**API Specification Doc**

**(*Blood Bank App*)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 29-Oct-2017 | Mohammad Khalid | Initial draft |

## 

## 

## 

Index

[NOTE: Please don’t request edit access to this demo document. Instead, click here to make a copy of this template for your use. Thank you!](#_Toc497591404)

[1. signup](#_Toc497591405)

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[2. login](#_Toc497591405)

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[3. add](#_Toc497591405) blood bank

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[4.](#_Toc497591405)get all blood bank

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[5.](#_Toc497591405) delete bloodBank

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[6](#_Toc497591405) add donors

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[7](#_Toc497591405) donors data

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[8](#_Toc497591405) delete donor

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[9](#_Toc497591405) add admin

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[10](#_Toc497591405) admins

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[11](#_Toc497591405) delete admin

[Request](#_Toc497591406)

[Response](#_Toc497591407)

[Conventions](#_Toc497591417)

[Status Codes](#_Toc497591418)

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 | You have successfully signed up. |
| 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 | You have successfully logged in. |
| 403 | {"error":"API key is missing."} |
| 401 | {"error":"Incorrect username or password."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 3. add blood banks

Add blood bank

## Request

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

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

**auth\_key**

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

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Blood bank has been saved successfully** |
| 404 | {"error":"no blood banks in database."} |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 4. get all blood banks

Get the details of all blood banks

## Request

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

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

**auth\_key**

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

## Response

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

## 5. delete blood bank

Delete the specified blood bank

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api//deleteBloodBank/:\_bId |

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

**auth\_key**

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

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Blood bank deleted successfully** |
| 404 | {"error":"no blood banks in database."} |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 6. add donor

Get the details of all blood banks

## Request

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

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

**auth\_key**

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

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Donors added successfully** |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 7. get donor data

Get more information on a particular recipe

## Request

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

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

## Response

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

## 8. delete donor

Delete the specified donor

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/deleteDonor/:\_dId |

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

**auth\_key**

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

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Donor has been deleted succesfully** |
| 404 | {"error":"no donor in database."} |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 9. add admin

Add admin

## Request

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

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

**auth\_key**

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

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Admin added successfully** |
| 401 | {"error":"Invalid API key."} |
| 500 | {"error":"Something went wrong. Please try again later."} |

## 10. get admin data

Get more information on a particular recipe

## Request

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

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

## Response

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

## 11. delete admin

Delete the specified admin

## Request

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/deleteAdmin/:\_aId |

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

**auth\_key**

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

## Response

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | **Donor has been deleted succesfully** |
| 404 | {"error":"no donor in database."} |
| 401 | {"error":"Invalid API key."} |
| 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 |