Freelenso

Project Overview

FREELENSO is a Django-based freelance marketplace designed to connect clients with freelancers for various services like web development, graphic design, content writing, and more. The platform allows clients to post projects, receive proposals from freelancers, and manage payments securely.

```
The various tables used:
```

```
User Table
users (
 id SERIAL PRIMARY KEY,
 username VARCHAR(100) UNIQUE NOT NULL,
  email VARCHAR(255) UNIQUE NOT NULL,
  password_hash VARCHAR(255) NOT NULL,
  user_type VARCHAR(10) CHECK (user_type IN ('freelancer', 'client')) NOT NULL,
  skills TEXT,
  profile_description TEXT,
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
)
Table projects
projects (
  id SERIAL PRIMARY KEY,
  client_id INT REFERENCES users(id) ON DELETE CASCADE,
  title VARCHAR(255) NOT NULL,
  description TEXT NOT NULL,
  budget DECIMAL(10,2) NOT NULL,
  deadline DATE NOT NULL,
  status VARCHAR(20) CHECK (status IN ('open', 'in_progress', 'completed', 'cancelled')) NOT
NULL,
```

created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP

)

```
Table Proposals
```

```
proposals (
  id SERIAL PRIMARY KEY,
  project_id INT REFERENCES projects(id) ON DELETE CASCADE,
  freelancer_id INT REFERENCES users(id) ON DELETE CASCADE,
  bid_amount DECIMAL(10,2) NOT NULL,
  cover_letter TEXT,
  status VARCHAR(20) CHECK (status IN ('pending', 'accepted', 'rejected')) NOT NULL,
 created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
)
Table Payments
payments (
  id SERIAL PRIMARY KEY,
 project_id INT REFERENCES projects(id) ON DELETE CASCADE,
  client_id INT REFERENCES users(id) ON DELETE CASCADE,
  freelancer_id INT REFERENCES users(id) ON DELETE CASCADE,
  amount DECIMAL(10,2) NOT NULL,
  status VARCHAR(20) CHECK (status IN ('escrow', 'released', 'disputed')) NOT NULL,
 created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
)
```

Sample data in each table

User table

| | id | username | email | password_hash | user_type | skills | profile_description | created_at |
|---|------|---------------|-------------------|---------------|------------|----------------------------------|---------------------------------------|---------------------|
| | 1 | john_doe | john@example.com | hashed_pass_1 | dient | NULL | Business Owner | 2025-02-28 09:08:03 |
| | 2 | alice_dev | alice@example.com | hashed_pass_2 | freelancer | Python, Django, JavaScript | Experienced Web Developer | 2025-02-28 09:08:03 |
| • | 3 | mark_writer | mark@example.com | hashed_pass_3 | freelancer | Content Writing, SEO | Professional Content Writer | 2025-02-28 09:08:03 |
| | 4 | susan_dient | susan@example.com | hashed_pass_4 | dient | NULL | Entrepreneur looking for quality work | 2025-02-28 09:08:03 |
| | 5 | jane_designer | jane@example.com | hashed_pass_5 | freelancer | Graphic Design, Photoshop, Figma | Creative Graphic Designer | 2025-02-28 09:08:03 |
| | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Project table

| | id | dient_id | title | description | budget | deadline | status | created_at |
|---|------|----------|------------------------|--------------------------------------|---------|------------|-------------|---------------------|
| • | 1 | 1 | Website Development | Need a responsive website. | 1500.00 | 2025-03-10 | open | 2025-02-28 09:08:21 |
| | 2 | 4 | SEO Blog Writing | Write 10 SEO-friendly blogs. | 500.00 | 2025-03-15 | open | 2025-02-28 09:08:21 |
| | 3 | 1 | Logo & Branding | Create a modern logo & branding kit. | 700.00 | 2025-03-20 | in_progress | 2025-02-28 09:08:21 |
| | 4 | 4 | Landing Page UI Design | Need a sleek UI for landing page. | 900.00 | 2025-03-18 | completed | 2025-02-28 09:08:21 |
| | HULL | MULL | HULL | NULL | NULL | HULL | NULL | NULL |

Project Proposals

| | id | project_id | freelancer_id | bid_amount | cover_letter | status | created_at |
|---|------|------------|---------------|------------|--|----------|---------------------|
| • | 1 | 1 | 2 | 1400.00 | I have 5 years of experience in Django and fro | pending | 2025-02-28 09:08:29 |
| | 2 | 1 | 5 | 1300.00 | I am a full-stack developer with experience in U | accepted | 2025-02-28 09:08:29 |
| | 3 | 2 | 3 | 450.00 | I am a professional content writer with 3+ year | accepted | 2025-02-28 09:08:29 |
| | 4 | 3 | 5 | 650.00 | I can create a modern and minimalistic branding | pending | 2025-02-28 09:08:29 |
| | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Table Payments

| | id | project_id | freelancer_id | bid_amount | cover_letter | status | created_at |
|---|------|------------|---------------|------------|--|----------|---------------------|
| ١ | 1 | 1 | 2 | 1400.00 | I have 5 years of experience in Django and fro | pending | 2025-02-28 09:08:29 |
| | 2 | 1 | 5 | 1300.00 | I am a full-stack developer with experience in U | accepted | 2025-02-28 09:08:29 |
| | 3 | 2 | 3 | 450.00 | I am a professional content writer with 3+ year | accepted | 2025-02-28 09:08:29 |
| | 4 | 3 | 5 | 650.00 | I can create a modern and minimalistic branding | pending | 2025-02-28 09:08:29 |
| | HULL | NULL | NULL | NULL | HULL | NULL | NULL |

The Join query that you are about to run

1. INNER JOIN - Get All Proposals with Project & Freelancer Details

SELECT p.id AS proposal_id,

u.username AS freelancer,

p.bid_amount,

p.status,

proj.title AS project_name

FROM proposals p

INNER JOIN users u ON p.freelancer_id = u.id

INNER JOIN projects proj ON p.project_id = proj.id;

Purpose: Retrieves all proposals, showing freelancer name, bid amount, proposal status, and project title.

| | proposal_id | freelancer | bid_amount | status | project_name |
|---|-------------|---------------|------------|----------|---------------------|
| ١ | 1 | alice_dev | 1400.00 | pending | Website Development |
| | 2 | jane_designer | 1300.00 | accepted | Website Development |
| | 3 | mark_writer | 450.00 | accepted | SEO Blog Writing |
| | 4 | jane_designer | 650.00 | pending | Logo & Branding |

LEFT JOIN - Get All Projects and Their Assigned Freelancers (If Any)

SELECT proj.id AS project_id,

proj.title,

proj.status,

u.username AS assigned_freelancer

FROM projects proj

LEFT JOIN proposals p ON proj.id = p.project_id AND p.status = 'accepted'

LEFT JOIN users u ON p.freelancer_id = u.id;

Lists all projects, including freelancers assigned to them (if accepted). Projects without a freelancer will show NULL.

| | project_id | title | status | assigned_freelancer |
|---|------------|------------------------|-------------|---------------------|
| ١ | 1 | Website Development | open | jane_designer |
| | 2 | SEO Blog Writing | open | mark_writer |
| | 3 | Logo & Branding | in_progress | NULL |
| | 4 | Landing Page UI Design | completed | HULL |

RIGHT JOIN - Find Freelancers Who Have Submitted Proposals

SELECT

u.username AS freelancer,
p.bid_amount,
proj.title AS project_name
FROM proposals p
RIGHT JOIN users u ON p.freelancer_id = u.id
JOIN projects proj ON p.project_id = proj.id;

Purpose: Retrieves freelancers who have submitted proposals, showing their bid amount and project name.

| | freelancer | bid_amount | project_name | |
|---|---------------|------------|---------------------|--|
| ١ | alice_dev | 1400.00 | Website Developmen | |
| | jane_designer | 1300.00 | Website Development | |
| | mark_writer | 450.00 | SEO Blog Writing | |
| | jane_designer | 650.00 | Logo & Branding | |

FULL OUTER JOIN - Get All Projects and Payments (Even If No Payment Yet)

```
SELECT
proj.id AS project_id,
proj.title,
p.amount,
p.status AS payment_status
FROM projects proj
LEFT JOIN payments p ON proj.id = p.project_id
```

UNION

```
SELECT
proj.id AS project_id,
proj.title,
p.amount,
p.status AS payment_status
FROM projects proj
RIGHT JOIN payments p ON proj.id = p.project_id;
```

Purpose: Retrieves all projects along with payment details, even if payment is not made yet.

| | project_id | title | amount | payment_status |
|---|------------|------------------------|---------|----------------|
| • | 1 | Website Development | 1300.00 | escrow |
| | 2 | SEO Blog Writing | 450.00 | released |
| | 3 | Logo & Branding | 700.00 | escrow |
| | 4 | Landing Page UI Design | 900.00 | released |