# Documentation

## **Entities**

### **1. User**

****Attributes:****

* + id (Primary Key)
  + username

****Relationships:****

* + Belongs to one Company (Many-to-One)
  + Has multiple entries in ClientUsers (One-to-Many)

### **Company**

### ****Attributes:****

* + id (Primary Key)
  + name
  + ... (other attributes)

****Relationships:****

* + Has multiple Users (One-to-Many)
  + Has multiple Clients (One-to-Many)

### **3. Client**

****Attributes:****

* + id (Primary Key)
  + name
  + email
  + phone
  + ... (other attributes)

****Relationships:****

* + Belongs to one User (Many-to-One)
  + Belongs to one Company (Many-to-One)
  + Has multiple entries in ClientUsers (One-to-Many)

### **4. ClientUsers (Relational)**

****Attributes:****

* + id (Primary Key)
  + client\_id (Foreign Key referencing Client)
  + user\_id (Foreign Key referencing User)
  + created\_at
  + updated\_at
  + deleted\_at
  + active

****Relationships:****

* + Belongs to one Client (Many-to-One)
  + Belongs to one User (Many-to-One)

## **Relationships**

## ****User to Company:**** Many-to-One

* + A user belongs to one company.
  + A company can have many users.

****User to ClientUsers:**** One-to-Many

* + A user can be associated with multiple clients through ClientUsers.
  + Each entry in ClientUsers corresponds to one user.

****Company to User:**** One-to-Many

* + A company can have multiple users.
  + Each user belongs to one company.

****Company to Client:**** One-to-Many

* + A company can have multiple clients.
  + Each client belongs to one company.

****Client to User:**** Many-to-One

* + A client is associated with one user.
  + A user can be associated with multiple clients.

****Client to Company:**** Many-to-One

* + A client is associated with one company.
  + A company can have multiple clients.

****Client to ClientUsers:**** One-to-Many

* + A client can have multiple entries in ClientUsers.
  + Each entry in ClientUsers corresponds to one client.

## ER DIAGRAM -

## Screenshot (63)

## API end point guide-

**All Users**

[http://localhost:3030/sms\_magic\_assignment/users](http://your-api-url/users?username=johndoe)

### User filter -

[http://localhost:3030/sms\_magic\_assignment/users](http://your-api-url/users?username=johndoe)?username={value in request}

### **Update UserField at once -**

Method is put with request body as new object of user with updated value and id as path variable [http://localhost:3030/sms\_magic\_assignment/users](http://your-api-url/users?username=johndoe)/{id}

### **Get Company -**

Method is get with parameters as min\_employees=? and max\_employees=?

http://localhost:3030/sms\_magic\_assignment/companies/employees?min\_employees=500&max\_employees=2000