**1. Database Design:**

**1.1 User**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| user\_id | Integer | No | Primarykey, AutoIncrement |  | User ID |
| fname | Varchar(45) | Yes |  | Null | First Name |
| lname | Varchar(45) | No |  | Null | Last Name |
| email | Varchar(45) | No |  | Null | Email ID of User |
| password | Varchar(15) | No |  | Null | Account Password |
| contact\_no | Integer | No |  | Null | Contact No. of User |
| Gender | Varchar(10) | No |  | Null | Gender Information |
| user\_type | Varchar(10) | No |  | Null | Worker/Client/Admin |
| Address | Varchar(225) | No |  | Null | Address of User |

**1.2 Worker**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| worker\_id | Integer | No | Primary key | AutoIncrement | Worker Id |
| user\_id | Integer | No | Foreign key | Null | User ID is Primary key from User table |
| worker type | Varchar(45) | No |  | Null | Worker type |
| charges | Integer | No |  | Null | Working charges per day |

**1.4 Client**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| client\_id | Integer | No | Primary key | AutoIncrement | Client id |
| user\_id | Integer | No | Foreign key | Foreign key | User ID is Primary key from User table |
| client\_type | Varchar(45) | No |  | Null | Client type(Contractor, other) |

**1.5 Requirements**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| requirement id | Integer | No | Primary key | AutoIncrement | Requirement Id |
| user\_id | Integer | No | Foreign Key | Null | Client id is Primary key from User table |
| no\_of\_workers | Integer | No |  | Null | Number of Labours |
| work\_days | Integer | No |  | Null | Expected days of employment |
| req\_date | Datetime | No |  | Null | Request Date |
| location | Varchar(45) | No |  | Null | Work Location |

**1.6 Requirement Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| req details id | Integer | No | Primary key | AutoIncrement | Requirement Details Id |
| Requirement id | Integer | No | Foreign Key | Null | Requirement id is Primary key from Requirement table |
| Worker id | Integer | No | Foreign Key | Null | Worker id is Primary key from Worker table |
| work\_days | Integer | No |  | Null | Expected days of employment |
| date | Datetime | No |  | Null | Request Accept/Decline Date |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| req details id | Integer | No | Primary key | AutoIncrement | Requirement Details Id |
| Requirement id | Integer | No | Foreign Key | Null | Requirement id is Primary key from Requirement table |
| Worker id | Integer | No | Foreign Key | Null | Worker id is Primary key from Worker table |
| date | Datetime | No |  | Null | Request Accept/Decline Date |
| status | Varchar(45) | No |  | Null | Accept/Decline Acknowledgement |

**1.7 Payment Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null?** | **Key** | **Default** | **Description** |
| payment id | Integer | No | Primary key | AutoIncrement | Payment Id |
| req details id | Integer | No | Foreign Key | Null | Req Deatils Id is Primary key from Requirement Details table |
| payment mode | Varchar(15) | No |  | Null | Type of payemnt |
| trans id | Integer | No |  | Null | Transaction id |
| payment date | Datetime | No |  | Null | Date of payment |
| payment amount | Integer | No |  | Null | Payment amount |
| Worker id | Integer | No | Foreign Key | Null | Worker Id is Primary key from Worker table |