

# **CMPE 275 Section 1, Spring 2022**

## **Lab 2 - REST and Persistence**

### **Group 6**

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**Base URL:** http://54.241.140.6:8080

## API Requests -

### *Player APIs*

(1) Create a player

Path: player?firstname=XX&lastname=YY&email=ZZ&description=UU&..

Method: POST

#### **i. Missing required parameter 'lastname'**

54.241.140.6:8080/player?firstName=Stephen&email=steph.curry@gmail.com&street=77 Chain St.&city=San Francisco&state=&zip=96123

The screenshot shows a REST client interface for a 'Create Player' endpoint. The request is a POST to '54.241.140.6:8080/player?firstName=Stephen&email=steph.curry@gmail.com&street=77 Chain St.&city=San Francisco&state=&zip=96123'. The 'Params' tab is active, showing a table of query parameters. The 'state' parameter is missing, which is why the request failed with a 400 Bad Request error.

Key	Value	Description
<input checked="" type="checkbox"/> street	77 Chain St.	
<input checked="" type="checkbox"/> city	San Francisco	
<input checked="" type="checkbox"/> state		
<input checked="" type="checkbox"/> zip	96123	
<input type="checkbox"/> teamId		

Body: 

```
1 {
2   "timestamp": "2022-04-20T03:31:49.032+00:00",
3   "status": 400,
4   "error": "Bad Request",
5   "path": "/player"
6 }
```

#### **ii. Successful creation of player (with optional parameters missing)**

54.241.140.6:8080/player?firstName=Stephen&lastName=Curry&email=steph.curry@gmail.com&street=77 Chain St.&city=San Francisco&zip=96123

275-lab2 / Create Player (1)

POST 54.241.140.6:8080/player?firstName=Stephen&lastName=Curry&email=steph.curry@gmail.com&street=77 Chain St.&city=San Francisco&zip=96123 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

<input checked="" type="checkbox"/>	street	77 Chain St.
<input checked="" type="checkbox"/>	city	San Francisco
<input type="checkbox"/>	state	
<input checked="" type="checkbox"/>	zip	96123

Body Cookies Headers (5) Test Results Status: 200 OK Time: 126 ms Size: 379 B Save Response

Pretty Raw Preview Visualize JSON

```

1  {
2    "id": 1,
3    "firstName": "Stephen",
4    "lastName": "Curry",
5    "email": "steph.curry@gmail.com",
6    "description": null,
7    "address": {
8      "street": "77 Chain St.",
9      "city": "San Francisco",
10     "zip": "96123",
11     "state": null
12   },
13   "team": null,
14   "opponents": null
15 }

```

### iii. Successful creation of player depicting deep form.

54.241.140.6:8080/player?firstName=Kevin&lastName=Durant&email=kevin.durant@gmail.com&street=66 Stall St.&city=San Francisco&state=California&zip=96111&teamId=2

275-lab2 / Create Player (1)

POST 54.241.140.6:8080/player?firstName=Kevin&lastName=Durant&email=kevin.durant@gmail.com&street=66 Stall St.&city=San Francisco&state=California&zip=96111&teamId=2 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

<input checked="" type="checkbox"/>	teamId	2
	Key	Value
		Description

Body Cookies Headers (5) Test Results Status: 200 OK Time: 70 ms Size: 658 B Save Response

Pretty Raw Preview Visualize JSON

```

1  {
2    "id": 3,
3    "firstName": "Kevin",
4    "lastName": "Durant",
5    "email": "kevin.durant@gmail.com",
6    "description": null,
7    "address": {
8      "street": "66 Stall St.",
9      "city": "San Francisco",
10     "zip": "96111",
11     "state": "California"
12   },
13   "team": {
14     "id": 2,
15     "name": "Golden State Warriors",
16     "description": "The Golden State Warriors are an American professional basketball team based in San Francisco. The Warriors compete in the National Basketball Association, as a member of the league's Western Conference Pacific Division"
17   },
18   "opponents": null
19 }

```

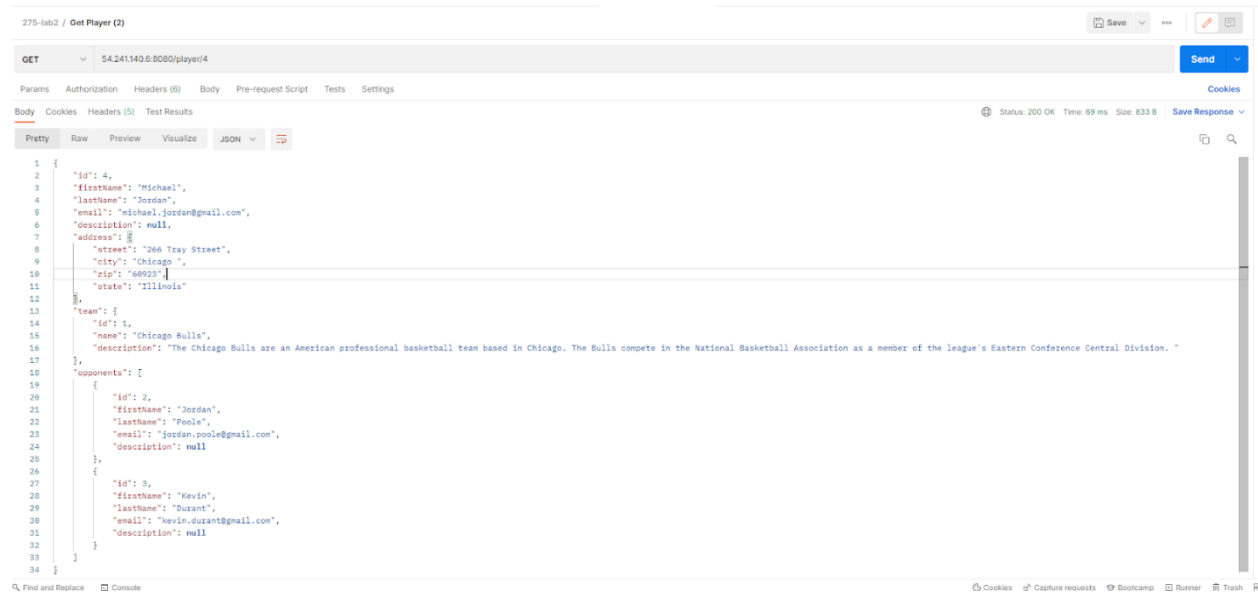
## (2) Get a player

Path: player/{id}

Method: GET

### i. Get Player Details

54.241.140.6:8080/player/4



## (3) Update a player

Path:

player/{id}?firstName=XX&lastName=YY&email=ZZ&description=UU&street=VV\$..

Method: PUT

### I. Updating a player Successfully

54.241.140.6:8080/player/1?firstName=Steph&lastName=Curry&email=steph.curry@gmail.com&teamId=2

275-lab2 / Update Player (3) Save ... ...

PUT 54.241.140.6:8080/player/1?firstName=Steph&lastName=Curry&email=stephen.curry@gmail.com&teamId=2 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> firstName	Steph			
<input checked="" type="checkbox"/> lastName	Curry			
<input checked="" type="checkbox"/> email	stephen.curry@gmail.com			
<input checked="" type="checkbox"/> teamId	2			
Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 98 ms Size: 412 B Save Response

Pretty Raw Preview Visualize JSON ...

```
1 {
2   "id": 1,
3   "firstName": "Steph",
4   "lastName": "Curry",
5   "email": "stephen.curry@gmail.com",
6   "description": null,
7   "address": {
8     "street": null,
9     "city": null,
10    "zip": null,
11    "state": null
12  },
13   "team": {
14     "id": 2,
15     "name": "Golden State Warriors 2022",
16     "description": null
17   },
18   "opponents": []
19 }
```

## ii. Invalid player updation

54.241.140.6:8080/player/1?firstName=Steph&lastName=Curry&teamId=2

275-lab2 / Update Player (3) Save ... ...

PUT 54.241.140.6:8080/player/1?firstName=Steph&lastName=Curry&teamId=2 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> firstName	Steph			
<input checked="" type="checkbox"/> lastName	Curry			
<input type="checkbox"/> email	stephen.curry@gmail.com			
<input checked="" type="checkbox"/> teamId	2			
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 400 Bad Request Time: 50 ms Size: 243 B Save Response

Pretty Raw Preview Visualize JSON ...

```
1 {
2   "timestamp": "2022-04-20T04:14:37.735+00:00",
3   "status": 400,
4   "error": "Bad Request",
5   "path": "/player/1"
6 }
```

#### (4) Delete a player

URL: `http://player/{id}`

Method: DELETE

54.241.140.6:8080/player/2

275-lab2 / Delete Player (4) Save Send

DELETE 54.241.140.6:8080/player/2

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (5) Test Results Status: 200 OK Time: 128 ms Size: 552 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": 2,
3    "firstName": "Jordan",
4    "lastName": "Poole",
5    "email": "jordan.poole@gmail.com",
6    "description": null,
7    "address": {
8      "street": "90 Mullin Street",
9      "city": "San Francisco",
10     "zip": "96123",
11     "state": "California"
12   },
13   "team": {
14     "id": 2,
15     "name": "Golden State Warriors 2022",
16     "description": null
17   },
18   "opponents": [
19     {
20       "id": 4,
21       "firstName": "Michael",
22       "lastName": "Jordan",
23       "email": "michael.jordan@gmail.com",
24       "description": null
25     }
26   ]
27 }
```

## Team APIs

### (5) Create a team

Path: team?name=XX&description=YY&street=ZZ&...

Method: POST

#### i. Bad Request due to missing required parameter 'name'

54.241.140.6:8080/team?description=The Chicago Bulls are an American professional basketball team based in Chicago. The Bulls compete in the National Basketball Association as a member of the league's Eastern Conference Central Division. &street=1901 W Madison St&city=Chicago&state=Illinois&zip=60612

The screenshot shows a REST client interface with the following details:

- URL:** 54.241.140.6:8080/team?description=The Chicago Bulls are an American professional basketball team based in Chicago. The Bulls compete in th...
- Method:** POST
- Params:**

Key	Value
name	Chicago Bulls
description	The Chicago Bulls are an American professional basketb...
street	1901 W Madison St
city	Chicago
state	Illinois
- Status:** 400 Bad Request
- Time:** 374 ms
- Size:** 239 B
- Response Body (JSON):**

```
{  "timestamp": "2022-04-20T03:21:04.788+00:00",  "status": 400,  "error": "Bad Request",  "path": "/team"}
```

#### ii. Successfully creating a team

54.241.140.6:8080/team?name=Chicago Bulls&description=The Chicago Bulls are an American professional basketball team based in Chicago. The Bulls compete in the National Basketball Association as a member of the league's Eastern Conference Central Division. &street=1901 W Madison St&city=Chicago&state=Illinois&zip=60612

275-lab2 / Create Team (5)

POST 54.241.140.6:8080/team?name=Chicago Bulls&description=The Chicago Bulls are an American professional basketball team based in Chicago. Tr... Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> name	Chicago Bulls			
<input checked="" type="checkbox"/> description	The Chicago Bulls are an American professional basketb...			
<input checked="" type="checkbox"/> street	1901 W Madison St			
<input checked="" type="checkbox"/> city	Chicago			

Body Cookies Headers (5) Test Results Status: 200 OK Time: 626 ms Size: 521 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": 1,
3    "name": "Chicago Bulls",
4    "description": "The Chicago Bulls are an American professional basketball team based in Chicago. The Bulls compete in the National
5      Basketball Association as a member of the league's Eastern Conference Central Division. ",
6    "address": {
7      "street": "1901 W Madison St",
8      "city": "Chicago",
9      "zip": "60612",
10     "state": "Illinois"
11   },
12   "players": null
13 }
```

## (6) Get a team

Path:team/{id}

Method: GET

54.241.140.6:8080/team/2

275-lab2 / Get Team (6)

GET 54.241.140.6:8080/team/2 Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk E
Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 49 ms Size: 747 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": 2,
3    "name": "Golden State Warriors",
4    "description": "The Golden State Warriors are an American professional basketball team based in San Francisco. The Warriors compete in the National Basketball Association, as a
5      member of the league's Western Conference Pacific Division",
6    "address": {
7      "street": "77 Spell St.",
8      "city": "San Francisco",
9      "zip": "94102",
10     "state": "California"
11   },
12   "players": [
13     {
14       "id": 2,
15       "firstName": "Jordan",
16       "lastName": "Poole",
17       "email": "jordan.poole@gmail.com",
18       "description": null
19     },
20     {
21       "id": 3,
22       "firstName": "Kevin",
23       "lastName": "Durant",
24       "email": "kevin.durant@gmail.com",
25       "description": null
26     }
27   ]
28 }
```



## (7) Update a team

Path: team/{id}?name=XX&description=YY&street=ZZ&...

Method: PUT

54.241.140.6:8080/team/2?name=Golden State Warriors -

2022&description=Newly updated Team&street=88 Second street&state=CA

The screenshot shows a REST client interface with the following details:

- URL:** 54.241.140.6:8080/team/2?name=Golden State Warriors - 2022&description=Newly updated Team&street=88 Second street&state=CA
- Method:** PUT
- Params:**

Key	Value
description	Newly updated Team
street	88 Second street
state	CA
- Body:** The response is displayed in JSON format:

```
1 {
2   "id": 2,
3   "name": "Golden State Warriors - 2022",
4   "description": "Newly updated Team",
5   "address": {
6     "street": "88 Second street",
7     "city": null,
8     "zip": null,
9     "state": "CA"
10  },
11   "players": [
12     {
13       "id": 1,
14       "firstName": "Steph",
15       "lastName": "Curry",
16       "email": "stephen.curry@gmail.com",
17       "description": null
18     },
19     {
20       "id": 3,
21       "firstName": "Kevin",
22       "lastName": "Durant",
23       "email": "kevin.durant@gmail.com",
24       "description": null
25     }
26   ]
27 }
```
- Status:** 200 OK, Time: 65 ms, Size: 535 B

## (8) Delete a team

URL: http://team/{id}

Method: DELETE

54.241.140.6:8080/team/2

DELETE ⌵ 54.241.140.6:8080/team/2

Send ⌵

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Cookies

Query Params

KEY	VALUE	DESCRIPTION	⋮	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 59 ms Size: 535 B Save Response ⌵

Pretty Raw Preview Visualize JSON ⌵ 🔍

```
1 {
2   "id": 2,
3   "name": "Golden State Warriors - 2022",
4   "description": "Newly updated Team",
5   "address": {
6     "street": "88 Second street",
7     "city": null,
8     "zip": null,
9     "state": "CA"
10  },
11  "players": [
12    {
13      "id": 1,
14      "firstName": "Steph",
15      "lastName": "Curry",
16      "email": "stephen.curry@gmail.com",
17      "description": null
18    },
19    {
20      "id": 3,
21      "firstName": "Kevin",
22      "lastName": "Duzant",
23      "email": "kevin.durant@gmail.com",
24      "description": null
25    }
26  ]
27 }
```

# Opponent's APIs

(9) Add an opponent

Path:opponents/{id1}/{id2}

Method: PUT

54.241.140.6:8080/opponents/2/4

275-lab2 / Create Opponent (9)

Save

Send

POST 54.241.140.6:8080/opponents/2/4

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 126 ms Size: 181 B Save Response

Pretty Raw Preview Visualize Text

1 Recorded opponent

(10) Remove an opponent

Path:opponents/{id1}/{id2}

Method: DELETE

54.241.140.6:8080/opponents/3/4

275-lab2 / Remove Opponent (10)

Save

Send

DELETE 54.241.140.6:8080/opponents/3/4

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	Bulk Edit
Key	Value	Description	

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 125 ms Size: 193 B Save Response

Pretty Raw Preview Visualize Text

1 Removed opponent successfully