Easy Contact API Specifications

　　This API is based on libhv in C++ and will be initialized as the backend database starts, and serves as an interface between node.js and database. The API creates an HTTP server as a RESTful API.

　　Current state: Working

# Login

/login/:userName/:password

## POST

create (and encrypt?) login information

### Parameters

All two parameters (userName, password) should be provided.

### Return Values

200 Succeed login

400 Bad Request

505 Invalid information

# Keys

/keys/:contactName

## GET

Get key’s information based on name

### Return Body

application/json: { name: “string”, email: “string”, [tag: “string”, …] }

### Return Values

200 OK

400 Bad Request

404 Not Found

## POST/PUT

Create/Modify a key.

### Parameters

All two parameters (contactName, email) should be provided.

### Return Values

200 OK (PUT)

201 Created (POST)

400 Bad Request

404 Not Found: The key cannot be updated since it does not exist. (PUT)

406 Not Acceptable: Key is not created.

410 Conflict: This will be returned when the key is conflicted with name.

500 Internal Error: The API cannot perform remove and add contact. (PUT)

## DELETE

Delete a key.

### Parameters

Only contactName

### Return Values

200 OK

400 Bad Request: empty parameter

404 Not Found: no specific contact

# Tags

/tags/:tagName

## GET

Get tag’s information based on tagName

### Return Body

application/json: [{name: “string”, email: “string”}, …]

### Return Values

200 OK

400 Bad Request

404 Not Found

## POST

Create a tag.

### Parameters

only tagName should be provided

### Return Values

200 Created

400 Bad Request

406 Not Acceptable: Tag is not created.

## DELETE

Delete a tag.

### Parameters

Only tagName

### Return Values

200 OK

400 Bad Request: empty parameter

404 Not Found: no specific tag

# Books

books/:contactName/:tagName

## POST/PUT

Create a tag for the contactName.

### Parameters

Both contactName and tagName must be provided.

### Return Values

200 tag contactName with existing tag

201 created a new tag and tag contactName with it

400 Bad Request

404 Not Found: no specific contactName

406 Not Acceptable: Tag is not created.

500 Internal Error: The API cannot perform remove and add tag. (PUT)

## DELETE

Delete a tag for given contactName.

### Parameters

Both contactName and tagName

### Return Values

200 OK

400 Bad Request: empty parameter

404 Not Found: no specific contactName

405 Not Found: no specific tagName for given contactName