API Documentation

1. Get Leaderboard

```
Endpoint: http://localhost:8000/api/leaderboard
HTTP Method: GET
Description: Fetches a list of users ranked by their points, with the highest points
              displayed first.
Response:
       [
              {
                     "id": 11.
                     "name": "Akshay Ghatiki",
                     "age": 25,
                     "points": 8,
                     "address": "145, 19th B Cross, 17th Main, Sector 3, HSR
       Layout, Bangalore-560102",
                     "created at": "2024-10-12T11:09:27.000000Z",
                     "updated_at": "2024-10-13T19:21:30.000000Z"
              },
              {
                     "id": 5,
                     "name": "Magdalena McGlynn",
                     "age": 60,
                     "points": 5,
                     "address": "23437 Elwin Pines Suite 295\nWest Vinnie, MO
       43956-8602".
                     "created_at": "2024-10-09T13:08:57.000000Z",
                     "updated_at": "2024-10-13T19:21:06.000000Z"
              }
Response Codes:
       200: Leaderboard retrieved successfully
Endpoint: http://localhost:8000/api/users
```

2. Add a New User

Bangalore-560102"

}

```
HTTP Method: POST
Description: Creates a new user with initial details such as name, age, and address.
              The user's points will default to 0 upon creation.
              QR code is generated which stores user addresses.
Request Body:
         {
              "name": "Akshay Ghatiki",
              "age": 25,
```

"address": "145, 19th B Cross, 17th Main, Sector 3, HSR Layout,

Response Codes:

201: User created successfully and new user data is returned.

3. Get User Details

Response Codes:

200: User was retrieved successfully.

4. Increment User Points

```
Endpoint: http://localhost:8000/api/users/{id}/increment
HTTP Method: POST

Description: Increases the points of the user identified by the provided id by 1.

Response:

{
    "id": 11,
    "name": "Akshay Ghatiki",
    "age": 25,
    "points": 8,
    "address": "145, 19th B Cross, 17th Main, Sector 3, HSR Layout,
    Bangalore-560102",
```

```
"created_at": "2024-10-12T11:09:27.000000Z",
    "updated at": "2024-10-13T19:21:29.000000Z"
}
```

Response Codes:

200: The user's points were successfully incremented.

5. Decrement User Points

Endpoint: http://localhost:8000/api/users/{id}/decrement

HTTP Method: POST

Description: Decreases the points of the user identified by the provided id by 1 if points are greater than 0.

Response:

```
{
       "id": 11,
       "name": "Akshay Ghatiki",
       "age": 25,
       "points": 7,
       "address": "145, 19th B Cross, 17th Main, Sector 3, HSR Layout,
Bangalore-560102",
       "created at": "2024-10-12T11:09:27.000000Z",
       "updated at": "2024-10-13T19:21:30.000000Z"
```

Response Codes:

200: The user's points were successfully decremented.

6. Delete a User

Endpoint: http://localhost:8000/api/users/{id}

HTTP Method: DELETE

<u>Description:</u> Deletes the user identified by the provided id. Users are also removed from the winners table.

Response:

```
"message": "User deleted"
```

Response Codes:

200: The user was successfully deleted.

7. Group Users by Score

Endpoint: http://localhost:8000/api/groupusers

HTTP Method: GET

<u>Description</u>: Returns the users info grouped by score and includes the

average age of the users

Response:

```
"1": {
       "names": [
       "Maida Bode",
```

```
"Ned Grady"
        ],
        "average_age": 44
},
"2": {
        "names": [
        "Reinhold Jast",
        "Eusebio Carroll",
        "Dr. Amos Heathcote"
        ],
        "average_age": 37.67
},
"3": {
        "names": [
        "Miss Paige Schuster Jr."
        ],
        "average_age": 53
},
"4": {
        "names": [
        "Magdalena McGlynn"
        "average_age": 60
},
"5": {
        "names": [
        "Dr. Richie Howell DDS"
        "average_age": 33
},
"7": {
        "names": [
        "Akshay Ghatiki"
        ],
        "average_age": 25
}
}
```

Response Code:

200: Returns grouped users successfully.