
DBMS Project

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1 Understand and Complete the Description of the Case Study/Problem Domain:

1.1 Purpose

The primary objective of the freelancing website database is to establish a data management system that provides the entire freelancing platform. This database will act as the core repository for storing, retrieving, and managing critical data related to freelancers, clients, projects, transactions, and other essential components of the freelancing ecosystem.

- The website helps to connect freelancers with job opportunities. Freelancers can find work that matches their expertise.
- It helps the clients to find skilled professionals quickly and easily. It's like a match-making service for projects and freelancers.
- It serves as a platform for communication between freelancers and clients.

1.2 Scope

Target Audience for the Freelancing Website Database.

Freelancers: Freelancers, including professionals, independent contractors, and skilled individuals seeking project-based work, are a primary target audience. They will use the database to create and manage their profiles, including personal information, skills, work experience, and project history, facilitating efficient project matching. Freelancers can easily browse and apply for suitable projects, set their project rate range, and manage submission deadlines, aiding them in managing their work schedules effectively. Additionally, they can track their work history and earnings through the system.

Clients: Clients, which can include individuals, businesses, and organizations seeking services or expertise, represent another crucial audience. They will use the database to post detailed project listings, specifying project descriptions, required skills, payment terms, and submission deadlines. Clients can browse freelancer profiles, communicate with potential freelancers, and manage their projects and payments through the system.

1.3 Description

- **User Profiles:** Freelancers can create their profile, which includes their contact details and skills so that they can be contacted by clients for the projects that match their expertise.
- **Project Management:** Projects are documented, with progress tracking to ensure efficient project management. The database keeps track of the start date, deadlines, and status of the project.
- **Financial Record:** Financial transactions are accurately recorded. They include project payments made by clients and fees deducted by us. These records are required for accurate billing and financial reporting.

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- **Reviews and Ratings:** Clients have the ability to provide feedback and ratings for freelancers based on their performance. They can decide which freelancer to choose for the project based on the ratings.
 - **Contract Management:** The database manages contracts between clients and freelancers. It includes the contract terms and conditions, and start/end dates. Contracts are linked to specific projects.
 - **Overview Of Website:** In the Homepage Of the Website It asks for Whether you are a Client Or Freelancer then it asks for Login And Sign up if the User Wants To Sign up Then it asks to create the Email Password then it asks for profile details. And if the user wants to log in it asks for Only Email and Password.
 - If the user is a Client then if he wants to upload a project by clicking on the Create Project Button, then it asks for project details.
 - If the User is a Freelancer and wants to find an appropriate project use the filter function which allows him to select his preferred Skills and find a project according to it.
 - Suppose When the Freelancer wants to upload their work to client then he can upload Drive or Github Repo Link.
 - Then The client can review all Freelancer's work and select which work he wants to finalize and then can do the payment work and then at last give rating to the freelancer.

2 Document the Requirements Collection/ Fact Finding Phase:

2.1 Background Reading/s

References

- [1] FinancesOnline. *Freelance Platforms: Analysis, Features, Benefits, Pricing*. [Online] Available: <https://financesonline.com/freelance-platforms-analysis-features-benefits-pricing/>.
- [2] EngineThemes. *Key Features of a Freelance Site: Part 1*. [Online] Available: <https://www.enginethemes.com/key-features-freelance-site-part-1/>.

- **Project Matching:** The platform facilitates efficient project matching for freelancers, helping them find and apply for projects that match their skills and expertise.
- **Range of Rate :** Freelancers can specify their desired project rates or rate ranges, ensuring transparency in pricing expectations.
- **Submission Deadline Management:** Freelancers can select projects that align with their availability and deadlines, allowing them to plan their work schedules effectively.
- **Work History and Earnings Tracking:** Freelancers can maintain a comprehensive work history within the platform, including records of completed projects, client feedback, and earnings information.
- **Project Listings:** Clients can create detailed project listings on the platform, providing freelancers with project descriptions, scopes, required skills, payment terms, and submission deadlines.
- **Freelancer Search:** Clients have access to a search feature that allows them to explore freelancer profiles efficiently using filters and keywords to find specific skills and expertise.

2.2 Interview/s

2.2.1 Interview plan :

Project Name: Freelancer intermediate website

Participants:

ZALA SHUBHAM (INTERVIEWER)

JOSHI DEV

PANSARA YASH

PARTH SORATHIYA

Date: 19/9/2023

Time: 4 PM

Duration : 1 hr

Place: Cafeteria

Purpose of interview:

Preliminary meeting to gather requirements and identify key features and functionalities for the freelancing website.

Agenda :

- features of users profiles.
- modes of Payment Processing.
- method of review.
- suggestions from interviewee.

2.2.2 Interview summery :

Project Name: Freelancer intermediate website

Participants:

Zala Shubham (Interviewer)

Joshi Dev

Pansara Yash

Sorathiya Parth

Date: 19/9/2023

Time: 4 PM

Duration : 1 hr

Place: Cafeteria

Purpose of interview:

Preliminary meeting to gather requirements and identify key features and functionalities for the freelancing website.

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- Users should be able to create their profiles on the website.
 - There should be option for creating different profiles for freelancers and clients.
 - Email and password of each user should be safely managed.

(action: refer online websites on how to manage passwords in a database)

- Payment modes offered to the freelancers should be fixed rate, hourly rate and milestone-based.
- Payment methods offered to clients should be credit/debit cards, bank transfer and digital wallets.
- Payments should be secure.

(Users will be given choices regarding mode and method of payment. Payments will be processed through secure third-party gateway.)

- Clients should be able to view the status of the projects.

(Project status(To-Do/In Progress/Completed) will be displayed.

- Clients should be able to rate and put reviews for the freelancers.
- There should be a messaging system for communication between clients and freelancers.

(We have included this point as an assumption.)

2.3 Questionnaire/s

2.3.1 Questions:

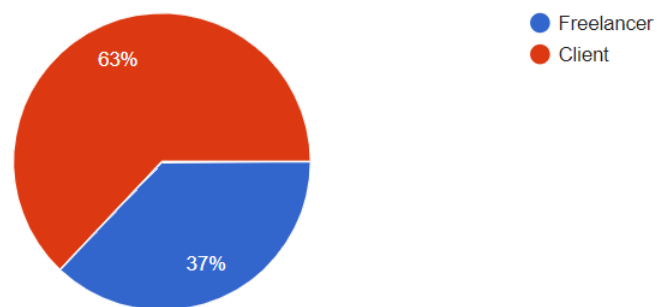
1. What is your primary role on the platform?
 - a. Freelancer
 - b. Client
2. What types of freelance projects are you most interested in or likely to work on?
 - a. Web Development
 - b. Graphic Design
 - c. Writing
 - d. Digital Marketing
 - e. Consulting and Coaching
 - f. Data Analysis and Research
 - g. Photography and Videography
 - h. Audio and Music
 - i. Others
3. Generally, how long does it take for you to find a freelancer or client?
 - a. < 30 mins
 - b. < 1:00 hr
 - c. < 2:00 hrs
 - d. More than 2 hrs
4. What is the average duration of your projects?
 - a. < 1 week
 - b. < 2 weeks
 - c. < 3 weeks
 - d. < 4 weeks
 - e. More than 4 weeks

-
5. What is your average budget? [For Clients]
- a. < Rs. 50,000
 - b. < Rs. 1 lakh
 - c. < Rs. 2 lakhs
 - d. < Rs. 5 lakhs
 - e. More than 5 lakhs
6. What key features do you expect in a freelancing website?
7. What details should be mentioned in the freelancer/client profile?
8. What payment mode would you prefer as a freelancer to receive payments?
- a. Fixed Price
 - b. Hourly Rates
 - c. Milestones
9. What payment method would you prefer as a client to make payments?
- a. Credit/Debit Card
 - b. Bank Transfer
 - c. Digital wallets
10. Are there any other project categories or job types you would like to see on the platform?
11. Suggestions:

2.3.2 Summery:

What is your primary role on the platform?

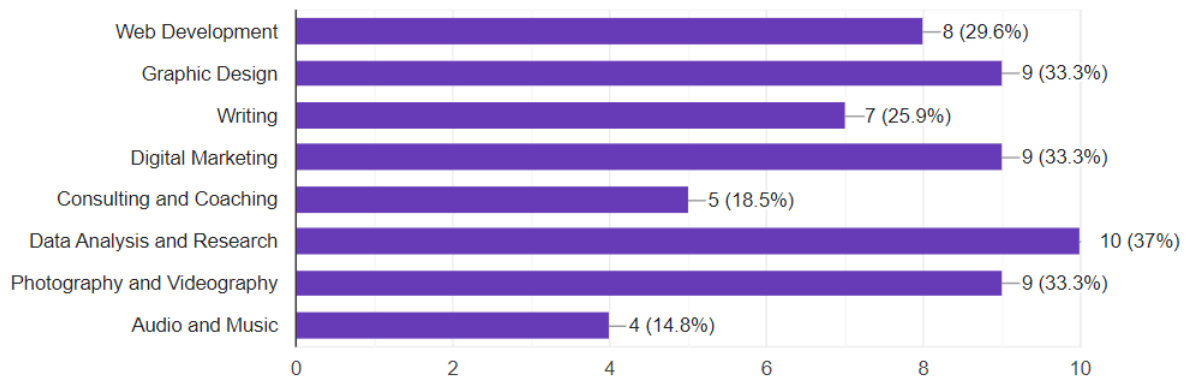
27 responses



What types of freelance projects are you most interested in or likely to work on?

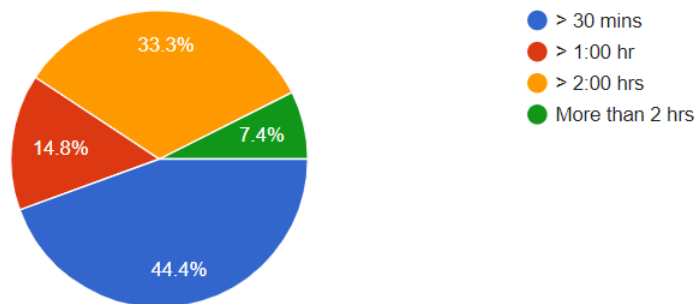
 Copy

27 responses



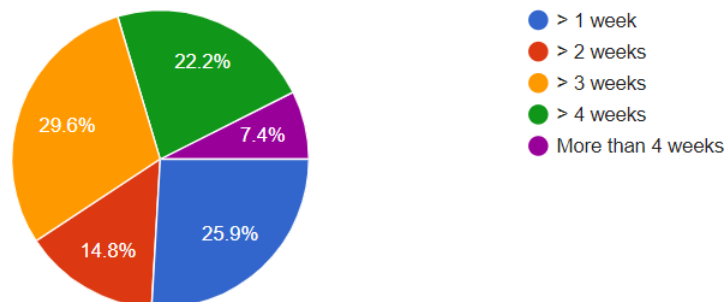
Generally, how long does it take for you to find freelancer or client?

27 responses



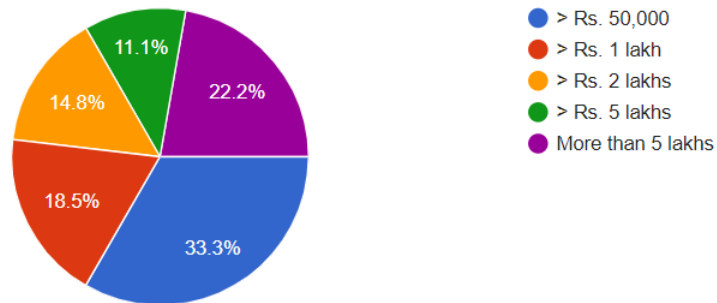
What is the average time of your project?

27 responses



What is your average Budget? [For Clients]

27 responses



What key features do you expect in a freelancing website?

9 responses

Project status

Chat option

Messaging feature

Having control over workload

Should be able to delete profile

Search for freelancers

Searching for projects

Receive quick responses

Chat communication

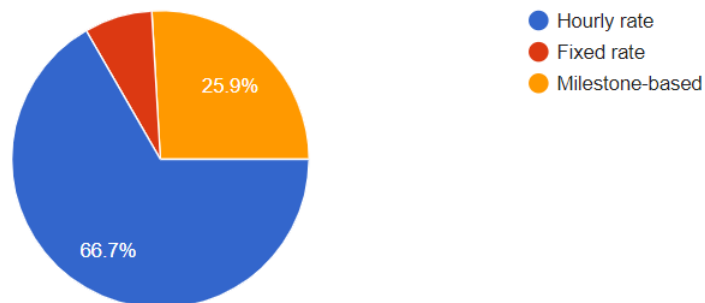
What details should be mentioned in the freelancer/client profile?

10 responses

Rating
Skills
Expertise
Ratings
Phone number
List of projects previously worked on
Area of expertise of the freelancer
Email
Professor achievements

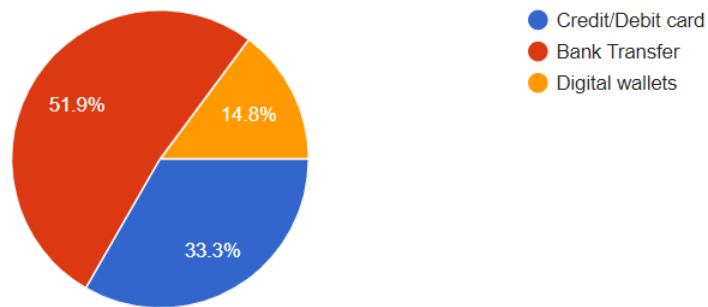
What payment mode would you prefer as a freelancer to receive payments?

27 responses



What payment method would you prefer as a client to make payments?

27 responses



Are there any other project categories or job types would you like to see on the platform?

5 responses

Asset creation

Game development

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-

Yes

Suggestions:

3 responses

No suggestions right now!!

Should have user-friendly interface

More Security in payment process

From the questionnaire we have found that the majority of the users are clients. the users are most interested likely to work on projects related to Data Analysis and Research and least likely to work on projects based on Audio and Music. It normally takes a freelancer/client less than 30 min to find work. Most of the projects last for less than 3 weeks. The average budget for most of the clients is less than Rs 50,000. Majority of the freelancers prefer to be

paid at hourly rates. Majority of the clients prefer to make payments through bank transfer.

3 Create Fact Finding Chart:

Objective	Technique	Subject	Time
User registration with email and password	Background reading	freelancing website	10 min
User account types (Clients/Freelancers)	background reading	freelancing website	10 min
Project budget and deadline	Background reading	given link of reading	1 hr
Display project status	Interview	freelancer	1 hr
Work History tracking	Background reading	given link of reading	1 hour
Chat system for communication	Interview/Questionnaire	both(not included)	1 hour
Payment mode(Fixed price,Hourly rate,Milestones)	Questionnaire	-	24 hour
User profile management	Interview	both client/freelancer	Half Hour each
Freelancer/Project listing and search	Background reading	given link of reading	Half hour
Reviews and Ratings	Interview	both client/freelancer	1 hour
Payment processing through third-party gateway	Interview	1 freelancer	Half hour
Payment methods(Debit/Credit cards,Bank transfer or Digital wallet)	Interview	1 client	Half hour

4 List All Final Functional Requirements:

- **User Registration and Authentication:**

- The platform provides separate login and registration pages for both freelancers and clients, ensuring secure access to their respective profiles.

- **Managing Profiles:**

- **Clients:** Clients can efficiently manage their profiles by adding new projects and providing detailed project descriptions. Additionally, they can include information about their companies or organizations, offering a comprehensive overview of their offerings.
- **Freelancers:** Freelancers have the capability to build and maintain detailed profiles. They can input their personal information, skills, work experience, and project history, enhancing their visibility to potential clients.

- **Efficient Project Matching:**

- The platform facilitates efficient project matching for freelancers. They can easily find and apply for projects that match their skills and expertise.
- Freelancers receive project recommendations that fit their expertise, making it easier for them to find relevant opportunities.

- **Rate Range Setting:**

- * Freelancers can specify their desired project rates or rate ranges.
- * This feature allows freelancers to communicate their pricing expectations to website so that freelancer can get desired ranged project prizing.

- **Submission Deadline Management:**

- * Freelancers can select projects that align with their availability and deadlines.
- * This feature enables freelancers to effectively plan their work schedules and ensure timely project completion.

- **Work History and Earnings Tracking:**

- * Freelancers can maintain a comprehensive work history within the platform, including records of completed projects, client feedback, and earnings information.
- * This feature serves as a valuable record of their professional accomplishments and financial transactions.

– **Project Listings:**

- * Clients can create detailed project listings on the platform, offering a comprehensive overview of their projects.
- * These listings encompass project descriptions, scopes, required skills, payment terms, and submission deadlines, providing freelancers with a clear understanding of project requirements.

– **Freelancer Search:**

- * Clients have access to search feature that allows them to explore freelancer profiles efficiently.
- * Utilizing filters and keywords, clients can pinpoint freelancers with specific skills and expertise tailored to their project needs, streamlining the selection process.

– **Portfolio Showcase:**

- * Freelancers can showcase their portfolios on their profiles. These portfolios may include work samples and client testimonials, enabling freelancers to make a lasting impression on potential clients and build trust through their previous accomplishments.

Out-of-Scope Functionalities of the Database

While the Freelancing Website Database project focuses on delivering core functionalities to support freelancers and project providers, several features and elements are explicitly excluded from the project's scope:

1. **Website Frontend Development:** The project does not encompass the design and development of the website's user interface (UI) and frontend components. This includes the creation of web pages and visual design.
2. **Payment Processing Details:** The project does not get into details of payment processing, such as the integration of specific payment gateways or financial transaction data. It does not specify the complete payment handling process.
3. **Advanced User Features:** Advanced user features beyond basic profile management, project listing, and communication are beyond the project's scope. These may include social networking features, advanced analytics, or premium membership services.
4. **Legal and Regulatory rules:** Compliance with laws related to data privacy, taxation, and employment regulations will require separate legal and regulatory assessments not be provided.

By defining these out-of-scope functionalities, the project maintains focus on its core objectives, allowing for clear project management and resource allocation while acknowledging the need for additional efforts and projects in these areas as needed.

5 User Classes and Characteristics:

- **Admins:**

Responsibilities: Admins have full control over the database and are essentially the backbone of the website. They are responsible for overseeing the entire system. Their key responsibilities include:

- * **User Management:** They can add, modify, or remove user accounts. This includes both freelancers and clients.
- * **Project Management:** Admins can oversee and manage the projects listed on the website. They may have the authority to edit or delete projects if necessary.
- * **Contract Management:** They are in charge of ensuring that contracts between freelancers and clients are properly executed and maintained.

- **Freelancers:**

Responsibilities: Freelancers are the skilled individuals who offer their services through the website. Their main responsibilities include:

- * **Profile Creation:** They create detailed profiles showcasing their skills, qualifications, and portfolio to attract potential clients.
- * **Project Selection:** Freelancers can browse and select projects that match their expertise and interests.
- * **Project Completion:** They work on the selected projects and complete them as per the client's requirements.

- **Client:**

Responsibilities: Clients are individuals or businesses looking to get specific projects done. Their key responsibilities include:

- * **Project Posting:** Clients can post detailed project descriptions on the website, specifying their requirements and budget.
- * **Freelancer Selection:** They can browse through freelancer profiles and select the most suitable candidate for their project.
- * **Rating and Feedback :** Clients can provide feedback and ratings for freelancers, helping build a reputation system on the website.

6 Privileges:

- **Admins:** They have access to all the modules and functions.
- **Freelancers:** Access to available projects, project details, client details and contract details.
- **Client:** Access to project posting, project details, details of freelancers and payment processing.

7 Assumptions

- The website just provides contact information of freelancers and clients. It does not provide a mode of communication.
- The user accounts require email verification for creating profiles and changing passwords.
- The freelancers receive a notification when they are selected for a new project and when they are paid. The clients get a notification when any freelancer is interested in their project and when the on-going project status changes.
- All freelancers receive payment according to fixed rates.
- Financial transactions are handled using a secure third-party gateway.
- Users can make payments through multiple methods like credit/debit cards, bank transfer or digital wallets.
- Reviews and ratings given by the clients are genuine.
- There is a customer care service for dealing with the issues faced by the users.

8 Appendix :

- Task 1: Understand and complete the description of the case study/problem Domain :
 - Purpose: Shubham Zala
 - Scope: Parth Sorathiya,Paawan Vala
 - Description : Shubham Zala,Parth Sorathiya,Paawan Vala
- Task 2 : Document the Requirements Collection/ Fact Find- ing Phase :
 - Background Reading : Parth Sorathiya
 - Interview : Heer Dharsandiya , Shubham Zala
 - Questionnaire : Heet Dipeshe , Heer Dharsandiya , Shubham Zala
- Task 3 : Create Fact Finding chart : Heet Dipeshe , Heer Dharsandiya
- Task 4 : List All Final Functional Requirements : Paawan Vala
 - Out Of Scope : Parth Sorathiya, Paawan Vala
- Task 5 : User Classes and Characteristics : Parth Sorathiya, Paawan Vala
- Task 6 Privileges : Heet Dipeshe,Heer Dharsandiya
- Task 7 Assumption : Heet Dipeshe,Heer Dharsandiya