Portfolio Assignment: Final Project

CS 493: Cloud Application Development

URL for Application Deployment: https://creekk-final.uw.r.appspot.com/

URL for Account Creation / Login: https://creekk-final.uw.r.appspot.com/

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# Change log

|  |  |  |
| --- | --- | --- |
| **Version** | **Change** | **Date** |
| 1.0 | Initial version. | Nov 29, 2022 |

# Data Model

* For all entities and their properties, see below sections “Owners”, “Teams”, and “Players”
* For description of relationship between all entities, see below section “Relationships”
* User Entity model information:
  + “Owners” represent the User Entity.
  + The unique identifier of the “Owner” is the “username” property.
  + Requests must be accompanied with a valid JSON Web Token to accurately identify a user.
  + The application maps a supplied JWT to a user by associating the JWT with the username, then cross referencing the username with the “Owners” table to determine a unique ID.
  + For relationship between the user entity and non-user entity, reference the below “Relationships” section.

## Owners

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Property** | **Type** | **Required?** | **Valid Values** | **Description** |
| Id | Integer | Generated | Automatically Generated By Google | The id of the owner. Datastore automatically generates it. Don't add it yourself as a property of the entity. |
| username | String | Yes | All String Values.  Generally Email Address.  Validation Controlled by Auth0 | Team owners username. |

## Teams

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Property** | **Type** | **Required?** | **Valid Values** | **Description** |
| Id | Integer | Generated | Automatically Generated by Google | The id of the Team. Datastore automatically generates it. Don't add it yourself as a property of the entity. |
| nickname | String | Yes | All String Values | Team nickname. |
| city | String | Yes | All String Values | Team home city. |
| state | String | Yes | All String Values | Team home state. |
| players | List | Generated | Empty List Generated on instantiation.  List is populated with player\_id values. | List containing each player assigned to the team. |
| owner\_id | Integer | Generated | Inhereted from JWT.  Points to owner\_id of team owner. | Identifies team owner. |
| Self | String | Generated | Generated upon instantiation. | Points to the canonical representation of the entity. |

## Players

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Property** | **Type** | **Required?** | **Valid Values** | **Description** |
| Id | Integer | Generated | Automatically Generated by Google | The id of the player. Datastore automatically generates it. Don't add it yourself as a property of the entity. |
| name | String | Yes | All String Values | Player name. |
| height | Integer | Yes | All Integer Values | Player height, in inches. |
| weight | Integer | Yes | All Integer Values | Player weight, in pounds. |
| current\_team | String | Generated | None type on instantiation.  Value will be inherited when team is assigned. | Team to which player is currently assigned. |
| self | String | Generated | Generated upon instantiation. | Points to the canonical representation of the entity. |

# Relationships

**Diagram

Description automatically generated**

# Create a Player (Unprotected)

Creates a Player Entity

|  |
| --- |
| POST /players |

## Request

### Path Parameters

None

### Request MIME Type

Application/JSON

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Required?** |
| name | Player name. | Yes |
| height | Player height, in inches. | Yes |
| weight | Player weight, in pounds. | Yes |

**Note:** Additional attributes “current\_team” and “self” will be automatically generated on conception.

**Note 2:** The “current\_team” attribute will be set to “None” on player instantiation.

**Note 3:** API will not verify for unique “name”.

### Request Body Example

|  |
| --- |
| {  "name": "Kyle Creek",  "height": 60,  "weight": 205  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request | Returned when request body is missing “name”, “height”, or “weight” attribute. |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created  {  "id": 123,  "name": "Kyle Creek",  "height": 60,  "weight": 205,  “current\_team”: null,  “self”: [URL Base]/players/[id]  } |

#### Failure

|  |
| --- |
| Status: 400 Bad Request  {  "Error": “Missing Attributes”  } |

# View all Players (Unprotected)

View all players

|  |
| --- |
| GET /players |

## Request

### Path Parameters

None

### Request MIME Type

Application/JSON

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {      "players": [          {              "height": 60,              "weight": 205,              "current\_team": **null**,              "self": "http://localhost:3000/players/5142858919051264",              "name": "Kyle Creek 2"          },          {              "height": 60,              "name": "Kyle Creek",              "current\_team": **null**,              "self": "http://localhost:3000/players/5709113312935936",              "weight": 205          }      ]  } |

# View a Specific Player (Unprotected)

View information of a specific player id.

|  |
| --- |
| GET /players/<player\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| player\_id | Player ID associated with the requested Player |

### Request MIME Type

Application/JSON

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 Not Found | Returned when the provided player id is not associated with any instantiated player. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": 123,  "name": "Kyle Creek",  "height": 60,  "weight": 205,  “current\_team”: null,  “self”: [URL Base]/players/[id]  } |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": “Player not Found”  } |

# Edit a Player (Partial Edit) (Unprotected)

Partially edit aspects of a player instance.

|  |
| --- |
| PATCH /players/<player\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| player\_id | Player ID associated with the requested Player |

### Request MIME Type

Application/JSON

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Required?** |
| name | Player name. | No |
| height | Player height, in inches. | No |
| weight | Player weight, in lbs. | No |

**Note:** Player attribute “current\_team”, is revised using the “/teams/<team\_id>/players/<player\_id>” end point.

**Note 2:** Additional attributes can be sent in the JSON request body, but they will be ignored.

**Note 3:** Uniqueness will not be verified.

### Request Body Example

|  |
| --- |
| {  "name": "Tony Tiger 100",  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 Not Found | Returned when the provided player id is not associated with any instantiated player. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": 123,  "name": "Tony Tiger 100",  "height": 60,  "weight": 205,  “current\_team”: null,  “self”: [URL Base]/players/[id]  } |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": “Player not Found”  } |

# Edit a Player (COMPLETE Edit) (Unprotected)

Edit EVERY Aspect of a player instance.

|  |
| --- |
| PUT /players/<player\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| player\_id | Player ID associated with the requested Player |

### Request MIME Type

Application/JSON

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Required?** |
| name | Player Name | Yes |
| height | Player Height | Yes |
| weight | Player Weight | Yes |

**Note:** Player attribute “current\_team”, is revised using the “/teams/<team\_id>/players/<player\_id>” end point.

**Note 2:** Uniqueness will not be verified.

### Request Body Example

|  |
| --- |
| {  "name": "Smoking Joe”,  "height": 66,  "weight": 210,  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 400 Bad Request | Returned when attributes are missing from request body |
| Failure | 404 Not Found | Returned when the provided player id is not associated with any instantiated player. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": 123,  "name": "Smoking Joe",  "height": 66,  "weight": 210,  “current\_team”: null,  “self”: [URL Base]/players/[id]  } |

#### Failure

|  |
| --- |
| Status: 400 Bad Request  {  "Error": “Missing Attribute in request body”  } |
| Status: 404 Not Found  {  "Error": “Player not Found”  } |

# Delete a Player (Partially Protected)

Deletes a Player instance from the datastore.

|  |
| --- |
| DELETE /players/<player\_id> |

**Note:** JSON Web Token **MUST** be present when deleting a player where “current\_team” is not set to None. JSON Web Token **MUST** match the JSON Web Token as the Team Owner. Removal can also be performed at the “/teams/<team\_id>/players/<player\_id>” end point.

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| player\_id | Player ID associated with the requested Player |

### Request MIME Type

Application/JSON

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content |  |
| Failure | 404 Not Found | Returned when the provided player id is not associated with any instantiated player. |
| Failure | 401 Unauthorized | Returned when incorrect or missing JWT are provided. Only applicable when “DELETE” function is performed where player “current\_team” attribute is NOT set to None. |

### Response Examples

#### Success

|  |
| --- |
| Status: 204 No Content |

#### Failure

|  |
| --- |
| Status: 404 Not Found  {  "Error": “Player not Found”  } |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |

# Create a Team (Partially Protected)

Creates a Team Entity

|  |
| --- |
| POST /teams |

**Note:** JSON Web Token **MUST** be present when creating a team. Any JSON Web Token, however, can establish a Team.

## Request

### Path Parameters

None

### Request MIME Type

Application/JSON

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Required?** |
| nickname | Team nickname. | Yes |
| city | Team home city. | Yes |
| state | Team home state | Yes |

**Note:** Additional attributes “id”, “players”, “owner\_id”, and “self” will be automatically generated on conception.

**Note 2:** “Players” attribute will be an empty list when teams are instantiated.

**Note 3:** Team cannot be created unless a valid JSON Web Token is provided to the API.

**Note 4:** API will not verify for unique “city” nor “state”. The attribute “nickname” will be verified for uniqueness.

### Request Body Example

|  |
| --- |
| {  "nickname": "Seahawks",  "city": “Seattle”,  "state": “Washington”  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 201 Created |  |
| Failure | 400 Bad Request | Returned when request body is missing “nickname”, “city”, or “state” attribute. |
| Failure | 401 Unauthorized | Returned when request is sent without a valid JSON Web Token. |
| Failure | 403 Forbidden | Returned when provided “nickname” is not unique. |

### Response Examples

#### Success

|  |
| --- |
| Status: 201 Created  {  "id": 123,  "nickname": "Seahawks",  "city": “Seattle”,  "state": “Washington”  “players”: []  “owner\_id”: 4567  “self”: [URL Base]/teams/[id]  } |

#### Failure

|  |
| --- |
| Status: 400 Bad Request  {  "Error": “Missing Attributes”  } |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status: 403 Forbidden  {  "Error": “Name is Not Unique”  } |

# View a Team (Protected)

Views a Team

|  |
| --- |
| GET /teams |

## Request

### Path Parameters

None

### Request MIME Type

Application/JSON

### Request Body

None

## Response

**Note:** API will only return teams that are owned by the “owner\_id” associated with the provided JSON Web Token.

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 401 Unauthorized | Returned when request is sent without a JSON Web Token |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {      "teams": [          {              "id": 5640825748848640,              "nickname": "Raiders",              "city": "Las Vegas",              "state": "Nevada",              "owner\_id": 6206954716266496,              "self": "http://localhost:3000/teams/5640825748848640"          },          {              "id": 5675594515742720,              "nickname": "Seahawks",              "city": "Seattle",              "state": "Washington",              "owner\_id": 6206954716266496,              "self": "http://localhost:3000/teams/5675594515742720"          }      ]  } |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |

# View a Specific Team (Protected)

Views a Team Specific Team

|  |
| --- |
| GET /teams/<team\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| team\_id | Team ID associated with the requested Team |

### Request MIME Type

Application/JSON

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 401 Unauthorized | Returned when request is sent without a JSON Web Token |
| Failure | 404 Not Found | Returned when provided an invalid team\_id |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status 404: Not Found  {  "Error": “Team not Found”  } |

# Edit a Team (Partial Edit) (Protected)

Partially edit aspects of a team instance.

|  |
| --- |
| PATCH /teams/<team\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| team\_id | Team ID associated with the requested Team |

### Request MIME Type

Application/JSON

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Required?** |
| nickname | Team nickname | No |
| city | Team home city | No |
| state | Team home state | No |

**Note:** The list containing the “players” is revised using the “/teams/<team\_id>/players/<player\_id>” end point.

**Note 2:** Additional attributes can be sent in the JSON request body, but they will be ignored.

**Note 3:** Uniqueness will only be verified for “nickname” attribute.

**Note 4:** Team can only be revised when provided with valid JSON Web Token

### Request Body Example

|  |
| --- |
| {  "nickname": "NOT the Rams",  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 Not Found | Returned when provided an invalid team\_id |
| Failure | 401 Unauthorized | Returned when owner\_id associated with the provided JWT does not match the owner\_id associated with the team instance. |
| Failure | 403 Forbidden | Returned attempting to revise team “nickname” to “nickname” that already exists. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": 123,  "nickname": "NOT the Rams",  "city": “Seattle”,  "state": “Washington”  “players”: []  “owner\_id”: 4567  “self”: [URL Base]/teams/[id]  } |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status: 404 Not Found  {  "Error": “Team not Found”  } |
| Status 403 Forbidden  {  "Error": “Name Not Unique”  } |

# Edit a Team (COMPLETE Edit) (Protected)

Edit every aspect of a team instance.

|  |
| --- |
| PUT /teams/<team\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| team\_id | Team ID associated with the requested Team |

### Request MIME Type

Application/JSON

### Request Body

Required

### Request Body Format

JSON

### Request JSON Attributes

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Required?** |
| nickname | Team nickname | Yes |
| city | Team home city | Yes |
| state | Team home state | Yes |

**Note:** The list containing the “players” is revised using the “/teams/<team\_id>/players/<player\_id>” end point.

**Note 2:** Team can only be revised when provided with valid JSON Web Token

**Note 3:** Uniqueness will only be verified for “nickname” attribute.

### Request Body Example

|  |
| --- |
| {  "nickname": "NOT the Rams",  “city”: “Charleston”,  “state”: “Confusion”  } |

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 404 Not Found | Returned when provided an invalid team\_id |
| Failure | 401 Unauthorized | Returned when owner\_id associated with the provided JWT does not match the owner\_id associated with the team instance. |
| Failure | 400 Bad Request | Returned when request body is missing “nickname”, “city”, or “state” attribute. |
| Failure | 403 Forbidden | Returned attempting to revise team “nickname” to “nickname” that already exists. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {  "id": 123,  "nickname": "NOT the Rams",  "city": “Charleston”,  "state": “Confusion”  “players”: []  “owner\_id”: 4567  “self”: [URL Base]/teams/[id]  } |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status: 404 Not Found  {  "Error": “Team not Found”  } |
| Status: 400 Bad Request  {  "Error": “Missing Attributes”  } |
| Status: 403 Forbidden  {  "Error": “Name Not Unique”  } |

# Delete a Team (Protected)

Removes a team from the datastore

**Note:** When a team is deleted where players are on a “roster”, each player will have their “current\_team” attribute revised to “None”

|  |
| --- |
| DELETE /teams/<team\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| team\_id | Team ID associated with the requested Team |

### Request MIME Type

Application/JSON

### Request Body

None

## Response

### Response Body Format

None

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 204 No Content |  |
| Failure | 401 Unauthorized | Returned when owner\_id associated with the provided JWT does not match the owner\_id associated with the team instance. |
| Failure | 404 Not Found | Returned when provided an invalid team\_id |

### Response Examples

#### Success

|  |
| --- |
| Status: 204 No Content |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status: 404 Not Found  {  "Error": “Team not Found”  } |

# Add a Player to a Team Roster (Protected)

Adds a Player to a team Roster

|  |
| --- |
| PATCH /teams/<team\_id>/players/<player\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| team\_id | Team ID associated with the requested Team |
| player\_id | Player ID associated with the requested Player |

### Request MIME Type

Application/JSON

### Request Body

None

## Response

**Note:** Adding a player to a roster will update the players “current\_team” attribute.

**Note 2:** JWT must correspond to the owner\_id associated with the team to perform add.

**Note 3:** Players can only be added to a team while their “current\_team” attribute is set to “None”.

### Response Body Format

None

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 401 Unauthorized | Returned when owner\_id associated with the provided JWT does not match the owner\_id associated with the team instance. |
| Failure | 404 Not Found | Returned when provided an invalid team\_id or invalid player\_id |
| Failure | 406 Not Acceptable | Returned when the Player is already assigned to a team. |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status: 404 Not Found  {  "Error": “Player/Team not Found”  } |
| Status: 406 Not Acceptable  {  "Error": “Player is already on a team”  } |

# Remove a Player From a Roster (Protected)

Removes a Player to a team Roster

|  |
| --- |
| DELETE /teams/<team\_id>/players/<player\_id> |

## Request

### Path Parameters

|  |  |
| --- | --- |
| **Name** | **Description** |
| team\_id | Team ID associated with the requested Team |
| player\_id | Player ID associated with the requested Player |

### Request MIME Type

Application/JSON

### Request Body

None

## Response

**Note:** Removing a player to a roster will update the players “current\_team” attribute.

**Note 2:** JWT must correspond to the owner\_id associated with the team to perform removal.

**Note 3:** Players can only be removed from a team while their “current\_team” attribute is set to “None”.

### Response Body Format

None

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |
| Failure | 401 Unauthorized | Returned when owner\_id associated with the provided JWT does not match the owner\_id associated with the team instance. |
| Failure | 404 Not Found | Returned when provided an invalid team\_id or invalid player\_id |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK |

#### Failure

|  |
| --- |
| Status: 401 Unauthorized  Error Message Dependent on Issue with provided JSON Web Token. |
| Status: 404 Not Found  {  "Error": “Player/Team not Found”  } |

# View All Owners (Unprotected)

View all the owners

|  |
| --- |
| GET /owners |

## Request

### Path Parameters

None

### Request MIME Type

Application/JSON

### Request Body

None

## Response

### Response Body Format

JSON

### Response Statuses

|  |  |  |
| --- | --- | --- |
| **Outcome** | **Status Code** | **Notes** |
| Success | 200 OK |  |

### Response Examples

#### Success

|  |
| --- |
| Status: 200 OK  {      "owners": [          {              "username": "user2@test.com"          },          {              "username": "user4@test.com"          },          {              "username": "user3@test.com"          },          {              "username": "user1@test.com"          }      ]  } |