

I have 3 tables:

Users Table:

Id (Primary Key), username, email, password, role

Query→

```
CREATE TABLE users (  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    username VARCHAR(255),  
    email VARCHAR(255),  
    password VARCHAR(255),  
    role ENUM('Admin', 'Technician', 'Client')  
);
```

Projects Table:

Id (Primary Key) , name, description, start_date, due_date ,note_to_client, status ('Open', 'In Progress', 'Completed','Closed','Rejected') ,assign_technicians(Foreign key), client int(Foreign key)

Query ->

```
CREATE TABLE projects (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(255),  
    description VARCHAR(255),  
    start_date date,  
    due_date date,  
    note_to_client VARCHAR(255),  
    status ENUM('Open', 'In Progress', 'Completed','Closed','Rejected'),  
    assign_technicians INT,  
    FOREIGN KEY (assign_technicians) REFERENCES users(id),  
    client INT,  
    FOREIGN KEY (client) REFERENCES clients(id)
```

);

Clients table:

Id(Primary key), name, email

Query->

```
CREATE TABLE clients (  
  id INT PRIMARY KEY AUTO_INCREMENT,  
  name VARCHAR(255),  
  email VARCHAR(255),  
  password VARCHAR(255),  
);
```

Auth APIs

- **signup API**

HTTP method: POST

inputs from body: username, email, password, role

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/auth/signUp>

Validation:

Username: required , min characters(2) ,max characters(20)

Email: .com or .net

Password: required start with any uppercase letter from A to Z, then matches between 3 to 8 characters which can be either lowercase (a-z) or letters (0-9)

- **logIn API**

HTTP method: POST

inputs from body: email, password

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/auth/login>

Project APIs

Admin Actions:

- **AddProject**

HTTP method: POST

inputs from body: name, description, start_date,
due_date, note_to_client, status, assign_technicians

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/AddProject>

- **UpdateProject**

HTTP method: PUT

Inputs from params: id (project_id)

Inputs from body (any value from them will updated): name, description, start_date,
due_date, note_to_client, status, assign_technicians

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/UpdateProject/:id>

- **DeleteProject**

HTTP method: DELETE

Inputs from params: id (project_id)

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/DeleteProject/:id>

- **getAllProjects**

HTTP method: GET

inputs from headers: Bearer__<token>**ChangeStatus**

HTTP method: GET

Input from params: id (project_id)

Input from body: status

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/getAllProjects>

- **ViewAssignedProjects (For Technicians)**

HTTP method: GET

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/ViewAssignedProjects>

- **Search(common Actions between admin and technicians)**

HTTP method: GET

Input from body: name, due_date, created_at, status

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/search>

- **CheckStartDate**

HTTP method: GET

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/checkStartDate>

- **clientEmail**

HTTP method: GET

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/project/clientEmail/:projectId>

Admin Actions to users(client or technician):

- **getAllUsers**

HTTP method: GET

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/user/getAllUsers>

- **AddUser**

HTTP method: POST

Inputs from body: username, email, password, role

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/user/AddUser>

- **UpdateUser**

HTTP method: PUT

Inputs from params: id

Inputs from body: password

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/user/UpdateUser/:id>

- **DeleteUser**

HTTP method: DELETE

Inputs from params: id (user_id)

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/user/DeleteUser/:id>

- **getUserById**

HTTP method: GET

Inputs from params: id (user_id)

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/user/getUserById/:id>

- **searchByName**

HTTP method: DELETE

Inputs from query: searchkey (search by username)

inputs from headers: Bearer__<token>

Endpoint: <https://project-management-system-chi.vercel.app/api/v1/user/searchByName>