

Domain Driven Design

Group Number : 19

Project Idea : Freelancing system

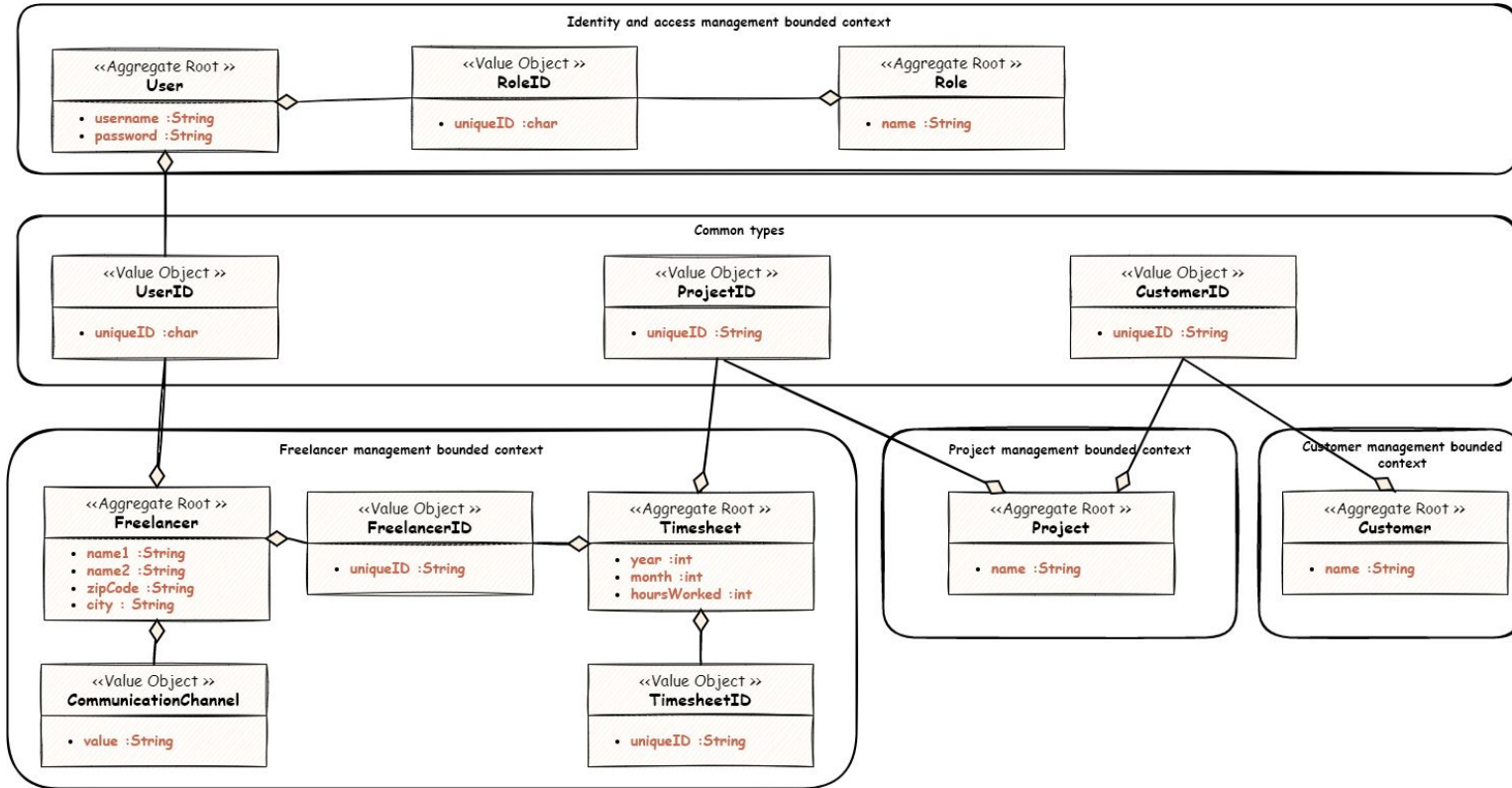
GRATIS AGENCY (company name):

In **Domain-Driven Design** (DDD) terminology, the Gratis Agency project can be described as a web application that provides a platform for freelancers to connect with clients and offer their services. The project's main domain is freelancing, and its subdomains include user management, project management, payment processing, and communication.

The core domain of Gratis Agency is the matching of freelancers with clients, which involves user registration, project creation, and bidding. The user management subdomain encompasses authentication, authorization, and profile management, allowing users to maintain their personal and professional information. The project management subdomain includes features such as project creation, project search, and bidding, enabling clients to post projects and receive proposals from freelancers.



Domain Driven Design Diagram



The payment processing subdomain handles payment transactions between clients and freelancers, including payment methods, invoicing, and escrow services. The communication subdomain provides messaging features for users to communicate with each other within the platform, facilitating collaboration and project management.

The Gratis Agency project's main objectives are to provide a user-friendly, secure, and efficient platform for freelancers to offer their services and for clients to find the right talent for their projects. The project's success is dependent on effectively addressing the complex requirements of the freelancing industry and creating a seamless user experience for all parties involved.

a) Bounded Contexts:

- i) Identity and access management bounded context: This bounded context manages user authentication, authorization, and profile management.
- ii) Freelancer management bounded context: This bounded context manages the freelancers' skills, experience, and profile management.
- iii) Job management bounded context: This bounded context manages the job posting, bidding, and payment processing.



b) Context Mappings:

- i) The Identity and Access Management Bounded Context will have an upstream relationship with the Freelancer and Job Management Bounded Contexts.
- ii) The Freelancer Management Bounded Context will have a downstream relationship with the Job Management Bounded Context.
- iii) The Job Management Bounded Context will have a downstream relationship with both the Identity and Access Management and Freelancer Management Bounded Contexts.

c) Entities, Value Objects, and Services:

Identity and Access Management Bounded Context:

Entities: User

Value Objects: Email, Password, Profile

Services: Authentication, Authorization, Profile Management

Freelancer Management Bounded Context:

Entities: Freelancer

Value Objects: Skills, Experience, Profile

Services: Profile Management



Job Management Bounded Context:

Entities: Job, Bid, Payment

Value Objects: Title, Description, Deadline, Budget

Services: Job Posting, Bidding, Payment Processing

d) Cardinality Ratios:

One User can have one Profile

One Freelancer can have one Profile

One Job can have many Bids

One Bid can be associated with one Job

e) Aggregates:

Identity and Access Management Bounded Context:

Aggregate: User, Profile

Freelancer Management Bounded Context:

Aggregate: Freelancer, Profile

Job Management Bounded Context:

Aggregate: Job, Bid, Payment

