

Ceng 453

REST API Documentation

REST API Documentation

This documentation lists REST API requests of our server implementation with examples.

1 - User Operations

Path of the all user operations has *http://SERVER_IP_ADDRESS:PORT/api/user* as prefix.

Method	Path	Objective	Comments
POST	/login	Login with existing user credentials.	-

Example Request Body

```
1 {  
2   "name": "testuser01",  
3   "password": "123"  
4 }
```

Example Response Body

If login is successful returns userId, else returns false.

Method	Path	Objective	Comments
POST	/signup	Create a new user.	

Example Request Body

```
1 {  
2   "name": "test00001",  
3   "password": "123456"  
4 }
```

Example Response Body

```
1 {  
2   "id": 18,  
3   "name": "test00001",  
4   "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"  
5 }
```

Method	Path	Objective	Comments
POST	/passwordchange	Changes password of user with given userId	

Example Request Body

```
1 {  
2   "userid":18,  
3   "oldPassword":"123456",  
4   "newPassword":"123"  
5 }
```

Example Response Body

Returns true if successful, false otherwise.

Method	Path	Objective	Comments
POST	/update	Updating existing user record	This is used for test purpose, thus it sets password as it is.

Example Request Body

```
1 {  
2   "id": "18",  
3   "name": "test0022",  
4   "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"  
5 }
```

Example Response Body

Returns same as request body if successful, false otherwise.

Method	Path	Objective	Comments
DELETE	/delete	Deletes users with given ids.	

Example Request Body

```
1  ["3","4","8"]
2
```

Method	Path	Objective	Comments
GET	/getAll	Returns list of all user records.	

Example Response Body

```
1  [
2    {
3      "id": 1,
4      "name": "eray",
5      "password": "a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3"
6    },
7    {
8      "id": 2,
9      "name": "zumrud",
10     "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
11   },
12   {
13     "id": 4,
14     "name": "testUser2",
15     "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
16   },
17   {
18     "id": 5,
19     "name": "asdwas3",
20     "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
21   },
22   {
23     "id": 8,
24     "name": "test",
25     "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
26   },
27 ]
```

Method	Path	Objective	Comments
GET	/getUserScoreList/ user_id	Returns list of score records of a user.	This is used for testing.

Example Response Body

```

1  [
2    {
3      "id": 1,
4      "score": 251,
5      "endTime": "2020-02-15T14:45:00.000+0000",
6      "user": {
7        "id": 1,
8        "name": "eray",
9        "password": "a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3"
10       }
11     },
12     {
13       "id": 4,
14       "score": 210,
15       "endTime": "2020-02-21T14:45:00.000+0000",
16       "user": {
17         "id": 1,
18         "name": "eray",
19         "password": "a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3"
20       }
21     },
22     {
23       "id": 7,
24       "score": 200,
25       "endTime": "2020-02-25T14:45:00.000+0000",
26       "user": {
27         "id": 1,
28         "name": "eray",
29         "password": "a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3"
30       }
31     }
32   ]

```

2 - Score Operations

Path of the all user operations has `http://SERVER_IP_ADDRESS:PORT/api/score` as prefix.

Method	Path	Objective	Comments
GET	/getAll	Returns list of all score records.	Used for testing.

Example Response Body

```
1  [
2    {
3      "id": 1,
4      "score": 251,
5      "endTime": "2020-02-15T14:45:00.000+0000",
6      "user": {
7        "id": 1,
8        "name": "eray",
9        "password": "a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3"
10     }
11   },
12   {
13     "id": 2,
14     "score": 230,
15     "endTime": "2020-02-16T14:45:00.000+0000",
16     "user": {
17       "id": 2,
18       "name": "zumrud",
19       "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
20     }
21   },
22   {
23     "id": 3,
24     "score": 220,
25     "endTime": "2020-02-20T14:45:00.000+0000",
26     "user": {
27       "id": 2,
28       "name": "zumrud",
29       "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
30     }
31   }
32 ]
```


Method	Path	Objective	Comments
POST	/add	Creates a score record	-

Example Request Body

```

1 {
2   "score": "10132",
3   "endTime": "2020-04-10T14:45:00",
4   "user": {
5     "id": "2"
6   }
7 }
```

Example Response Body

```

1 {
2   "id": 74,
3   "score": 10132,
4   "endTime": "2020-04-10T14:45:00.000+0000",
5   "user": {
6     "id": 2,
7     "name": null,
8     "password": null
9   }
10 }
```

Method	Path	Objective	Comments
POST	/update	Updates the score record	Used for testing

Example Request Body

```

1 {
2   "id": 74,
3   "score": "10135",
4   "endTime": "2021-04-10T14:25:00"
5 }

```

Example Response Body

```

1 {
2   "id": 74,
3   "score": 10135,
4   "endTime": "2021-04-10T14:25:00.000+0000",
5   "user": {
6     "id": 2,
7     "name": "zumrud",
8     "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
9   }
10 }

```

Method	Path	Objective	Comments
DELETE	/delete	Deletes all score records with given ids.	-

Example Request Body

```
1 ["32","47"]
```

Example Response Body

Method	Path	Objective	Comments
POST	/scoreboard	Returns leaderboard according to the date sent.	It returns highest scores of each user between the interval starting from given date and up to now.

Example Request Body

Datetime as string in format “yyyy-MM-dd’T’HH:mm:ss” . This is the starting date of the leaderboard. We can get leaderboard of last 30 days by giving now-30Days as parameter.

Example Response Body

```

1  [
2    {
3      "id": 64,
4      "score": 23580,
5      "endTime": "2020-04-27T05:52:21.000+0000",
6      "user": {
7        "id": 2,
8        "name": "zumrud",
9        "password": "8d969eef6ecad3c29a3a629280e686cf0c3f5d5a86aff3ca12020c923adc6c92"
10     }
11   },
12   {
13     "id": 62,
14     "score": 12371,
15     "endTime": "2020-04-27T05:36:43.000+0000",
16     "user": {
17       "id": 1,
18       "name": "eray",
19       "password": "a665a45920422f9d417e4867efdc4fb8a04a1f3ffff1fa07e998e86f7f7a27ae3"
20     }
21   },
22   {
23     "id": 61,
24     "score": 4276,
25     "endTime": "2020-04-27T04:36:51.000+0000",
26     "user": {
27       "id": 16,

```