Entities

**1. User**

Represents both freelancers and clients.

| **Column** | **Type** | **Notes** |
| --- | --- | --- |
| id | PK |  |
| fname | VARCHAR |  |
| lname | VARCHAR |  |
| email | UNIQUE |  |
| password | VARCHAR | Hashed |
| role | ENUM | ['admin', 'client', 'freelancer'] |
| is\_email\_verified | BOOLEAN |  |
| is\_banned | BOOLEAN |  |
| created\_at | DATETIME |  |

**2. Profile**

Extra details per role. Optional fields depending on user role.

Relation 1 : each user has 1 profile and each profile related to 1 user (1:1)

| **Column** | **Type** | **Notes** |
| --- | --- | --- |
| id | PK |  |
| user\_id | FK → User | UNIQUE |
| bio | TEXT |  |
| profile\_pic | VARCHAR | File path |
| company\_name | VARCHAR | For Clients only |
| company\_logo | VARCHAR | For Clients only |
|  |  |  |

**3. Skill**

Predefined skill list.

| **Column** | **Type** |
| --- | --- |
| id | PK |
| name | VARCHAR (UNIQUE) |

**4. UserSkill (M:N: user has many skills)**

**Relation 2 :** User M–N Skill

| **Column** | **Type** |
| --- | --- |
| user\_id | FK → User |
| skill\_id | FK → Skill |
| PRIMARY KEY (user\_id, skill\_id) |  |

**5. Project**

Portfolio projects added by freelancers.

Relation 3: User 1–M Project (each project depend to one user)

| **Column** | **Type** |
| --- | --- |
| id | PK |
| user\_id | FK → User |
| title | VARCHAR |
| description | TEXT |
| attachment | VARCHAR |

**6. JobCategory**

| **Column** | **Type** |
| --- | --- |
| id | PK |
| name | VARCHAR (UNIQUE) |

**7. JobTag**

| **Column** | **Type** |
| --- | --- |
| id | PK |
| name | VARCHAR (UNIQUE) |

**8. Job**

**Relation 4:** User (client) 1–M Job

| **Column** | **Type** | **Notes** |
| --- | --- | --- |
| id | PK |  |
| client\_id | FK → User |  |
| title | VARCHAR |  |
| description | TEXT |  |
| budget | DECIMAL |  |
| deadline | DATETIME |  |
| category\_id | FK → JobCategory |  |
| status | ENUM | ['open', 'closed', 'in progress', 'completed'] |
| created\_at | DATETIME |  |

**9. JobTagMap (M:N)**

**Relation 5**

| **Column** | **Type** |
| --- | --- |
| job\_id | FK → Job |
| tag\_id | FK → JobTag |
| PRIMARY KEY (job\_id, tag\_id) |  |

**10. Proposal**

**Relation 6**

| **Column** | **Type** | **Notes** |
| --- | --- | --- |
| id | PK |  |
| job\_id | FK → Job |  |
| freelancer\_id | FK → User |  |
| price | DECIMAL | Can differ from job budget |
| message | TEXT | Cover letter |
| portfolio\_url | VARCHAR | Optional attachment |
| status | ENUM | ['submitted', 'under review', 'accepted', 'rejected'] |
| created\_at | DATETIME |  |

**11. Contract**

**Relation 7**

Created when proposal is accepted.

| **Column** | **Type** |
| --- | --- |
| id | PK |
| proposal\_id | FK → Proposal |
| client\_id | FK → User |
| freelancer\_id | FK → User |
| start\_date | DATE |
| end\_date | DATE |
| status | ENUM |
| final\_price | DECIMAL |
|  |  |

**12. Payment**

Made after contract is done

Relation 8

| **Column** | **Type** |
| --- | --- |
| id | PK |
| contract\_id | FK → Contract |
| amount | DECIMAL |
| paid\_at | DATETIME |
| method | VARCHAR |
| status | ENUM |

**13. Review**

Mutual reviews for completed contracts.

Relation 10

| **Column** | **Type** |
| --- | --- |
| id | PK |
| contract\_id | FK → Contract |
| reviewer\_id | FK → User |
| reviewee\_id | FK → User |
| rating | INT (1-5) |
| feedback | TEXT |
| created\_at | DATETIME |
|  |  |

**14. Message**

Chat between freelancer & client per contract.

Relation 9

| **Column** | **Type** |
| --- | --- |
| id | PK |
| contract\_id | FK → Contract |
| sender\_id | FK → User |
| body | TEXT |
| time\_sent | DATETIME |
| is\_seen | BOOLEAN |

**15. Notification**

**Relation 11**

| **Column** | **Type** |
| --- | --- |
| id | PK |
| user\_id | FK → User |
| message | TEXT |
| type | ENUM |
| is\_read | BOOLEAN |
| created\_at | DATETIME |

Relations

1)User 1–1 Profile

2)User M–N Skill → via UserSkill

3)User 1–M Project

4)User (client) 1–M Job

5)Job M–N Tag via JobTagMap

6)Job 1–M Proposal (from freelancers)

7)Proposal 1–1 Contract

8)Contract 1–M Payment

9)Contract 1–M Message

10)Contract 1–M Review (freelancer & client both review each other)

11)User 1–M Notification