting new employees as there are lots of trust issues and peoples show less interest as the company is new.

This web-based freelancing application will solve all these problems in a single platform.

**Solution:**

In this web-based freelancing application there will be a skill test at the very beginning of the registration as a freelancer. In that free test the freelancers have to show their skills and depending on the result they will get prioritize about being in the first page of the site.

When the buyers post for their job, the freelancers who are interested about the job will submit their portfolio or demo on the project post. But their work will be protected with high security so no one can violate their copyright. When the buyer like anyone’s portfolio he will contact with him and tell him to do the work. There will be no bid system. Currently the existing sites have feature of bidding. The lowest bidder or the high rated freelancer gets the job. In some sites the high rated gigs are shown on the first page. The only option for the new freelancers is to boost their gigs or portfolio to show it on the top page.

There will be a section where the top projects which are done through the marketplace will be highlighted without mentioning the freelancer’s name and rating. If any buyer like any project he may contact with the freelancer from there.

There will be another section of Teaming Up. This feature will unlock for the buyer after a certain level as there will be a rating system for both buyer and sellers which will indicate their level. But for making every Team they have to pay a fixed amount of money. In this Team feature He will select different kinds of freelancers for his work and make a team with them. The team will work together on the project. After finishing the work, the team members will get their payments as previously mentioned on the circular. Currently no existing freelancing site offers this feature. The only thing that can be done is to contact with every freelancer separately.

Also, there will be a feature for the peoples who wants to start their startups. They could recruit for his full company from the marketplace by showing the portfolios and works of the freelancers. This feature will ensure permanent job for the freelancers as well as the new companies will get rid of the difficult recruiting process. Currently some platforms offer job searching or posting. There the recruiters give advertisement about their works and people apply. They face a lot of difficulties to shorten the CV list according to skills. Many well-skilled persons get rejected because of this selection system. But in this platform, they could easily short list the candidates by seeing the portfolios and demo works which will save their time.

## Working Process

**software processing:**

The web-based freelancing app will be made for helping the new skilled freelancer as well as providing the best work to the buyers. For this we will explore all the freelancing marketplace and note down the features which can be helpful for all. Then we will plan according to that exploration and buildup our application. Then we will shortly release our application after some testing periods and take customer feedback. As their requirement we will implement or change features. We will update and maintain the application regularly. After a certain period, there will be nothing to do implement new in the application then we will release the final version of the software and the software developing process will end.

**Features:**

We have multiple option. Customer can buy any ready project and also can give any requirements for making any project. Here members can create their own group and can search freelancer by giving requirement.

**system update:**

If anyone post a new project or job then system will be auto updated and it will display in recent post.

**Performance**:

This application will have more than 90% performance when there are less than ten thousand users at a time. The website will have 99% uptime if there is no server crash. To avoid performance problem and increase uptime, the website has been hosted in "Blue Host" company which is the world's largest hosting provider. This will help all types user to increase their web surfing experience.

**Budget:**

Budget will depend on demand, working time and requirements. Freelancer can fix their payment by talking with customer.