Objective

The objective of this workshop is to practice designing RESTful web services. In particular, this workshop will also focus on the GET and the POST method and designing resource names.

Setup

- a. Open workshop01 folder in your IDE. Open main.js file in the editor.
- b. Execute

```
npm install
```

in workshop01 directory to install the required modules

Workshop

You are given a Node application which interacts with a boardgame database. Implement the following REST endpoint and features.

The database functionalities are found in the database.js file.

GET /games

Return an array of game resources URL in a JSON array.

Use findAllGames () to get the result. The function takes 2 positional parameters

- offset set which game to start retrieving the data from. Defaults to 0
- limit limit the number of games returned. Default to 10

Allow a way for the HTTP request to configure these 2 parameters. If any of these values are not specified in the request, then use the default value.

You should return the result in the following format

```
[ "/game/<game id 1>", "/game/<game id 2>", ... ]
```

GET /game/<game_id>

Eg. GET /game/abc123 - return the boardgame details with game_id as abc123.

Use findGameById (gameId) to find the game from the database.

The request should return the following status code

- 404 if the game id does not exist
- 200 otherwise

Return the following JSON payload according to the status code

• 404

```
{ "error": "Game <game_id> not found" }
```

• 200 - result from findGameById()

POST /comment

Post a comment for a game. The request should send the content type as JSON payload with the following properties

- user (string) user name
- rating (integer) your rating of the game, 1 (worst) to 10 (best)
- c_text (string) your comments
- gid (number) the game id that you are commenting on

Use the function insertComment (comment) where the comment parameter is the above object. The request should return the following status code.

- 400 if any of the following conditions is true
 - o Any of the above properties is missing, or
 - o If the rating property is not within the specified rating range, or
 - o the comment text is empty, or
 - the game id does not exist
- 200 successfully posted the new comment

Return the following JSON payload according to the status code

```
400
{ "error": "Your error message" }200
{ "id": "<comment id>" }
```

Optional Workshop

Content Negotiation

Allow the request

```
GET /game/<game id>
```

to return result as CSV (comma separated values). The response content should be in the following format

```
id, name, year, ranking, users_rated, url, image
1, Die Macher, 1986, 223, 4777, https://..., https://...
```

with a 200 status code.

Return a 415 status code if the requested media is not CSV or JSON with the following format

```
{ "error": "Media <media> is not supported" }
```

Partial Results

Allow the response of

```
GET /games
```

to advertise support for partial request. Implement the HEAD method to return the HTTP Range header.

Modify the GET /games request handler to support partial request.

Rate Limit

Throttle the **GET** /games endpoint to 3 request per 5 seconds.

Submission

When you have completed this workshop perform a push to your remote repository.

```
git add .
git commit -m 'workshop01'
git push origin master
```