**API Specification Doc**

**(*Fitness club App*)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 29-Oct-2017 | Muhammad Asfar Ali | Initial draft |

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Methods

**1. signup**

Authenticate the user with the system and obtain the auth\_token

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/signup/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST  POST | api\_key  username  password | string  string  string |

**api\_key**

api\_key must be sent with all client requests. The api\_key helps the server to validate the request source.

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "auth\_key": <auth\_key>  }  auth\_key (**string**) - all further API calls must have this key in header |
| 500 | {"error":"Something went wrong. Please try again later."} |

**2. login**

Authenticate the user with the system and obtain the auth\_token

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/login/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST  POST | api\_key  username  password | string  string  string |

**api\_key**

api\_key must be sent with all client requests. The api\_key helps the server to validate the request source.

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  "auth\_key": <auth\_key>  }  auth\_key (**string**) - all further API calls must have this key in header |
| 403 | {"error":"API key is missing."} |
| 401 | {"error":"Incorrect username or password."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

**3. get all fitness club**

Get the details of all fitness club

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/fitnessclub/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  version | string  number |

**auth\_key**

The auth\_key that was given in response to /api/login

**version**

The current version of internal recipe database. Each time when updates are pulled from the server through the web service, the internal database version is incremented.

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the list of fitness club (array)**  **as well as the updated fitness club in database. Each item in the fitness clubs array has the following structure.** |
| 404 | {"error":"no fitness club in database."} |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

**4. get client data**

Get more information on a particular recipe

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/client/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD | auth\_key | string |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Response will be an object containing the list of clients (array)**  **as well as the updated clients in database. Each item in the clients array has the following structure.** |
| 404 | {"error":"data not found."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

**5. get clients own data**

Client get its own data(fees submission, diet info)

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/clientown/ |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| HEAD  POST | auth\_key  version | string  number |

**version**

The current version of internal database. Each time when updates are pulled from the API, the internal database version increases.

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **An array containing the details of client own data is given**  Example response:-  {"deletions":”entered successfully"} |
| 404 | {"error":"Invalid id data not found."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

Glossary

**Conventions**

* **Client** - Client application.
* **Status** - HTTP status code of response.
* All the possible responses are listed under ‘Responses’ for each method. Only one of them is issued per request server.
* All response are in JSON format.
* All request parameters are mandatory unless explicitly marked as [optional]
* The type of values accepted for a *request* parameter are shown the the values column like this [**10**|<any number>] .The | symbol means *OR*. If the parameter is [optional], the default value is shown in blue bold text, as **10** is written in [**10**|<any number>].

**Status Codes**

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client’s part

5XX - Error occurred in server’s part

|  |  |
| --- | --- |
| **Status Code** | **Description** |
| 200 | OK |
| 201 | Created |
| 202 | Accepted (Request accepted, and queued for execution) |
| 400 | Bad request |
| 401 | Authentication failure |
| 403 | Forbidden |
| 404 | Resource not found |
| 405 | Method Not Allowed |
| 409 | Conflict |
| 412 | Precondition Failed |
| 413 | Request Entity Too Large |
| 500 | Internal Server Error |
| 501 | Not Implemented |
| 503 | Service Unavailable |