REST API Assignment Solution
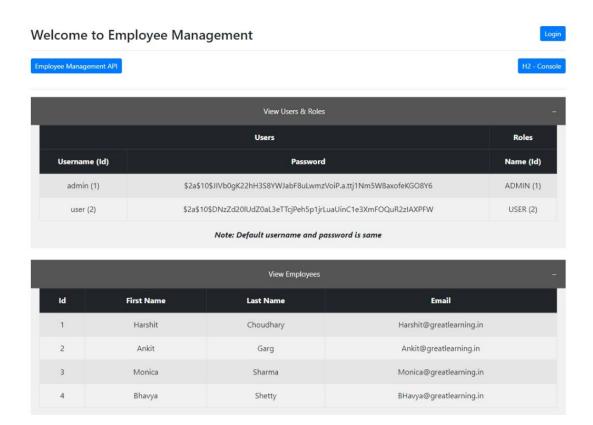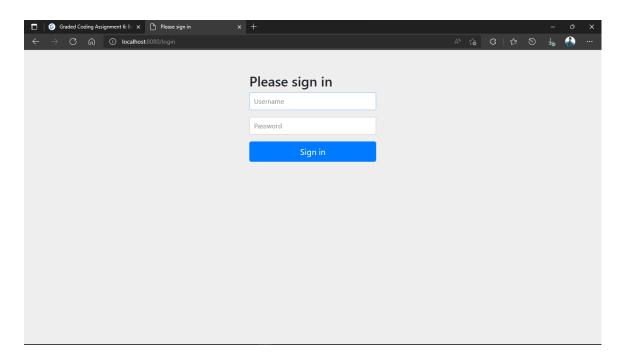
1. **Home Page -** **http://localhost:8080/**

2. Login Page - http://localhost:8080/login/

Admin Login

User Login

3. Employee Management API - http://localhost:8080/swagger-ui.html

4. Admin Operations

Delete

List

swagger   Select a spec   EmployeeManagement-API

EmployeeManagement API 1.0

[Base URL: localhost:8080/]
http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service
EmployeeManagement API - Website
Send email to EmployeeManagement API
EmployeeManagement License

employee-controller Employee API   ⌄

`DELETE`   /employees/deleteById   deleteById

`GET`   /employees/findAll   findAll

Parameters   Cancel

No parameters

| Execute | Clear |

Responses   Response content type   `*/*`

Curl

```
curl -X GET "http://localhost:8080/employees/findAll" -H "accept: */*"
```

Request URL

```
http://localhost:8080/employees/findAll
```

Server response

Code	Details
200	Response body

```
[
  {
    "id": 2,
    "firstName": "Ankit",
    "lastName": "Garg",
    "email": "Ankit@greatlearning.in"
  },
  {
    "id": 3,
    "firstName": "Monica",
    "lastName": "Sharma",
    "email": "Monica@greatlearning.in"
  },
  {
    "id": 4,
    "firstName": "Bhavya",
    "lastName": "Shetty",
    "email": "BHavya@greatlearning.in"
  }
]
```
Download

Response headers

```
cache-control: no-cache, no-store, max-age=0, must-revalidate
connection: keep-alive
content-type: application/json
date: Fri, 31 Dec 2021 16:57:27 GMT
expires: 0
keep-alive: timeout=60
pragma: no-cache
transfer-encoding: chunked
vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers
x-content-type-options: nosniff
x-frame-options: DENY
x-xss-protection: 1; mode=block
```

Responses

Code	Description
200	OK

Example Value | Model

```
[
  {
    "email": "string",
    "firstName": "string",
    "id": 0,
    "lastName": "string"
  }
]
```

401	Unauthorized
403	Forbidden
404	Not Found

`GET`   /employees/findByFirstNameContainsAllIgnoreCase   findByFirstNameContainsAllIgnoreCase

`GET`   /employees/findById   findById

`POST`   /employees/save   save

`GET`   /employees/sortByFirstNameDirection   sortByFirstNameDirection

`PUT`   /employees/updateById   updateById

role-controller Role API   ›

user-controller User API   ›

Models   ›

Find by First Name

Select a spec EmployeeManagement-API

EmployeeManagement API

[Base URL: localhost:8080/]
http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service
EmployeeManagement API - Website
Send email to EmployeeManagement API
EmployeeManagement License

employee-controller Employee API   ⌄

DELETE	/employees/deleteById deleteById

GET	/employees/findAll findAll

GET	/employees/findByFirstNameContainsAllIgnoreCase findByFirstNameContainsAllIgnoreCase

Parameters   Cancel

Name	Description
firstName * required string *(query)*	firstName `ankit`

Execute	Clear

Responses

Response content type `*/*`

Curl

```
curl -X GET "http://localhost:8080/employees/findByFirstNameContainsAllIgnoreCase?firstName=ankit" -H "accept: */*"
```

Request URL

```
http://localhost:8080/employees/findByFirstNameContainsAllIgnoreCase?firstName=ankit
```

Server response

Code	Details

200	**Response body**
	``[
	  {
	    "id": 2,
	    "firstName": "Ankit",
	    "lastName": "Garg",
	    "email": "Ankit@greatlearning.in"
	  }
	]``` Download
	
	Response headers
	``cache-control: no-cache, no-store, max-age=0, must-revalidate
	connection: keep-alive
	content-type: application/json
	date: Fri, 31 Dec 2021 16:59:56 GMT
	expires: 0
	keep-alive: timeout=60
	pragma: no-cache
	transfer-encoding: chunked
	vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers
	x-content-type-options: nosniff
	x-frame-options: DENY
	x-xss-protection: 1; mode=block```

Responses

Code	Description

200	*OK*
	
	Example Value
		Model
		``[
		  {
		    "email": "string",
		    "firstName": "string",
		    "id": 0,
		    "lastName": "string"
		  }
		]```

401	*Unauthorized*
403	*Forbidden*
404	*Not Found*

GET	/employees/findById findById

POST	/employees/save save

GET	/employees/sortByFirstNameDirection sortByFirstNameDirection

PUT	/employees/updateById updateById

role-controller Role API   ›

user-controller User API   ›

Models   ›

Find by Id

EmployeeManagement API 1.0

[Base URL: localhost:8080/]

http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service

EmployeeManagement API - Website

Send email to EmployeeManagement API

EmployeeManagement License

employee-controller Employee API

DELETE	/employees/deleteById deleteById
GET	/employees/findAll findAll
GET	/employees/findByFirstNameContainsAllIgnoreCase findByFirstNameContainsAllIgnoreCase
GET	/employees/findById findById

Parameters   Cancel

Name	Description
employeeId * required integer($int32) (query)	employeeId 4

| Execute | Clear |

Responses   Response content type */*

Curl

```
curl -X GET "http://localhost:8080/employees/findById?employeeId=4" -H "accept: */*"
```

Request URL

```
http://localhost:8080/employees/findById?employeeId=4
```

Server response

Code	Details

200	**Response body**
	```Employee(id=4, firstName=Bhavya, lastName=Shetty, email=BHavya@greatlearning.in)``` Download
	
	Response headers
	```cache-control: no-cache, no-store, max-age=0, must-revalidate```
	```connection: keep-alive```
	```content-length: 80```
	```content-type: text/plain;charset=UTF-8```
	```date: Fri, 31 Dec 2021 17:01:09 GMT```
	```expires: 0```
	```keep-alive: timeout=60```
	```pragma: no-cache```
	```vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers```
	```x-content-type-options: nosniff```
	```x-frame-options: DENY```
	```x-xss-protection: 1; mode-block```

Responses

Code	Description
200	OK Example Value | Model ```"string"```
401	Unauthorized
403	Forbidden
404	Not Found

POST	/employees/save save
GET	/employees/sortByFirstNameDirection sortByFirstNameDirection
PUT	/employees/updateById updateById

role-controller Role API   >

user-controller User API   >

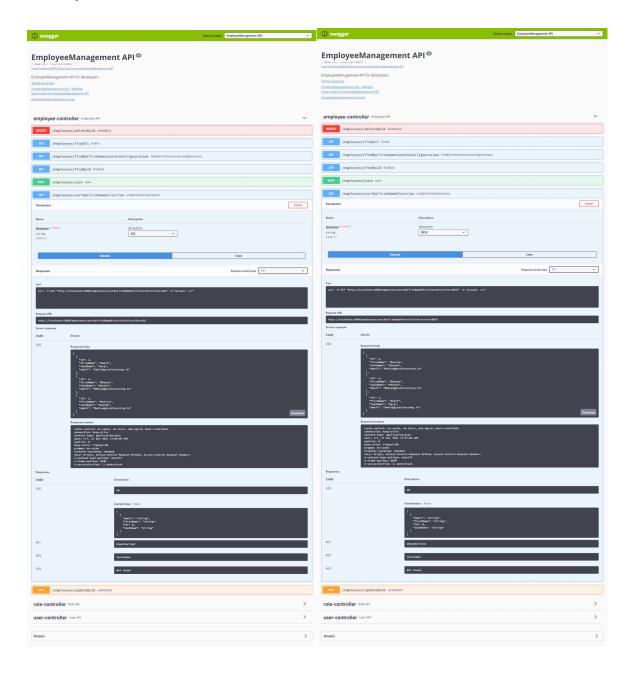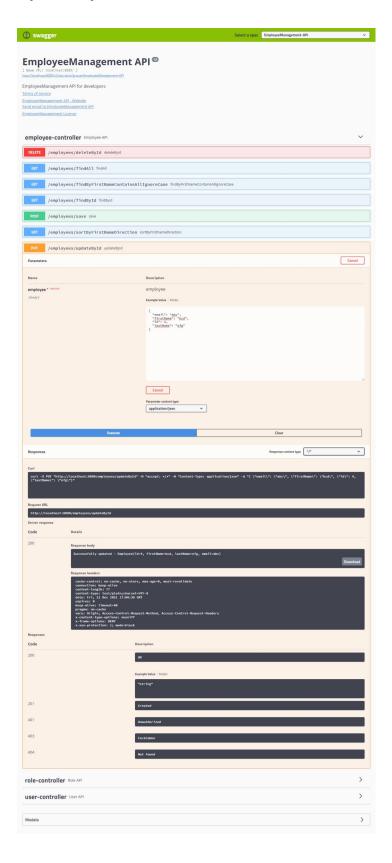**Models**   >

Sort by First Name & Direction

Update by id

5. User Operations

Delete

List

swagger   Select a spec   EmployeeManagement-API

EmployeeManagement API

[Base URL: localhost:8080/]
http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service
EmployeeManagement API - Website
Send email to EmployeeManagement API
EmployeeManagement License

employee-controller Employee API

DELETE /employees/deleteById deleteById

GET /employees/findAll findAll

Parameters   Cancel

No parameters

Execute   Clear

Responses   Response content type   */*

Curl

```
curl -X GET "http://localhost:8080/employees/findAll" -H "accept: */*"
```

Request URL

```
http://localhost:8080/employees/findAll
```

Server response

Code	Details
200	Response body

```
[
  {
    "id": 1,
    "firstName": "Harshit",
    "lastName": "Choudhary",
    "email": "Harshit@greatlearning.in"
  },
  {
    "id": 2,
    "firstName": "Ankit",
    "lastName": "Garg",
    "email": "Ankit@greatlearning.in"
  },
  {
    "id": 3,
    "firstName": "Monica",
    "lastName": "Sharma",
    "email": "Monica@greatlearning.in"
  },
  {
    "id": 4,
    "firstName": "Bhavya",
    "lastName": "Shetty",
    "email": "Bhavya@greatlearning.in"
  }
]
```

Download

Response headers

```
cache-control: no-cache, no-store, max-age=0, must-revalidate
connection: keep-alive
content-type: application/json
date: Sat, 01 Jan 2022 01:53:07 GMT
expires: 0
keep-alive: timeout=60
pragma: no-cache
transfer-encoding: chunked
vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers
x-content-type-options: nosniff
x-frame-options: DENY
x-xss-protection: 1; mode=block
```

Responses

Code	Description
200	OK

Example Value | Model

```
[
  {
    "email": "string",
    "firstName": "string",
    "id": 0,
    "lastName": "string"
  }
]
```

401	Unauthorized
403	Forbidden
404	Not Found

GET /employees/findByFirstNameContainsAllIgnoreCase findByFirstNameContainsAllIgnoreCase

GET /employees/findById findById

POST /employees/save save

GET /employees/sortByFirstNameDirection sortByFirstNameDirection

PUT /employees/updateById updateById

role-controller Role API

user-controller User API

Models

Find by First Name

EmployeeManagement API 1.0

[Base URL: localhost:8080/]

http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service
EmployeeManagement API - Website
Send email to EmployeeManagement API
EmployeeManagement License

employee-controller Employee API ⌄

DELETE	/employees/deleteById deleteById
GET	/employees/findAll findAll
GET	/employees/findByFirstNameContainsAllIgnoreCase findByFirstNameContainsAllIgnoreCase

Parameters   Cancel

Name	Description
firstName * required string (query)	firstName `harshit`

Execute   Clear

Responses   Response content type `*/*`

Curl

```
curl -X GET "http://localhost:8080/employees/findByFirstNameContainsAllIgnoreCase?firstName=harshit" -H "accept: */*"
```

Request URL

```
http://localhost:8080/employees/findByFirstNameContainsAllIgnoreCase?firstName=harshit
```

Server response

Code	Details

200	**Response body**
	
	```[{ "id": 1, "firstName": "Harshit", "lastName": "Choudhary", "email": "Harshit@greatlearning.in" }]``` Download
	
	Response headers
	
	``cache-control: no-cache, no-store, max-age=0, must-revalidate
	connection: keep-alive
	content-type: application/json
	date: Sat, 01 Jan 2022 01:54:47 GMT
	expires: 0
	keep-alive: timeout=60
	pragma: no-cache
	transfer-encoding: chunked
	vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers
	x-content-type-options: nosniff
	x-frame-options: DENY
	x-xss-protection: 1; mode=block```

Responses

Code	Description
200	OK Example Value | Model ```[{ "email": "string", "firstName": "string", "id": 0, "lastName": "string" }]```
401	Unauthorized
403	Forbidden
404	Not Found

GET	/employees/findById findById
POST	/employees/save save
GET	/employees/sortByFirstNameDirection sortByFirstNameDirection
PUT	/employees/updateById updateById

role-controller Role API   >

user-controller User API   >

Models   >

Find by Id

EmployeeManagement API 1.0

[Base URL: localhost:8080/]

http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service

EmployeeManagement API - Website

Send email to EmployeeManagement API

EmployeeManagement License

employee-controller Employee API

DELETE	/employees/deleteById deleteById
GET	/employees/findAll findAll
GET	/employees/findByFirstNameContainsAllIgnoreCase findByFirstNameContainsAllIgnoreCase
GET	/employees/findById findById

Parameters   Cancel

Name	Description
employeeId * required integer($int32) *(query)*	employeeId `1`

Execute	Clear

Responses   Response content type `*/*`

Curl

```
curl -X GET "http://localhost:8080/employees/findById?employeeId=1" -H "accept: */*"
```

Request URL

```
http://localhost:8080/employees/findById?employeeId=1
```

Server response

Code	Details

200	**Response body**
	`Employee(id=1, firstName=Harshit, lastName=Choudhary, email=Harshit@greatlearning.in)` Download
	
	Response headers
	`cache-control: no-cache, no-store, max-age=0, must-revalidate`
	`connection: keep-alive`
	`content-length: 85`
	`content-type: text/plain;charset=UTF-8`
	`date: Sat, 01 Jan 2022 01:56:26 GMT`
	`expires: 0`
	`keep-alive: timeout=60`
	`pragma: no-cache`
	`vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers`
	`x-content-type-options: nosniff`
	`x-frame-options: DENY`
	`x-xss-protection: 1; mode=block`

Responses

Code	Description
200	*OK* Example Value │ Model `"string"`
401	*Unauthorized*
403	*Forbidden*
404	*Not Found*

POST	/employees/save save
GET	/employees/sortByFirstNameDirection sortByFirstNameDirection
PUT	/employees/updateById updateById

role-controller Role API   >

user-controller User API   >
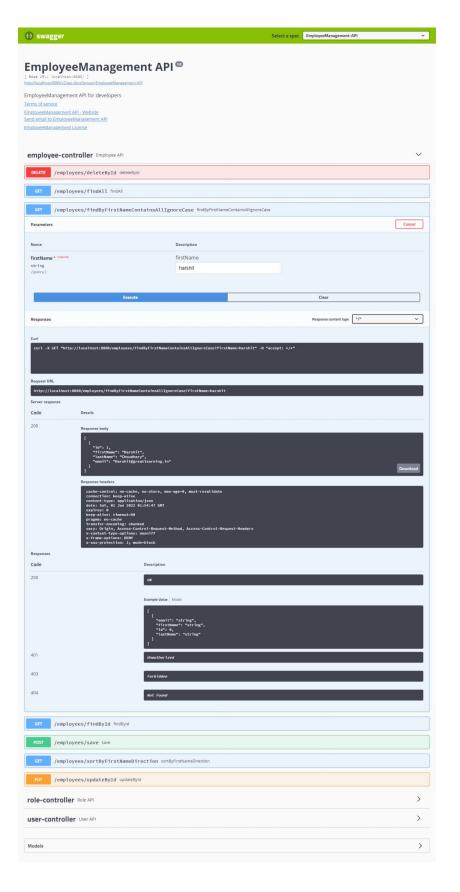
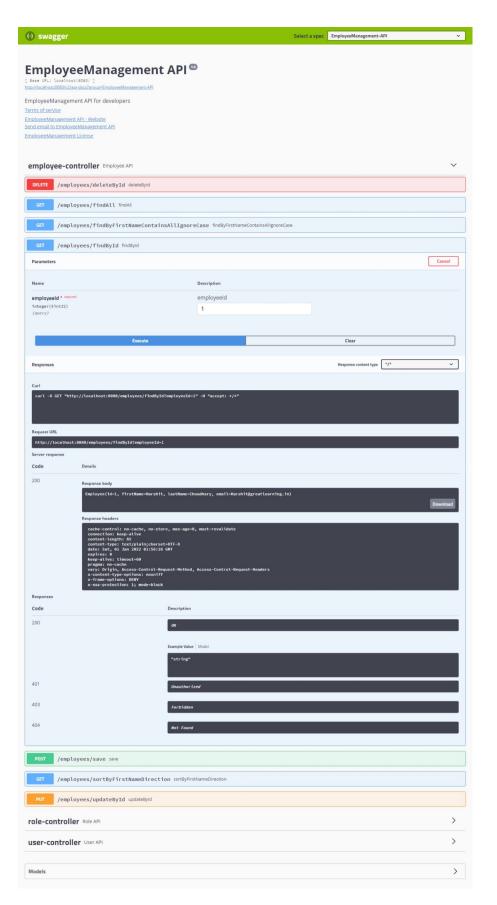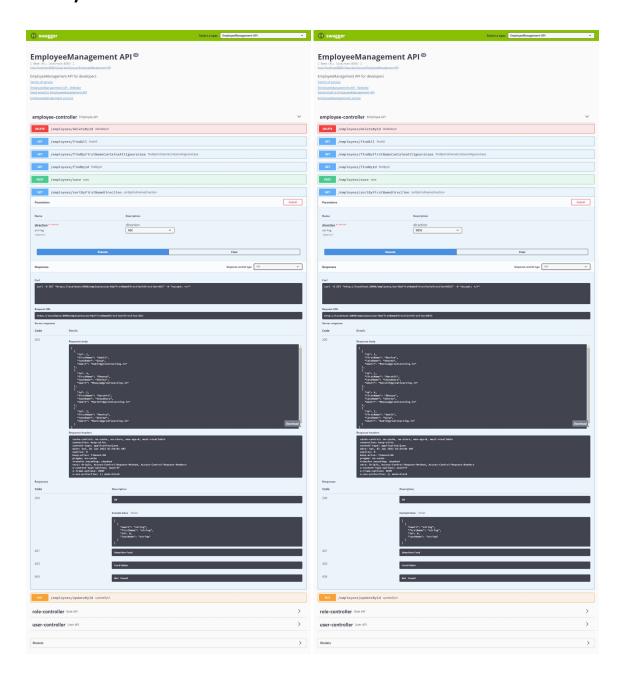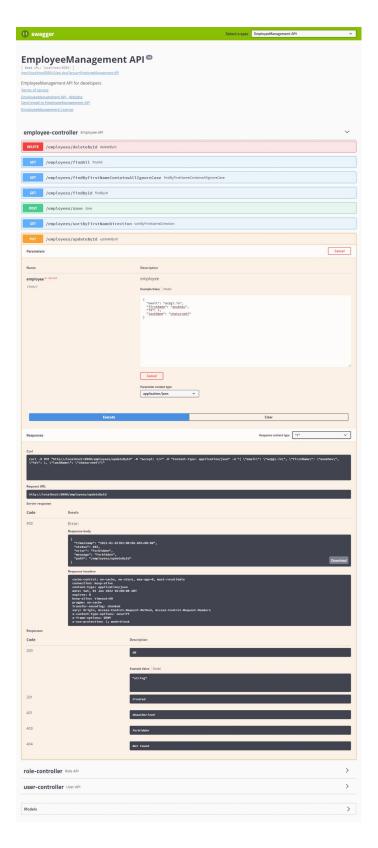Models   >

Sort by First Name & Direction

Update by id

Roles & Users
Role

EmployeeManagement API 1.0

[Base URL: localhost:8080/]

http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service

EmployeeManagement API - Website

Send email to EmployeeManagement API

EmployeeManagement License

employee-controller Employee API

role-controller Role API

DELETE /roles/deleteById deleteById

GET /roles/findAll findAll

GET /roles/findById findById

POST /roles/save save

Parameters   Cancel

Name	Description
name * required string (query)	name SUBUSER

Execute	Clear

Responses   Response content type */*

Curl

```
curl -X POST "http://localhost:8080/roles/save?name=SUBUSER" -H "accept: */*"
```

Request URL

```
http://localhost:8080/roles/save?name=SUBUSER
```

Server response

Code	Details
403	Error:

Response body

```
{
  "timestamp": "2022-01-01T02:01:00.405+00:00",
  "status": 403,
  "error": "Forbidden",
  "message": "Forbidden",
  "path": "/roles/save"
}
```
Download

Response headers

```
cache-control: no-cache, no-store, max-age=0, must-revalidate
connection: keep-alive
content-type: application/json
date: Sat, 01 Jan 2022 02:01:00 GMT
expires: 0
keep-alive: timeout=60
pragma: no-cache
transfer-encoding: chunked
vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers
x-content-type-options: nosniff
x-frame-options: DENY
x-xss-protection: 1; mode=block
```

Responses

Code	Description
200	OK
	Example Value | Model "string"
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

PUT /roles/updateById updateById

user-controller User API

Models

User

EmployeeManagement API ⟨⟩

[Base URL: localhost:8080/]

http://localhost:8080/v2/api-docs?group=EmployeeManagement-API

EmployeeManagement API for developers

Terms of service
EmployeeManagement API - Website
Send email to EmployeeManagement API
EmployeeManagement License

employee-controller Employee API   ⟩

role-controller Role API   ⟩

user-controller User API   ⌄

DELETE	/users/deleteById deleteById
GET	/users/findAll findAll
GET	/users/findById findById
POST	/users/save save

Parameters   [Cancel]

Name	Description
password * *required* string *(query)*	password [anubhav]
userRoles * *required* *(body)*	userRoles Example Value | Model ``` ["ADMIN"] ``` [Cancel] Parameter content type [application/json ⌄]
username * *required* string *(query)*	username [anubhav]

Execute	Clear

Responses   Response content type [*/* ⌄]

Curl

```
curl -X POST "http://localhost:8080/users/save?password=anubhav&username=anubhav" -H "accept: */*" -H "Content-Type: application/json" -d "[ \"ADMIN\"]"
```

Request URL

```
http://localhost:8080/users/save?password=anubhav&username=anubhav
```

Server response

Code	Details

403	Error:
	
	 Response body
	 ``` { "timestamp": "2022-01-01T02:03:18.581+00:00", "status": 403, "error": "Forbidden", "message": "Forbidden", "path": "/users/save" } ``` [Download]
	
	 Response headers
	 ``` cache-control: no-cache, no-store, max-age=0, must-revalidate connection: keep-alive content-type: application/json date: Sat, 01 Jan 2022 02:03:18 GMT expires: 0 keep-alive: timeout=60 pragma: no-cache transfer-encoding: chunked vary: Origin, Access-Control-Request-Method, Access-Control-Request-Headers x-content-type-options: nosniff x-frame-options: DENY x-xss-protection: 1; mode=block ```

Responses

Code	Description
200	OK Example Value | Model ``` "string" ```
201	Created
401	Unauthorized
403	Forbidden
404	Not Found

| PUT | /users/updateById updateById |

Models   ⟩