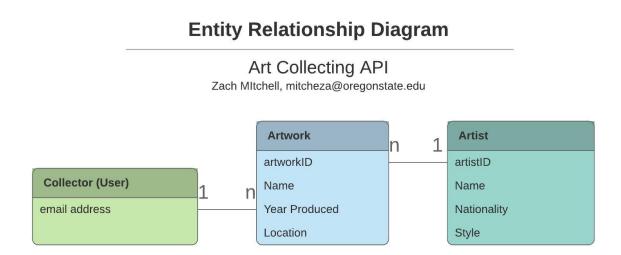
Project Description

Base URL: https://mitcheza-api-2.appspot.com

Video of Testing: https://www.youtube.com/watch?v=Gi9NsUkpjS8

My database contains 3 entities: **art collectors (users)**, **works of art**, and **artists**. User information is not saved in my database, but is instead outsourced to a 3rd party application, Auth0. Artworks and artists are saved in the database. An entity-relationship diagram of the database, with all corresponding entity properties looks like so:



Example JSON Representation of Entities

```
Artist:
{
       "name": "Paul Gauguin",
       "nationality": "French",
       "style": "Post-Impressionism",
       "works": [
           "id": "5635321228165120",
           "self": "https://mitcheza-api-2.appspot.com/works/5635321228165120",
           "name": "Woman with a Flower"
         },
            "self": "https://mitcheza-api-2.appspot.com/works/5762273213677568",
           "name": "Where Do We Come From? What Are We? Where Are We Going?",
           "id": "5762273213677568"
         }
       ],
       "id": "5764984579555328",
       "self": "https://mitcheza-api-2.appspot.com/artists/5764984579555328"
 }
```

API Documentation

Base URL: https://mitcheza-api-2.appspot.com

1. Collectors / Owners (Users)

To make *any* call to the database using the API, a user must first be registered and then login and use their Bearer token for all subsequent interactions.

A. Create a New User: Adds a new user to our Auth0 application for future authenication/authorization requests.

```
Call: POST/newuser
```

Parameters:

"username": - String, email address

Response:

Status: 201 Created

[&]quot;password": - String, password to login to authenticate for API usage

[&]quot;<username> account created!"

B. User Login: Authenticates user and gives them a Bearer token which they can then use to authorize future calls to the API.

2. Works of Art

Works of art can be **created** and **viewed** (viewed in a collection or individually) by **any user** with a bearer token. However, only the **owner** of a work can **edit**, **delete**, **assign/remove artists** to a given work of art.

All calls must explicitly accept application/json and have a bearer token.

A. Add a work of art: Adds a new piece of art to the database.

```
Call: POST/works
```

Parameters:

```
"name": - String, name of the artwork
"year": - Number, year the work was finished
"location" - String, location of the work (city, country, etc)
```

Response:

```
Status: 201 Created
{"id": "5680680545550336"}
```

B. View collection of art works: View the entire collection of artworks and the total count of artworks in the collection.

Call: GET/works

Parameters:

```
Response:
```

```
Status: 200 Ok
   "works": [
       "owner": "museo@seattle.com",
       "name": "La Vie",
       "year": 1903,
       "location": "Cleveland",
       "artist": {
         "self": "https://mitcheza-api-2.appspot.com/artists/5129017531301888",
         "name": "Pablo Picasso",
         "id": "5129017531301888"
       },
       "id": "5633369601736704",
       "self": "https://mitcheza-api-2.appspot.com/works/5633369601736704"
    },
       "owner": "museo@seattle.com",
       "name": "Where Do We Come From? What Are We? Where Are We Going?",
       "year": 1897,
       "location": "Boston",
       "artist": {
         "self": "https://mitcheza-api-2.appspot.com/artists/5764984579555328",
         "name": "Paul Gauguin".
         "id": "5764984579555328"
       "id": "5762273213677568",
       "self": "https://mitcheza-api-2.appspot.com/works/5762273213677568"
  ],
  "total": 4
```

C. View a single artwork: View a single artwork.

Call: GET/works/:workID

Parameters:

```
Response:
Status: 200 Ok

{
    "location": "Cleveland",
    "artist": {
        "id": "5129017531301888",
        "self": "https://mitcheza-api-2.appspot.com/artists/5129017531301888",
        "name": "Pablo Picasso"
    },
    "owner": "museo@seattle.com",
    "name": "La Vie",
    "year": 1903,
    "id": "5633369601736704",
    "self": "https://mitcheza-api-2.appspot.com/works/5633369601736704"
}
```

D. Edit a single artwork (Owner only): Adjust the name, location, year of production for a work of art.

Call: PUT/works/:workID

Parameters:

```
"name": - String, name of the artwork
"year": - Number, year the work was finished
"location" - String, location of the work (city, country, etc)
```

Response:

Status: 200 Ok

E. Delete a single artwork (Owner only): Remove work of art from database.

Call: DELETE /works/:workID

Parameters:

Response:

Status: 204 No Content

3. Artists

All CRUD calls on artists can be performed by anyone with a bearer token, irrespective of who created the artist.

A. Add an artist: Adds a new artist to the database.

```
Call: POST /artists
```

```
Parameters:
```

```
"name": - String, name of the artist
"nationality": - String, country they were born
```

Response:

```
Status: 201 Created
{"id": "5691967484723200" }
```

B. View collection of artists: View the entire collection of artists and the total count of artists in the collection.

Call: GET /artists

Parameters:

Response:

```
Status: 200 Ok

{
    "artists": [
        {
             "style": "Pop-Art",
             "works": [],
             "name": "Andy Warhol",
             "nationality": "American",
             "id": "5127195055882240",
             "self": "https://mitcheza-api-2.appspot.com/artists/5127195055882240"
        },
        ...,
        ],
        "total": 8,
        "next": "https://mitcheza-api-2.appspot.com/artists?cursor=Ci0SJ2o...BgAIAA="
}
```

[&]quot;style" - String, major art movement they are thought to inhabit

C. View a single artist: View an artist and a collection of their attributed works.

Call: GET /artists/:artistID

Parameters:

```
Response:
Status: 200 Ok
{
       "nationality": "French",
       "style": "Post-Impressionism",
       "works": [
           "self": "https://mitcheza-api-2.appspot.com/works/5635321228165120",
           "name": "Woman with a Flower",
           "id": "5635321228165120"
         },
           "self": "https://mitcheza-api-2.appspot.com/works/5762273213677568",
           "name": "Where Do We Come From? What Are We? Where Are We Going?",
           "id": "5762273213677568"
         }
       ],
       "name": "Paul Gauguin",
       "id": "5764984579555328".
       "self": "https://mitcheza-api-2.appspot.com/artists/5764984579555328"
}
```

D. Edit a single artist: Adjust an artist's attributes.

Call: *PUT /artists/:artistID*

Parameters:

"name": - String, name of the artist

"nationality": - String, country they were born

"style" - String, major art movement they are thought to inhabit

Response:

Status: 200 Ok

E. Delete a single artist: Remove artist from database and clear any corresponding works of art of this artist's name.

Call: DELETE /artists/:artistID

Parameters:

Response:

Status: 204 No Content

4. Relationships between artwork and artists

To assign or remove an artist to a work of art, the user must also be the owner of the work of art on top of having a bearer token.

A. Add work to an artist (Owner of work only): Adds artist to the "artist" property of a work of art and then adds the work of art to the artist's "works" array.

Call: PUT /artists/:artist_id/works/:work_id

Parameters:

Response: Status: 200 Ok

B. Remove work from an artist (Owner of work only): Removes artist from the "artist" property of a work of art and then removes the work of art from the artist's "works" array.

Call: DELETE /artists/:artist_id/works/:work_id

Parameters:

Response: Status: 200 Ok