

Faculty of Engineering and Applied Science Final Project Phase #3 SOFE 3700U - Data Management Systems Group #5

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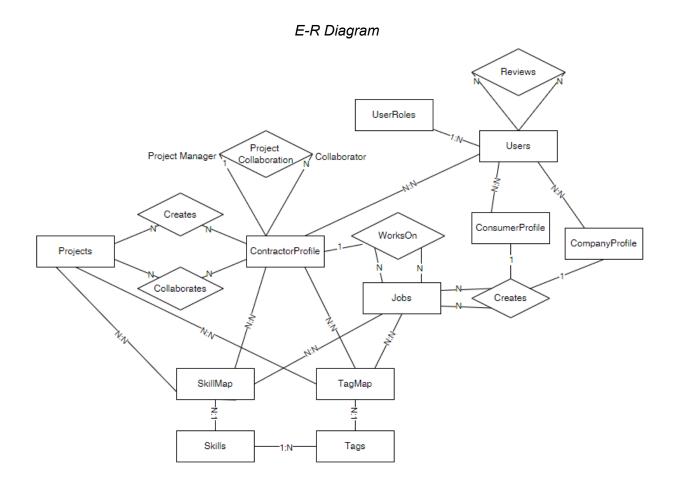
ABSTRACT

In the contemporary professional landscape, the demand for freelance services has surged, driven by a dynamic economy and evolving work preferences. However, existing platforms such as Freelance.com and Fiverr.com exhibit limitations, such as regional focus and gaps in catering to specific local services. Recognizing these challenges, our team has embarked on a journey to create a comprehensive freelance marketplace that not only transcends geographical boundaries but also fosters a fair and competitive environment for collaboration.

The primary objective is to provide freelancers with a platform to effectively showcase their skills, fostering opportunities for collaboration with businesses of all sizes. Simultaneously, we aim to empower small businesses by offering them access to a pool of skilled freelancers, facilitating cost-effective solutions. Through a meticulous design and implementation strategy, our goal is to create a transformative platform that bridges the gap between freelancers and consumers.

This report provides an in-depth exploration of the development process behind our innovative Freelance Marketplace, aimed at transforming the way freelancers and clients engage in collaborative ventures.

PROJECT DESIGN:



Projects Entity:

- Project Manager (1:N Relationship): Each project is created by a Project Manager, and the relationship indicates that a single Project Manager can be associated with many projects.
- Collaboration (N:N Relationship): Projects involve collaboration between Project Managers and Collaborators. This many-to-many relationship signifies that multiple Project Managers can collaborate with multiple Collaborators on various projects.
- Contractor Profiles (N:N Relationship): Projects also have a collaborative relationship with Contractor Profiles, indicating that multiple Contractor Profiles can be associated with multiple projects.
- Skill Mapping (N:N Relationship): Projects are linked to skills through the SkillMap entity. This implies that many skills can be associated with multiple projects, and vice versa.

UserRoles Entity:

• Users Relationship (1:N): UserRoles have a one-to-many relationship with Users, indicating that a single role can be assigned to multiple users.

Users Entity:

- Reviews (1:N Relationship): Users can write multiple reviews, creating a one-to-many relationship between Users and Reviews.
- Jobs (N:N Relationship): Users work on many jobs, and jobs involve multiple users. This many-to-many relationship signifies that many users can work on many jobs.
- ConsumerProfile (1:1 Relationship): Each user has one Consumer Profile, representing a one-to-one relationship.
- CompanyProfiles (1:N Relationship): Users can create multiple Company Profiles, establishing a one-to-many relationship.

ContractorProfile Entity:

- Collaboration with Projects (N:N Relationship): ContractorProfiles collaborate with multiple projects, and projects involve collaboration with multiple Contractor Profiles, indicating a many-to-many relationship.
- Works on Jobs (1:N Relationship): Each Contractor Profile can work on many jobs, creating a one-to-many relationship.

Jobs Entity:

• Skill Mapping (N:N Relationship): Jobs are associated with skills through the SkillMap entity, representing a many-to-many relationship.

SkillMap Entity:

Maps Skills to Jobs and Projects (N:1 Relationship): SkillMap maps many skills to one
job or project, indicating a many-to-one relationship.

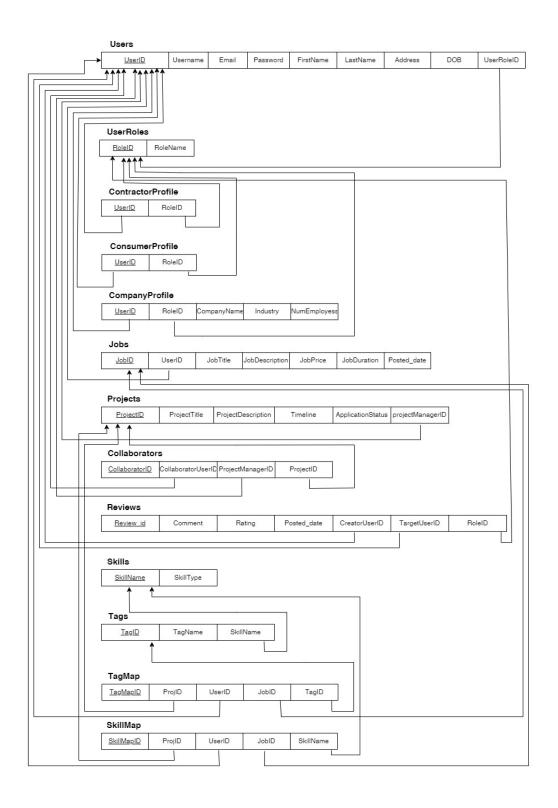
Tags Entity:

 Mapped to Jobs (N:1 Relationship): Tags are mapped to jobs through the TagMap entity, signifying that many tags can be associated with one job.

ConsumerProfile and CompanyProfile Entities:

• Creates Jobs (1:N Relationship): Both ConsumerProfile and CompanyProfile entities can create multiple jobs, establishing a one-to-many relationship.

SCHEMA RELATION DIAGRAM



IMPLEMENTATION TIMELINE

Week 1 (November 6-12): Develop the Platform's Backend

- Objective: Lay the Foundation for Robust Functionality
- Activities:
 - Prioritize user registration, login, and profile creation functionalities.
 - Establish a secure and scalable backend infrastructure.
 - Integrate necessary security measures to protect user data.

Key Milestones:

- Backend architecture finalized.
- User registration and login functionalities implemented.
- Security protocols integrated.

Week 2 (November 13-19): Build the Front End and Features

- Objective: Transform Design into User-Friendly Interface
- Activities:
 - Translate wireframes into responsive and user-friendly front-end development.
 - Implement core features, such as job posting, search, and communication tools.
 - Conduct continuous testing to identify and resolve frontend issues.

Key Milestones:

- User interface development completed.
- Core features implemented.
- Initial round of frontend testing concluded.

Week 3 (November 20-22): Test and Debug for Seamless User Experience

- Objective: Ensure a Flawless and Intuitive User Experience
- Activities:
 - Conduct extensive testing of the entire platform, focusing on usability, performance, and security.
 - Address any bugs, glitches, or user experience issues promptly.
 - Prepare for a soft launch or beta testing phase to gather user feedback for further improvements.

Kev Milestones:

- Comprehensive platform testing completed.
- Identified issues addressed.
- Beta testing phase initiated.

Progress Check:

- Regular team meetings to assess progress and address any roadblocks.
- Continuous collaboration between backend and frontend development teams.

Quality Assurance:

- Implementation of quality control measures to ensure adherence to design and functionality standards.
- User acceptance testing to verify alignment with user expectations.

Related Work

Freelance.com: Acknowledged as a significant player, Freelance.com has made strides in connecting freelancers with clients. However, its primary focus on the French market creates limitations for international users. Our platform seeks to bridge this gap by providing currency flexibility and catering to a broader international audience.

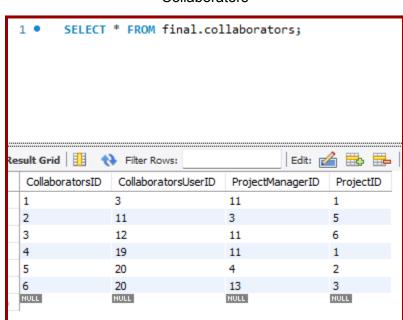
Fiverr.com: Recognized for its vast user base and diverse services, Fiverr dominates the freelance marketplace. However, it falls short in effectively catering to local skilled trades services, such as plumbing or electrician work. Our platform aims to differentiate itself by addressing this gap, ensuring that users can find and offer a wide range of services, from digital tasks to local skilled trades.

Unique Selling Proposition (USP):

Our platform not only provides a global reach and currency flexibility but also ensures that it caters to the diverse needs of users, including those seeking and offering specialized local services. The chosen technology stack, including PHP, JSON, HTML, CSS, XAMPP-MySQL Database, and REST API, is a strategic foundation for robust functionality.

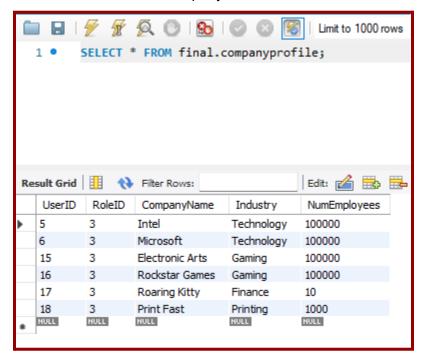
Entity Diagram & Views

The collaborative nature of the platform is depicted in the Collaborators, CompanyProfile, ConsumerProfile, Jobs, Projects, Reviews, SkillMap, Skills, TagMap, Tags, UserRoles, and Users entities. The ten different views offer diverse perspectives for enhanced usability, catering to the needs of both freelancers and consumers.

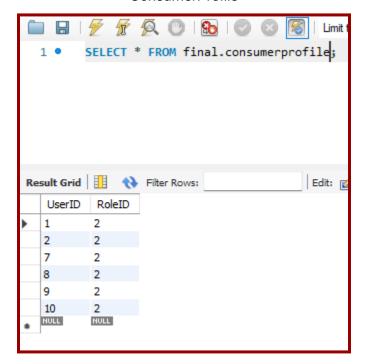


Collaborators

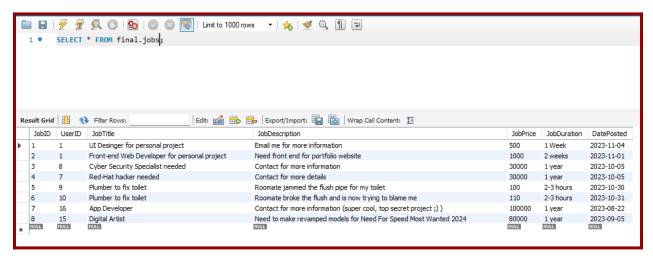
CompanyProfile



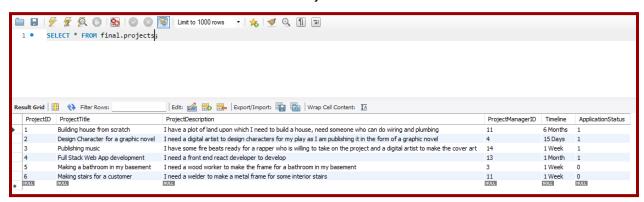
ConsumerProfile



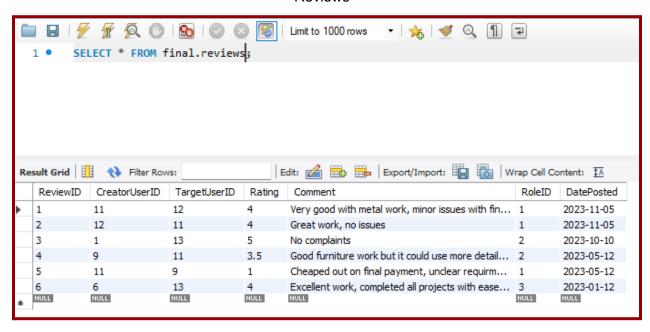
Jobs



Projects



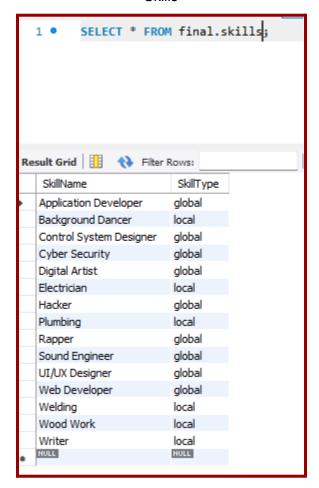
Reviews



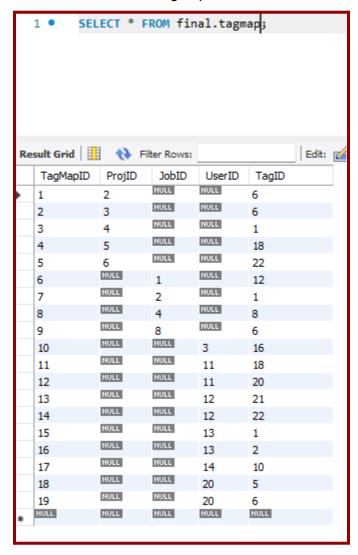
SkillMap



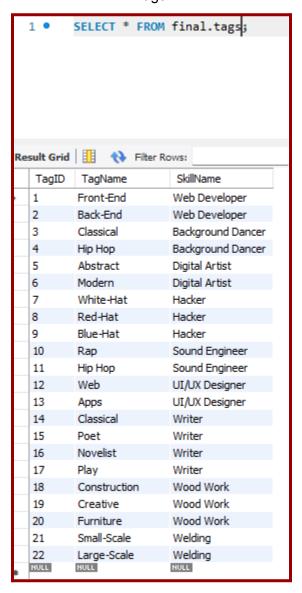
Skills



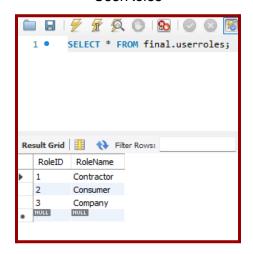
TagMap



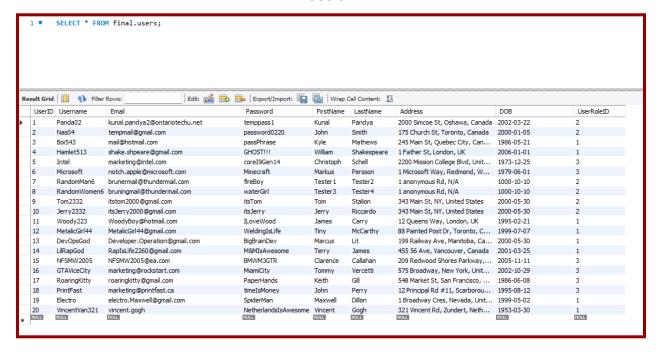
Tags



UserRoles

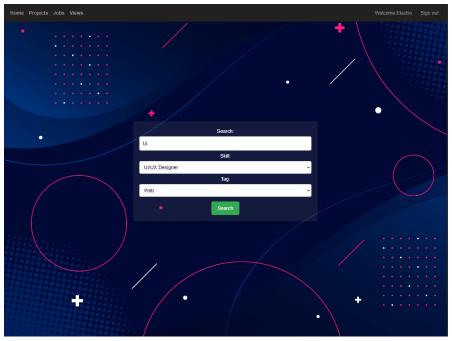


Users

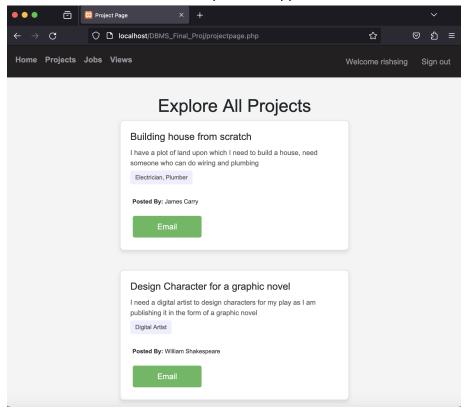


Screenshots with Captions

1. A welcoming entry point to our Freelance Marketplace, designed for an intuitive user experience that immediately engages visitors. Logged in.

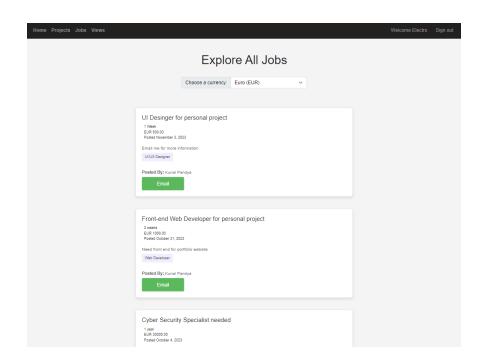


2. Explore and discover active project listings, each providing a detailed overview, connecting freelancers with potential opportunities.



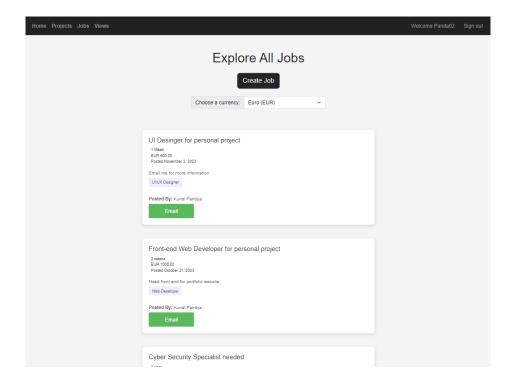
3. Browse through a dynamic array of active job listings, offering a comprehensive view of available freelance opportunities across diverse industries.

Current User: Electro; User Role: Contractor



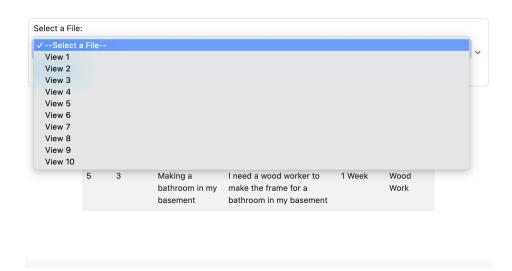
3. Browse through a dynamic array of active job listings, offering a comprehensive view of available freelance opportunities across diverse industries.

Current User: Panda02; User Role: Consumer; Session Permission: View & Create

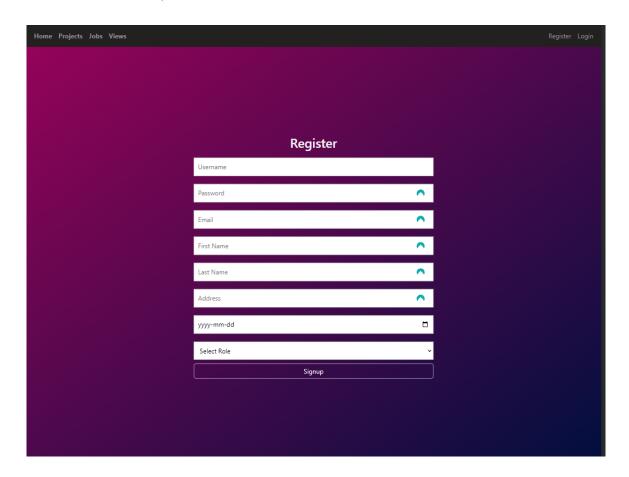


4. Access 10 different views of the database effortlessly with a user-friendly drop-down menu, offering diverse perspectives for enhanced usability

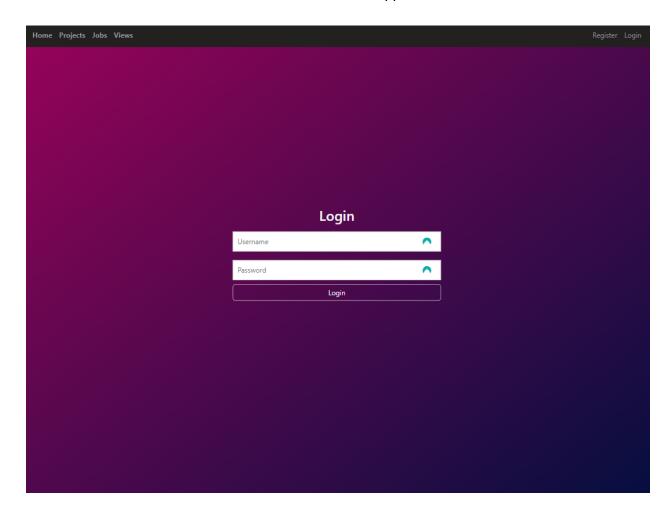




5. Secure access to your personalized account, ensuring a seamless and protected experience for freelancers and businesses alike.



5. Effortlessly join our Freelance Marketplace community by creating an account, unlocking a world of collaboration and opportunities.



Addressing Areas for Growth and Enhancement in the Platform

Feedback Collection	- Emphasize the importance of continuous feedback collection post-launch. - Implement mechanisms for users to share insights and suggestions effortlessly.
Performance Metrics	 Monitor platform performance metrics such as loading times and server responsiveness. Establish a feedback loop for users to report performance-related issues.
Feature Enhancements	 Acknowledge that features, once live, can be further enhanced based on user interaction. Plan for post-launch feature updates to keep the platform dynamic and relevant
Scalability Measures	- Anticipate the growth of users and data; outline plans for scalability. - Ensure the platform architecture is adaptable to handle increased user loads.
Security Measures	 Address any security concerns that may arise during the beta testing phase. Communicate proactively about the measures in place to protect user data.

CONCLUSION

In conclusion, the project's unique selling proposition lies in providing a global, flexible, and comprehensive platform that addresses the limitations of existing freelance service providers. The implementation timeline reflects our strategic approach, focusing on a robust backend, user-friendly frontend, and seamless testing for a flawless user experience. The chosen technology stack ensures a strong foundation for functionality and scalability. Acknowledging industry giants, Freelance.com and Fiverr.com, we have identified and addressed their limitations, creating a platform that combines global reach with the flexibility to meet diverse user needs. In essence, the Freelance Marketplace is not just a project; it's an evolving ecosystem that adapts to user needs. We invite freelancers, businesses, and collaborators to join us on this transformative journey, where opportunities for fair and competitive collaboration abound.

Git-Hub Link

https://github.com/kunalpanda/DBMS_Final_Proj