

LILLYDOO

Phone Book API Project (Front-End Developer Guide)

This is a Front-End oriented documentation of phone-book-api project. This document shows how a frontend developer can use the API and send the requests in order to make the application functional.

For installation and deployment of API, please follow the instructions offered in Github repository at <https://github.com/msh-shf/phone-book-api>

Note: You can use `/documentation/lillydoo.postman_collection.json` file to import requests into Postman Application.

The API offers the following routes that are going to be explained in detail:

Method	Route	Description
POST	/login	Login application user to get JWT token and call contact API requests by sending token in request header
GET	/contact	List contacts with features for search names and pagination with query params (?name=&page=1&size=10)
POST	/contact	Create a new contact
PUT	/contact/{id}	Update the information of a contact with a given id
GET	/contact/{id}	Show the information of a contact with a given id
DELETE	/contact/{id}	Delete a contact with a given id
POST	/upload/image	Upload contact image

Response Format Standard:

success:

```
{  
  "status": "success",  
  "data": {...},  
  "message": null  
}
```

error:

```
{
  "status": "error",
  "data": null,
  "message": "error message..."
}
```

Detail of Routes:

POST	/login	login application user and get JWT token
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Description:

This application uses JWT token for authentication users and control API routes access. So Front-End users, first have to login and get access token, then send this access token along with request header parameters with the format of **Authorization: Bearer token** so that they can access contact API routes.

Tip1:

For all the next requests, access token should be sent in request header.

Tip2:

use **admin** for both username and password to login and get access token.

Url:

<http://localhost:8000/login>

Request Body:

```
{
  "username": "admin",
  "password": "admin"
}
```

JQuery Code Snippet:

```
var settings = {
  "url": "http://localhost:8000/login",
  "headers": {
    "Content-Type": "application/json"
  },
  "data": JSON.stringify({
    "username": "admin",
    "password": "admin"
  })
}
```

```

    }),
};

$.ajax(settings).done(function (response) {
    console.log(response);
});

```

Response Sample:

```

status code: 401
{
    "code": 401,
    "message": "Invalid credentials."
}

```

```

status code: 200
{
    "token": "eyJ0eXAiOiJKV1QiLCJhbG...",
}

```

GET	/contact?name=&page=1&size=10	get a list of contacts
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Description:

This is a GET request to fetch a list of contacts based on search `name` (query param) and pagination, the `name` param is going to compare against `first_name` and `last_name` of contacts. If the `name` param is empty, the it will be ignored. Finally, the results will be paginated.

Url:

<http://localhost:8000/contact?name=sometext&page=1&size=10>

JQuery Code Snippet:

```

var settings = {
    "url": "http://localhost:8000/contact?name=&page=1&size=2",
    "method": "GET",
    "headers": {
        "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUz..."
    },
};

$.ajax(settings).done(function (response) {
    console.log(response);
});

```

```
});
```

Response Sample:

status code: 200

```
{
  "status": "success",
  "data": {
    "data": [
      {
        "id": 1,
        "first_name": "Sandy",
        "last_name": "Carter",
        "phone": "(118)735-9287x4347",
        "email": "yschroeder@hotmail.com",
        "birthday": "1995-07-31",
        "address": "5740 Raynor Village\nJacobson, IL 55594-3458",
        "picture": "http://lorempixel.com/300/300/people/?96046"
      },
      {
        "id": 2,
        "first_name": "Clifford",
        "last_name": "Carroll",
        "phone": "512.058.4362",
        "email": "little.toy@yahoo.com",
        "birthday": "1988-09-20",
        "address": "6919 Sandra Spurs Suite 808, VA 46219-9892",
        "picture": "http://lorempixel.com/300/300/people/?96906"
      }
    ],
    "meta": {
      "total": 5,
      "page": 3,
      "size": 2,
      "next": null,
      "last": 3
    }
  },
  "message": null
}
```

POST

/contact

create a new contact

Description:

This is a POST request with request body to create a new contact.

Url:

<http://localhost:8000/contact>

Request Body:

```
{
  "first_name": "Masih",
  "last_name": "Shafiee",
  "phone": "+989367237614",
  "email": "masih118shafiee@gmail.com",
  "birthday": "1989-10-06",
  "address": "Mashhad, Iran",
  "picture": ""
}
```

Request Header:

Content-Type=application/json

JQuery Code Snippet:

```
var settings = {
  "url": "http://localhost:8000/contact",
  "method": "POST",
  "headers": {
    "Content-Type": "application/json",
    "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUz..."
  },
  "data": JSON.stringify({
    "first_name": "Masih",
    "last_name": "Shafiee",
    "phone": "+989367237614",
    "email": "masih118shafiee@gmail.com",
    "birthday": "1989-10-06",
    "address": "Mashhad, Iran",
    "picture": ""
  })
};

$.ajax(settings).done(function (response) {
  console.log(response);
});
```

Response Sample:

status code: 404

```
{
  "status": "error",
  "data": null,
}
```

```

    "message": "The requested resource not found, resource id: 26"
  }
}

status code: 201
{
  "status": "success",
  "data": {
    "id": 6,
    "first_name": "Masih",
    "last_name": "Shafiee",
    "phone": "+989367237614",
    "email": "masih118shafiee@gmail.com",
    "birthday": "1989-10-06",
    "address": "Mashhad, Iran",
    "picture": ""
  },
  "message": null
}

```

GET	/contact/{id}	show the detail of a contact
-----	---------------	------------------------------

Description:

This is a GET request to fetch the detail of a contact given by contact id.

Url:

<http://localhost:8000/contact/6>

JQuery Code Snippet:

```

var settings = {
  "url": "http://localhost:8000/contact/6",
  "method": "GET",
  "headers": {
    "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUz..."
  },
};

$.ajax(settings).done(function (response) {
  console.log(response);
});

```

Response Sample:

status code: 404

```
{
  "status": "error",
  "data": null,
  "message": "The requested resource not found, resource id: 26"
}
```

status code: 200

```
{
  "status": "success",
  "data": {
    "id": 6,
    "first_name": "Masih",
    "last_name": "Shafiee",
    "phone": "+989367237614",
    "email": "masih118shafiee@gmail.com",
    "birthday": "1989-10-06",
    "address": "Mashhad, Iran",
    "picture": ""
  },
  "message": null
}
```

PUT

/contact/{id}

update the information of a contact

Description:

This is a PUT request with request body to update the information of a contact given by contact id.

Url:

<http://localhost:8000/contact/6>

Request Body:

```
{
  "first_name": "Masih",
  "last_name": "Shafiee",
  "phone": "+989367237614",
  "email": "masih118shafiee@gmail.com",
  "birthday": "1989-10-06",
  "address": "Mashhad, Iran",
  "picture": ""
}
```

Request Header:

Content-Type=application/json

JQuery Code Snippet:

```
var settings = {
    "url": "http://localhost:8000/contact/6",
    "method": "PUT",
    "headers": {
        "Content-Type": "application/json",
        "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUz..."
    },
    "data": JSON.stringify({
        "first_name": "Masih",
        "last_name": "Shafiee",
        "phone": "+989367237614",
        "email": "masih118shafiee@gmail.com",
        "birthday": "1989-10-06",
        "address": "Mashhad, Iran",
        "picture": ""
    })
};

$.ajax(settings).done(function (response) {
    console.log(response);
});
```

Response Sample:

status code: 404

```
{
    "status": "error",
    "data": null,
    "message": "The requested resource not found, resource id: 26"
}
```

status code: 200

```
{
    "status": "success",
    "data": {
        "id": 6,
        "first_name": "Masih",
        "last_name": "Shafiee",
        "phone": "+989367237614",
        "email": "masih118shafiee@gmail.com",
        "birthday": "1989-10-06",
        "address": "Mashhad, Iran",
        "picture": ""
    }
}
```



```
    },  
    "message": null  
}
```

DELETE

/contact/{id}

delete a contact

Description:

This is a DELETE request to delete a contact given by contact id.

Url:

<http://localhost:8000/contact/6>

JQuery Code Snippet:

```
var settings = {  
    "url": "http://localhost:8000/contact/6",  
    "method": "DELETE",  
    "headers": {  
        "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUz..."  
    },  
};  
  
$.ajax(settings).done(function (response) {  
    console.log(response);  
});
```

Response Sample:

status code: 404

```
{  
    "status": "error",  
    "data": null,  
    "message": "The requested resource not found, resource id: 26"  
}
```

status code: 204

```
{  
    "status": "success",  
    "data": 6,  
    "message": null  
}
```

POST**/upload/image**

delete a contact

Description:

This is a POST request to upload a user image. In Front-End code, if the user wants to upload an image for a contact, first a request should be sent to this route to upload the image and get image URL, then to create a contact the image URL should be sent among other contact parameters to the route of create contact (as mentioned above)

The images URLs are relative urls based on **public** directory, so they are accessible from `http://localhost:8000/IMAGE_URL`

Url:

<http://localhost:8000/upload/image>

JQuery Code Snippet:

```
var form = new FormData();
form.append("image", fileInput.files[0], "some-image.jpg");

var settings = {
  "url": "http://localhost:8000/upload/image",
  "method": "POST",
  "headers": {
    "Authorization": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJSUz..."
  },
  "mimeType": "multipart/form-data",
  "contentType": false,
  "data": form
};

$.ajax(settings).done(function (response) {
  console.log(response);
});
```

Response Sample:**status code: 400**

```
{
  "status": "error",
  "data": null,
  "message": "An error occurred!"
}
```

status code: 200

```
{
  "status": "success",
```

```
"data": "images/4-631f6bf340ed6.jpg",  
"message": null  
}
```

Masih
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