

Ceng 453 - Software Construction

High level Documentation of Term Project

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Backend API (Server Phase)

This phase of the project aims to provide DB access to the users, running frontend application of the same project. There has introduced two RESTController API points, responsible from user and score operations. In the later parts of the document, usages of those endpoints will be explained.

1 - Operations on User

Op. No	Method	Object	Purpose	Discussions
1	Post	/signup	Registering new user	-

Example Input Body

```
1 {  
2   "username": "ceng453_user",  
3   "password": "123*45oum",  
4   "email": "mert.tunc@ceng.metu.ed.tr"  
5 }
```

Example Output Body

```
1 {  
2   "id": 113,  
3   "username": "'+1=1",  
4   "email": "mmmeedddssss6@gmail.com",  
5   "password": "df73f0ae983b2e35de9c1a2a3728fc70",  
6   "session": "6e32a57ad32f7d2ab87099fd2f6a716d",  
7   "createDateTime": "2018-11-15T12:51:20.824765",  
8   "updateDateTime": "2018-11-15T12:51:20.824802"  
9 }
```

Op. No	Method	Object	Purpose	Discussions
2	Post	/login	Logging in	User will be given a "session_token" after its successful authentication

Example Input Body

```

1 {
2   "username": "mmmeedddsss",
3   "password": "panestennes"
4 }
```

Example Output Body

Token will be valid until a new login attempt

```

1 {
2   "Token": "603dbbd8cd8ddc6de9ca1ca663c1b13"
3 }
```

Op. No	Method	Object	Purpose	Discussions
3	Put	/user	Updating an existing user	Authentication will be done from "token" parameter, all of the other fields might be changed

Example Input Body

From token, a matching user information will be changed according to the given values

```

1 {
2   "username": "mmmeedddsss",
3   "password": "panestennes",
4   "email": "merttunc96@gmail.com",
5   "token": "603dbbd8cd8ddc6de9ca1ca663c1b13"
6 }
```

Example Output Body

Updated user entry

```
1 {  
2   "username": "mmmeedddsss",  
3   "password": "panestennes",  
4   "email": "merttunc96@gmail.com",  
5   "token": "603dbbd8cd8ddc6de9ca1ca663c1b13"  
6 }
```

Op. No	Method	Object	Purpose	Discussions
4	Delete	/user	Deleting an existing user	Authentication will be done from "token" parameter

Example Input Body

```
1 {  
2   "username": "mmmeedddsss",  
3   "password": "panestennes",  
4   "email": "merttunc96@gmail.com",  
5   "token": "603dbbd8cd8ddc6de9ca1ca663c1b13"  
6 }
```

Example Output Body

- Empty response body -

Op. No	Method	Object	Purpose	Discussions
5	Get	/allUsers	Getting all the Users in the database	-It is written for debug purposes.

2 - Operations on Score

Op. No	Method	Object	Purpose	Discussions
1	Post	/score	Logging/Adding a new score	Authentication will be done from "token" parameter, score log will be added for that user

Example Input Body

```
1 {  
2   "token": "603dbbd8cd8ddc6de9ca1ca663c1b13",  
3   "score": "98765"  
4 }
```

Example Output Body

Data on the body is added for debug purposes, there is no plan to use that data for any functionality, might be erased in future

```
1 {  
2   "score_id": 123,  
3   "user": {  
4     "id": 89,  
5     "username": "mmmeeedddsss",  
6     "email": "merttunc96@gmail.com",  
7     "password": "df73f0ae983b2e35de9c1a2a3728fc70",  
8     "session": "603dbbd8cd8ddc6de9ca1ca663c1b13",  
9     "createDateTime": "2018-11-15T09:58:56",  
10    "updateDateTime": "2018-11-15T13:19:05"  
11  },  
12  "createDateTime": "2018-11-15T18:58:47.466749",  
13  "score": 1  
14 }
```

Op. No	Method	Object	Purpose	Discussions
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2	Get	/leaderboard/all_time	Getting the all-time leaderboard	-
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Example Input Body

- Empty request body or parameter list -

Example Output Body

```

1  [
2    {
3      "score": "98766",
4      "user_id": "89",
5      "username": "mmmeeeddss"
6    },
7    {
8      "score": "0",
9      "user_id": "80",
10     "username": "egemen"
11   },
12   {
13     "score": "0",
14     "user_id": "113",
15     "username": "'+1=1"
16   },
17   {
18     "score": "0",
19     "user_id": "115",
20     "username": "masdasdadt"
21   }
22 ]

```

Op. No	Method	Object	Purpose	Discussions
3	Get	/leaderboard/7_days	Getting the leaderboard for past seven days	-

Example Input Body

- Empty request body or parameter list -

Example Output Body

```

1  [
2    {
3      "score": "98765",
4      "user_id": "89",
5      "username": "mmmeeeddsss"
6    },
7    {
8      "score": "0",
9      "user_id": "80",
10     "username": "egemen"
11   }
12 ]

```

Op. No	Method	Object	Purpose	Discussions
4	Get	/userScores	Getting list of scores for the user	-

Example Input Body

- It expects User id

```

1  {
2    "id": 80
3  }

```


Example Output Body

```
1 [
2   {
3     "score_id": 81,
4     "user": {
5       "id": 80,
6       "username": "egemen",
7       "email": "egemenberkgalatali@gmail.com",
8       "password": "81dc9bdb52d04dc2036dbd8313ed055",
9       "session": "e725ad9964b3398cf1cb77d227857871",
10      "createDateTime": "2018-11-13T11:24:20",
11      "updateDateTime": "2018-11-13T11:24:20"
12    },
13    "createDateTime": "2018-11-13T11:24:21",
14    "score": 0
15  }
16 ]
```

Op. No	Method	Object	Purpose	Discussions
5	Get	/allScores	Getting all the Scores in the database	-It is written for debug purposes.