Freelancer Project Management System (FPMS)

Gerardo Rivera & Jesse Hernandez-Tovar
CSE 111

System Description

The FPMS is designed to solve common issues faced by freelancers and contractors:

- Time-consuming bookkeeping for multiple contracts, including tracking hours, expenses, and project details
- Difficulty in keeping clients updated and informed
- Client communication being lost through spam emails or texts

System Description Cont.

The FPMS provides a single platform to handle all aspects of freelancing/contract work:

Easy client to contractor communication

Seamless messaging & updates

Easy bookkeeping and sharing

Track finances & share data

Collaboration features

Role assignment & progress viewing

Teams

Use Cases Description

Client

Focus on oversight and funding.

- Create Project
- Assign Task
- View Progress
- Communicate
- Make Payment

Freelancer

Focus on execution and reporting.

- View Assigned Task
- Update Task Status
- Submit Work
- Communicate with Client

Use Case Example

Susy Kitchen

New Client

Registers & Creates Project

Adds Freelancer to Project

Assigns Task (Defines Deliverable)

Views Assigned Tasks/Progress

Communicates (Sends Confirmation Message)

Checks Dashboard

Sees Assigned Tasks (List Waiting)

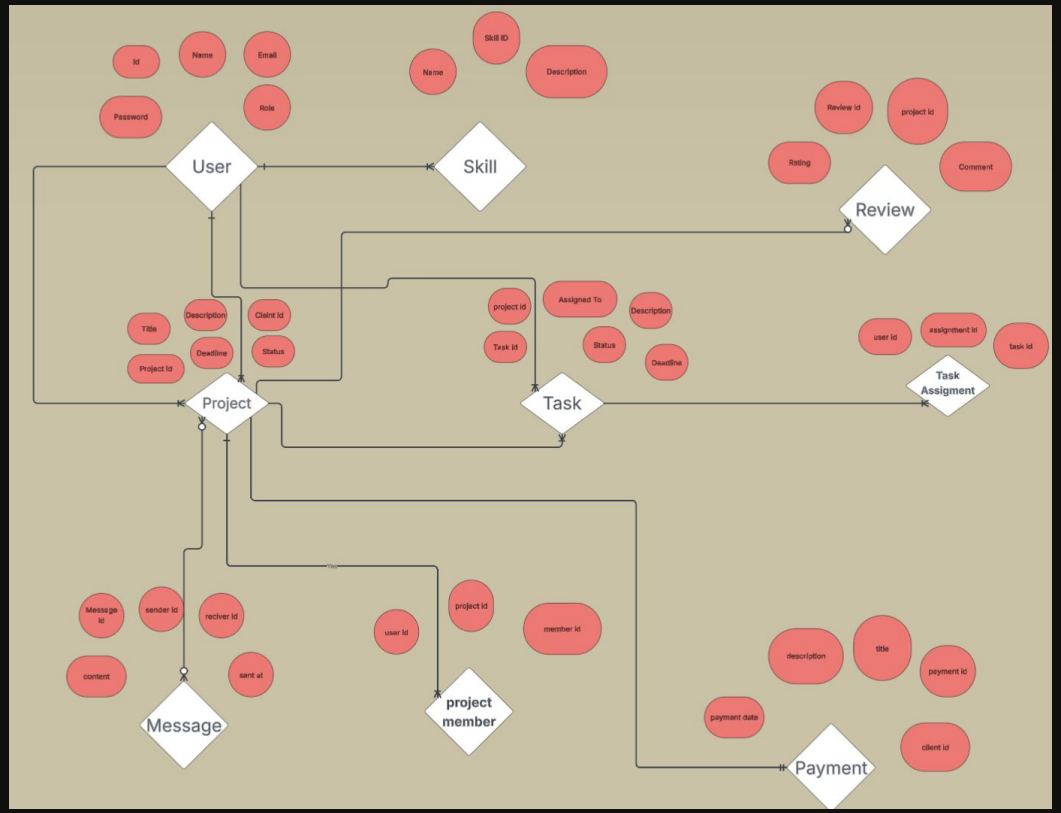
Finishes & Updates Tasks

Sends Confirmation Message with Updates

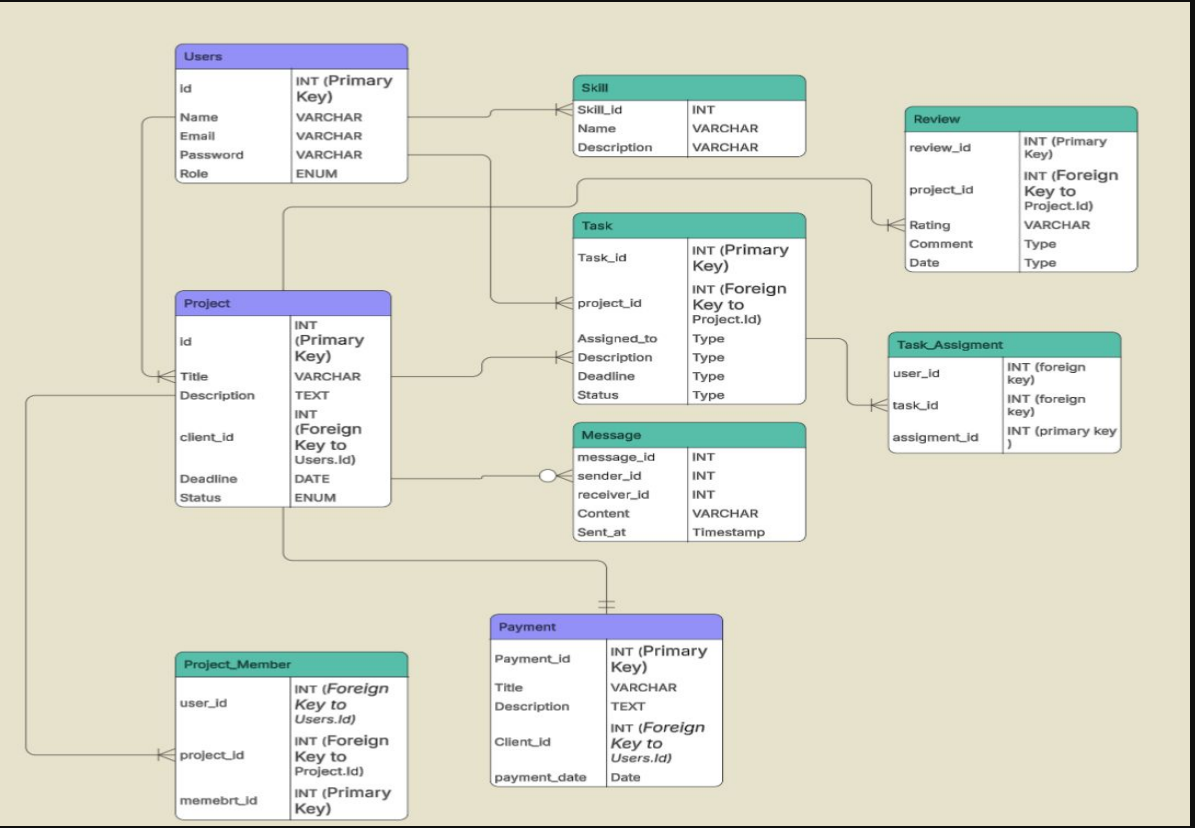
Jeff Cups

Freelancer

E/R Diagram


id
Name
Email
Password
Role
User
Skill ID
Name
Description
Skill
Review id
project id
Rating
Comment
Review
Description
Clint id
Title
Deadline
Status
Project Id
Project
project id
Assigned To
Description
Task id
Status
Deadline
Task
user Id
assignment id
task id
Task Assigment
Message id
sender id
reciver id
content
sent at
Message
user Id
project id
member id
project member
description
title
payment id
payment date
client id
Payment

Relational Schema



Implementation Details

Frontend

- Html
- CSS
- JavaScript

Backend

- Server: node express
- Database: SQL

Thank you!

Class Entities

User

User_id
Name
Email
Password
Role

Project

Project_id
Title
Description
Client_id

Task

Task_id
Project_id
Assigned_to
Description
Deadline
Status

Client

Client_id
Name
Email
Password
Project_id

Task_Assigment

Client_id
Name
Email
Password
Project_id

Payment

Payment_id
Project_id
Amount
Date
Status

Message

Message_id
Sender_id
Review_id
Content
Timestamp

Review

Review_id
Project_id
Rating
Comment
Date

Project_Member

User_id
Project_id
Member_id