## **API Documentation**

### **List app Users**

* URL: /users
* Method: GET
* Description: Retrieve a list of all users in the app. Can be filtered by username.
* Query Parameters:
  + username (If provided): Filter users by username.
* Response:
  + Status Code: 200 OK
  + Body: List of users matching the filter.

### **Replace User fields at once**

* URL: /users/<int:user\_id>
* Method: PUT
* Description: Replace all fields of a user with new values.
* Parameters:
  + user\_id: The ID of the user to update.
* Request Body:
  + JSON object containing new user field values.
* Response:
  + Status Code: 200 OK
  + Body: Message confirming user update and the updated user details.

### **Create Client**

* URL: /clients
* Method: POST
* Description: Create a new client. Requires ROLE\_ADMIN role.
* Request Body:
  + JSON object containing client details (name, user\_id, company\_id, email, phone).
* Response:
  + Status Code: 201 Created
  + Body: Message confirming client creation and the new client details.

### **Update Client fields**

* URL: /clients/<int:client\_id>
* Method: PUT
* Description: Update any single field, many, or all client fields.
* Parameters:
  + client\_id: The ID of the client to update.
* Request Body:
  + JSON object containing client field(s) to update.
* Response:
  + Status Code: 200 OK
  + Body: Message confirming client update and the updated client details.

### **Search Companies by employees range**

* URL: /search/companies
* Method: GET
* Description: Search for companies within a specified range of employees.
* Query Parameters:
  + min\_employees: Minimum number of employees.
  + max\_employees: Maximum number of employees.
* Response:
  + Status Code: 200 OK
  + Body: List of companies matching the employees range.

### **Search Clients**

* URL: /search/clients
* Method: GET
* Description: Search for clients by user ID or company name.
* Query Parameters:
  + user\_id: ID of the user to search clients for.
  + company\_name: Name of the company to search clients for.
* Response:
  + Status Code: 200 OK
  + Body: List of clients matching the search criteria.

### **Get companies with max revenue in each industry**

* URL: /max\_revenue/companies
* Method: GET
* Description: Retrieve a list of companies with the highest revenue in each industry.
* Response:
  + Status Code: 200 OK
  + Body: List of companies with max revenue in each industry.