

URL: <https://cloudport-351121.uw.r.appspot.com>

Portfolio Assignment

CS 493: Cloud Application Development

Spring 2022

Oregon State University

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Change log

Version	Change	Date
1.0	Initial version.	June 2, 2022

Data Model

The app stores three different entities in Datastore: Match, Ref, Manager.

Match

Property	Data Type	Notes
id	Integer	The id of the match. Datastore automatically generates this property and it should not be modified.
name	String	Name of the gym where the match is to be played. Must be between 1-25 (inclusive) characters. Required
day	Integer	Indicates the day of the week this match will take place. Requires an integer from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. Required
league	String	The type of league, "male", "female", "co-ed", etc. Required
refs	Array of Integers	Identity of the refs officiating the match. Id's of refs will be added to the array when they are assigned. Will default to an empty array when the Match is first created. No more than two refs allowed for each match. While stored as integers in Datastore, json responses will have refs as links.
manager	String	The id of the gym manager responsible for the gym where the match is being played. This is automatically generated based on the user logged in when the match is created.

Ref

Property	Data Type	Notes
id	Integer	The id of the load. Datastore automatically generates this property and it should not be modified.
firstName	String	First name of referee. Must be between 1-15 characters. Required
lastName	String	Last name of referee. Must be between 1-15 characters. Required
certified	Bool	Identifies whether the ref is USA volleyball certified. Required
available	Array of integers	Indicates the days the ref is available to officiate. Based on this availability, refs can be assigned to officiate matches. Only one match is played per night/per gym. Once a ref is assigned to a match, the day of that match is removed from their availability. Must be an array of integers in ascending order. Requires integers from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. Ex: [1,3,4,6]. Required

Manager (User)

Property	Data Type	Notes
id	Integer	The unique id of the user. On the homepage, user will be asked to log in with google. The returned jwt will be retrieved from google login and the unique id created from the payload.sub property.
fname	String	The first name of the user. This will be retrieved from google at login.
lname	String	The last name of the user. This will be retrieved from google at login.
gyms	Array of Strings	The name of the gym where the user is the gym manager. The gym manager is responsible for creating and overseeing all of the matches to be held at their gym. They may or may not add/delete refs to/from the matches. This will be added automatically when new matches are created.

Create a Match

Allows you to create a new match. **Protected endpoint:** requires valid jwt

POST /match

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	Name of the gym where the match is to be played. Must be between 1-25 (inclusive) characters. Must be a String.	Yes
league	The type of league,. E.g. "male", "female", "co-ed", etc. Must be a String.	Yes
day	Indicates the day of the week this match will take place. Requires a single integer from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday.	Yes

Request Body Example

```
{
  "name": "Curtis",
  "league": "female",
  "day": 2
}
```

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If this response status is received, the match will not be created and the following response message will show: "Error": "The request object is incorrect" Main reasons for status 400 response: <ul style="list-style-type: none">Any of the 3 required attributes are missing.Any of the data types for the attributes are incorrect.The day is less than 1 or greater than 6.The gym name is empty or greater than 25 characters.
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.

Failure	403 Forbidden	Error: This gym already has a match scheduled for the day indicated
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this request.
Failure	500 Internal Server Error	

Notes:

- Datastore will automatically generate an ID and store it with the entity being created. The app will send back this value in the body of the response.
- All property data types used in request must adhere to the data types shown for the value in the descriptions.

Response Examples

Success

Status: 201 Created

```
{
  "id": 123,
  "name": "Curtis",
  "league": "female",
  "day": 2,
  "refs": [],
  "manager": 5678,
  "self": https://cloudport-351121.uc.r.appspot.com/match/123
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is incorrect"
}
```

Get a Match

Allows you to get an existing match. **Protected endpoint:** requires valid jwt & only match manager has access.

GET /match/:match_id

Request

Path Parameters

Name	Description
match_id	ID of the match

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	**each ref assigned to the match, if any, will be shown as a link in the "refs" array.
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	403 Forbidden	Error: Current user is not authorized
Failure	404 Not Found	Error: No match with this match_id exists
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

Status: 200 OK

```
{
  "id": 123,
  "name": "Curtis",
  "league": "female",
  "day": 2,
  "refs": [],
  "manager": 5678,
  "self": https://cloudport-351121.uc.r.appspot.com/match/123
}
```

Failure

Status: 404 Not Found

```
{
  "Error": "No match with this match_id exists"
}
```

Get all Matches

Allows you to get all matches for verified gym manager. **Protected endpoint:** requires valid jwt.

GET /match

Request

Path Parameters

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	**paginated with up to 5 results shown at a time. Link will appear with next set of results if more than 5 unviewed results remain. **each ref assigned to the matches, if any, will be shown as a link in the "refs" array.
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

```
Status: 200 OK
{
  "id": 123,
  "name": "Curtis",
  "league": "female",
  "day": 2,
  "refs": [ https://cloudport-351121.uc.r.appspot.com/ref/123,
            https://cloudport-351121.uc.r.appspot.com/ref/153 ],
  "manager": 5678,
  "self": https://cloudport-351121.uc.r.appspot.com/match/123
}
{
  "id": 456,
  "name": "Curtis",
  "league": "female",
  "day": 3,
  "refs": [],
  "manager": 5678,
  "self": https://cloudport-351121.uc.r.appspot.com/match/456
}
```

Failure

Status: 401 Unauthorized

```
{  
  "Error": " Authorization Token is Incorrect/Expired/Missing."  
}
```

Delete a Match

Allows you to delete a match. **Protected endpoint:** requires valid jwt & only match manager has access.

DELETE /match/:match_id

Request

Path Parameters

Name	Description
match_id	ID of the match

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	403 Forbidden	Error: Current user is not authorized
Failure	404 Not Found	Error: No match with this match_id exists

Response Examples

Success

Status: 204 No Content

Failure

```
Status: 404 Not Found
{
  "Error": "No match with this match_id exists"
}
```


Partially Edit a Match

Allows you to update any subset of attributes while the other attributes remain unchanged. **Protected endpoint:** requires valid jwt & only match manager has access.

PATCH /match/:match_id

Request

Path Parameters

Name	Description
match_id	ID of the match

Request Body

Optional

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	Name of the gym where the match is to be played. Must be between 1-25 (inclusive) characters. Must be a String.	No
league	The type of league,. E.g. "male", "female", "co-ed", etc. Must be a String.	No
day	Indicates the day of the week this match will take place. Requires an integer from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. If the day of the match is changed, any refs assigned to the match will be removed from the match assignment.	No

Notes: match_id cannot be changed. If match_id is added as an attribute, the patch request will complete with the original match_id and the requested match_id will be ignored.

Request Body Example

```
{
  "day": 1
}
```

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	<p>If this response status is received, the match will not be changed and the following response message will show:</p> <p>"Error": "The request object is incorrect"</p> <p>Main reasons for status 400 response:</p> <ul style="list-style-type: none">Any of the data types for the attributes are incorrect.The day is less than 1 or greater than 6.The gym name is empty or greater than 25

		characters.
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	403 Forbidden	Error: This gym already has a match scheduled for the day indicated OR Error: Current user is not authorized
Failure	404 Not Found	Error: No match with this match_id exists
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Notes:

- match_id cannot be changed. If match_id is added as an attribute, the patch request will complete with the original match_id and the requested match_id will be ignored.
- ref assignments cannot be made through this type of put request. After ref assignments are deleted with this request, new ref assignments must be added through the PUT/match/:match_id/:ref_id route.

Response Examples

Success

Status: 200 OK

```
{
  "id": 123,
  "name": "Curtis",
  "league": "female",
  "day": 1,
  "refs": [],
  "manager": 5678,
  "self": https://cloudport-351121.uc.r.appspot.com/match/123
}
```

Failure

Status: 404 Not Found

```
{
  "Error": " No match with this match_id exists"
}
```

Fully Edit a Match

A full update of the match properties. **Protected endpoint:** requires valid jwt & only match manager has access.

PUT /match/:match_id

Request

Path Parameters

Name	Description
match_id	ID of the match

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
name	Name of the gym where the match is to be played. Must be between 1-25 (inclusive) characters. Must be a String.	Yes
league	The type of league,. E.g. "male", "female", "co-ed", etc. Must be a String.	Yes
day	Indicates the day of the week this match will take place. Requires an integer from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. Any refs assigned to the match previously will be removed from the match assignment.	Yes

Notes:

- match_id cannot be changed. If match_id is added as an attribute, the put request will complete with the original match_id and the requested match_id will be ignored.
- ref assignments cannot be made through this type of put request. After ref assignments are deleted with this request, new ref assignments must be added through the PUT/match/:match_id/:ref_id route.

Request Body Example

```
{
  "name": "Reed",
  "league": "female",
  "day": 5
}
```

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	303 See Other	The URL of the updated match will be included in the Location header of the response.
Failure	400 Bad Request	If this response status is received, the match will not be

		<p>created and the following response message will show:</p> <p>“Error”: “The request object is incorrect”</p> <p>Main reasons for status 400 response:</p> <ul style="list-style-type: none"> • One of the 3 required attributes is missing from the request. • Any of the data types for the attributes are incorrect. • The day is less than 1 or greater than 6. • The gym name is empty or greater than 25 characters.
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	403 Forbidden	<p>Error: This gym already has a match scheduled for the day indicated</p> <p>OR</p> <p>Error: Current user is not authorized</p>
Failure	404 Not Found	Error: No match with this match_id exists
Failure	406 Not Acceptable	<p>Error: Not Acceptable</p> <p>**Server only returns application/json for this type of request.</p>
Failure	500 Internal Server Error	

Response Examples

Success

Status: 200 OK

```
{
  "id": 123,
  "name": "Reed",
  "league": "female",
  "day": 5,
  "refs": [],
  "manager": 5678,
  "self": https://cloudport-351121.uc.r.appspot.com/match/123
}
```

Failure

Status: 404 Not Found

```
{
  "Error": " No match with this match_id exists"
}
```

Get Refs Assigned to a Match

Allows you to get the ref info for the refs assigned to a specific match. **Protected endpoint:** requires valid jwt & only match manager has access.

GET /match/:match_id/ref

Request

Path Parameters

Name	Description
match_id	ID of the match

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	404 Not Found	Error: No match with this match_id exists
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

```
Status: 200 OK
{
  "certified": true,
  "lname": "Concannon",
  "available": [5,6],
  "fname": "Red",
  "id": "4863550283579392",
  "self": "http://localhost:8080/ref/4863550283579392",
  "matches": [
    {
      "gym": "Curtis",
      "day": 2,
      "self": "http://localhost:8080/match/5990240229523456"
    }
  ]
}
```

Failure

```
Status: 401 Unauthorized
{
  "Error": " Authorization Token is Incorrect/Expired/Missing."
}
```

Create a Ref

Allows you to create a new ref. **Not a protected endpoint:** May be accessed by anyone.

POST /ref

Request

Path Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
fname	First name of referee. String. Must be between 1-15 characters(inc).	Yes
lname	Last name of referee. String. Must be between 1-15 characters(inc).	Yes
certified	Identifies whether the ref is USA volleyball certified. Bool	Yes
available	Indicates the days the ref is available to officiate. Must be an array of integers in ascending order. Requires integers from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. Ex: [1,3,4,6].	Yes

Request Body Example

```
{
  "fname": "Red",
  "lname": "Concannon",
  "certified": true,
  "available": [2,5,6]
}
```

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	<p>If this response status is received, the match will not be created and the following response message will show:</p> <p>“Error”: “The request object is incorrect”</p> <p>Main reasons for status 400 response:</p> <ul style="list-style-type: none">• Any of the required attributes are missing.• Any of the data types for the attributes are incorrect.• The days available are less than 1 or greater than 6.• The fname &/or lnames are empty or greater than

		15 characters each.
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Notes:

- Datastore will automatically generate an ID and store it with the entity being created. The app will send back this value in the body of the response.
- All property data types used in request must adhere to the data types shown for the value in the descriptions.

Response Examples

Success

```
Status: 201 Created
{
  "id": 123,
  "fname": "Red",
  "lname": "Concannon",
  "certified": true,
  "available": [2,5,6],
  "matches": [],
  "self": https://cloudport-351121.uc.r.appspot.com/ref/123
}
```

Failure

```
Status: 400 Bad Request
{
  "Error": "The request object is incorrect"
}
```

Get ref

Allows you to get an existing ref. **Not a protected endpoint:** May be accessed by anyone.

GET /ref/:ref_id

Request

Path Parameters

Name	Description
ref_id	ID of the ref

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	404 Not Found	Error: No ref with this ref_id exists
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

Status: 200 OK
<pre>{ "id": 123, "fname": "Red", "lname": "Concannon", "certified": true, "available": [2,5,6], "matches": [], "self": https://cloudport-351121.uc.r.appspot.com/ref/123 }</pre>

Failure

Status: 404 Not Found
<pre>{ "Error": "No ref with this ref_id exists" }</pre>

Get all Refs

Allows you to get all refs in the database. **Not a protected endpoint:** May be accessed by anyone.

GET /ref

Request

Path Parameters

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	**paginated with up to 5 results shown at a time. Link will appear with next set of results if more than 5 unviewed results remain.
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

Status: 200 OK

```
{
  "id": 123,
  "fname": "Red",
  "lname": "Concannon",
  "certified": true,
  "available": [2,5,6],
  "matches": [],
  "self": https://cloudport-351121.uc.r.appspot.com/ref/123
}
{
  "id": 456,
  "fname": "Mary",
  "lname": "Poppins",
  "certified": true,
  "available": [2,3,5,6],
  "matches": [],
  "self": https://cloudport-351121.uc.r.appspot.com/ref/456
}
```

Failure

Status: 500 Internal Server Error

Delete a Ref

Allows you to delete a ref.

DELETE /ref/:ref_id

Request

Path Parameters

Name	Description
ref_id	ID of the ref

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	Error: No ref with this ref_id exists

Notes:

- Deleted refs will also be removed from any match assignments that they may currently hold.

Response Examples

Success

Status: 204 No Content

Failure

Status: 404 Not Found

```
{  
  "Error": "No ref with this ref_id exists"  
}
```

Partially Edit a Ref

Allows you to update any subset of request attributes for a ref while the other attributes remain unchanged. **Not a protected endpoint:** May be accessed by anyone.

PATCH /ref/:ref_id

Request

Path Parameters

Name	Description
ref_id	ID of the ref

Request Body

Optional

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
fname	First name of referee. String. Must be between 1-15 characters(inc).	No
lname	Last name of referee. String. Must be between 1-15 characters(inc).	No
certified	Identifies whether the ref is USA volleyball certified. Bool	No
available	Indicates the days the ref is available to officiate. Must be an array of integers in ascending order. Requires integers from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. Ex: [1,3,4,6]. ***If this attribute is updated, all previously held match assignments will be deleted. You must resubmit requests to officiate any matches that align with the new updated availability schedule. ***If this attribute is not changed, then all match assignments for this ref will remain as is.	No

Notes: ref_id cannot be changed. If ref_id is added as an attribute, the patch request will complete with the original ref_id and the requested ref_id will be ignored.

Request Body Example

```
{
  "certified": false
}
```

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	If this response status is received, the match will not be created and the following response message will show: "Error": "The request object is incorrect"

		<p>Main reasons for status 400 response:</p> <ul style="list-style-type: none"> Any of the required attributes are missing. Any of the data types for the attributes are incorrect. The days available are less than 1 or greater than 6. The fname &/or lname are empty or greater than 15 characters each.
Failure	404 Not Found	Error: No ref with this ref_id exists
Failure	406 Not Acceptable	<p>Error: Not Acceptable</p> <p>**Server only returns application/json for this type of request.</p>
Failure	415 Unsupported Media Type	Error: Server only accepts application/json data
Failure	500 Internal Server Error	

Response Examples

Success

```
Status: 200 OK
{
  "id": 123,
  "fname": "Red",
  "lname": "Concannon",
  "certified": false,
  "available": [2,5,6],
  "matches": [],
  "self": https://cloudport-351121.uc.r.appspot.com/ref/123
}
```

Failure

```
Status: 404 Not Found
{
  "Error": " No match with this match_id exists"
}
```

Fully Edit a Ref

All attributes of the ref are updated. All match assignments are deleted and must be resubmitted. **Not a protected endpoint:** May be accessed by anyone.

PUT /ref/:ref_id

Request

Path Parameters

Name	Description
ref_id	ID of the ref

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Description	Required?
fname	First name of referee. String. Must be between 1-15 characters(inc).	Yes
lname	Last name of referee. String. Must be between 1-15 characters(inc).	Yes
certified	Identifies whether the ref is USA volleyball certified. Bool	Yes
available	Indicates the days the ref is available to officiate. Must be an array of integers in ascending order. Requires integers from 1-6(inclusive). 1 = Monday, 2 = Tuesday, 3 = Wednesday, 4 = Thursday, 5= Friday, 6 = Saturday. Matches do not take place on Sunday. Ex: [1,3,4,6]. ***When this attribute is updated, all previously held match assignments will be deleted. You must resubmit requests to officiate any matches that align with the new updated availability schedule.	Yes

Notes: ref_id cannot be changed. If ref_id is added as an attribute, the patch request will complete with the original ref_id and the requested ref_id will be ignored.

Request Body Example

```
{
  "fname": "Barry",
  "lname": "Cannon",
  "certified": true,
  "available": [2,4,5,6]
}
```

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 Ok	
Failure	400 Bad Request	If this response status is received, the match will not be created and the following response message will show:

		“Error”: “The request object is incorrect” Main reasons for status 400 response: <ul style="list-style-type: none"> • Any of the required attributes are missing. • Any of the data types for the attributes are incorrect. • The days available are less than 1 or greater than 6. • The fname &/or lname are empty or greater than 15 characters each.
Failure	404 Not Found	Error: No ref with this ref_id exists
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	415 Unsupported Media Type	Error: Server only accepts application/json data.
Failure	500 Internal Server Error	

Response Examples

Success

```
Status: 200 Ok
{
  "id": 123,
  "fname": "Barry",
  "lname": "Cannon",
  "certified": true,
  "available": [2,4,5,6],
  "matches": [],
  "self": https://cloudport-351121.uc.r.appspot.com/ref/123
}
```

Failure

```
Status: 404 Not Found
{
  "Error": " No ref with this ref_id exists"
}
```

Assign a Ref to a Match

Allows you to assign a ref to a particular match. **Not a protected endpoint:** May be accessed by anyone.

PUT /match/:match_id/:ref_id

Request

Path Parameters

Name	Description
match_id	ID of the match
ref_id	ID of the ref

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	403 Forbidden	Error: The ref is unavailable or max refs have already been reached for this match **Maximum of 2 refs can be assigned to each match.
Failure	404 Not Found	Error: The specified match and/or ref does not exist
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

```
Status: 200 OK
{
  "league": "coed",
  "manager": "106188484164244420364",
  "day": 2,
  "name": "Curtis",
  "refs": [http://localhost:8080/ref/4863550283579392],
  "id": "5990240229523456",
  "self": "http://localhost:8080/match/5990240229523456"
}
```

Failure

```
Status: 404 Not Found
{
  "Error": "No ref with this ref_id exists"
}
```

Delete a ref from a match

Allows you to assign a ref to a particular match. **Not a protected endpoint:** May be accessed by anyone.

DELETE/match/:match_id/:ref_id

Request

Path Parameters

Name	Description
match_id	ID of the match
ref_id	ID of the ref

Request Body

None

Response

Response Body Format

None

Response Statuses

Outcome	Status Code	Notes
Success	204 No response	
Failure	401 Unauthorized	Error: Authorization Token is Incorrect/Expired/Missing.
Failure	403 Forbidden	Error: The ref_id provided is not assigned to the match_id provided
Failure	404 Not Found	Error: The specified match and/or ref does not exist.
Failure	500 Internal Server Error	

Response Examples

Success

Status: 204 No Response

Failure

```
Status: 404 Not Found
{
  "Error": " The specified match and/or ref does not exist"
}
```


Get all Managers (Users)

Allows you to get all gym managers or users who have logged in. **Not a protected endpoint:** May be accessed by anyone.

GET /users

Request

Path Parameters

Request Body

None

Response

Response Body Format

Application/JSON- must be requested in the accept header

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	**paginated with up to 5 results shown at a time. Link will appear with next set of results if more than 5 unviewed results remain.
Failure	406 Not Acceptable	Error: Not Acceptable **Server only returns application/json for this type of request.
Failure	500 Internal Server Error	

Response Examples

Success

Status: 200 OK

```
{
  "id": 123,
  "fname": "Red",
  "lname": "Concannon",
  "gyms": ["Curtis", "Reed"],
  "self": https://cloudport-351121.uc.r.appspot.com/users/123
}
{
  "id": 456,
  "fname": "Mary",
  "lname": "Poppins",
  "gyms": [],
  "self": https://cloudport-351121.uc.r.appspot.com/users/456
}
```

Failure

Status: 500 Internal Server Error