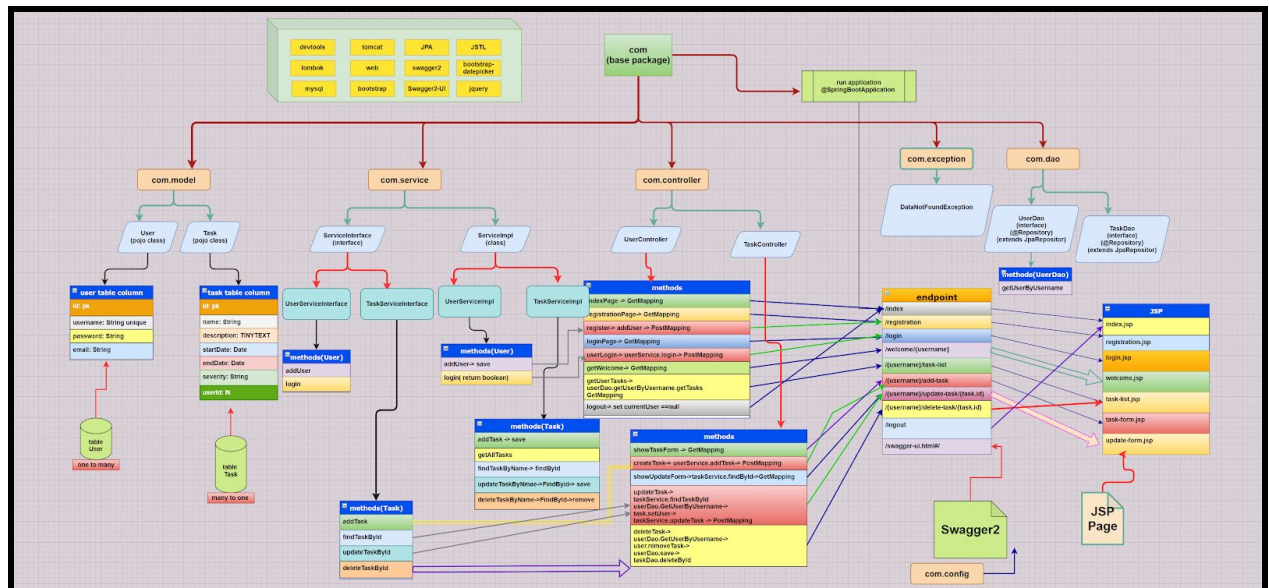


# Task Manager App-Phase 3 End Project

## Flow chart



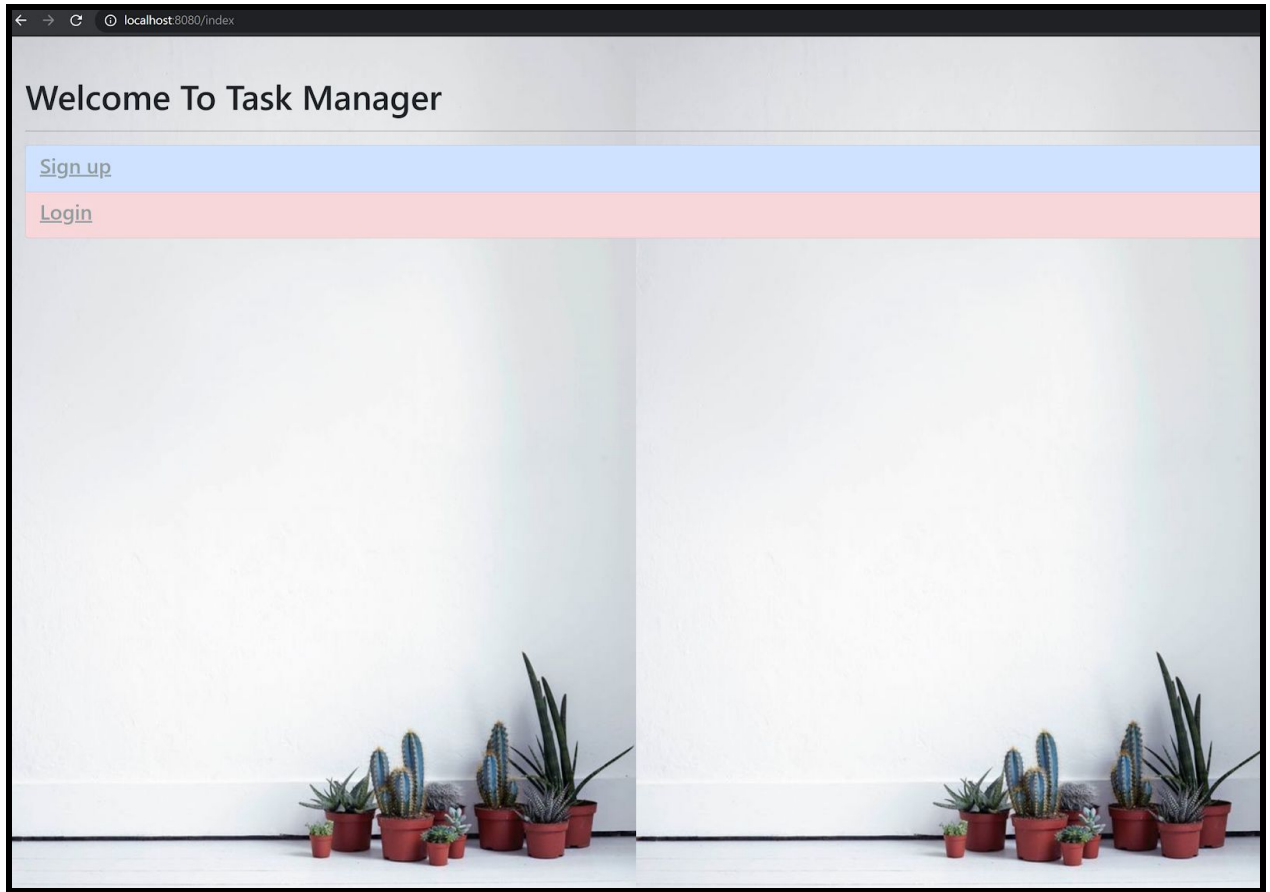
## Steps:

- For the project, because the user has many tasks, so it is many to one relationship on task model, one to many relationship for User model. Two tables will be in the database.
- Both sides have a Dao, controller, service , model to implement business logic.
- Using @ControllerAdvice to create GloablExceptionHandler to handle exceptions.
- Using swagger2 for API document and UI
- Using BootStrp for styling.

## Screenshot for steps:

### Step 1: index page offer user two options:

- As a new user, I can sign up
- As a returning user, I can login with username and password



**Step 2: click Sign up go to /registration, will display a registration form and fill it in, once submit, will go to /login. And database data will persist.**

## Registration

Email address

User Name

Password

[Sign up](#)

localhost:8080/login


## Login

User Name

Password

[Login](#)

[Back](#)



```
mysql> select * from users;
+----+-----+-----+-----+
| id | email                      | password | username          |
+----+-----+-----+-----+
| 1  | SpringbootCoder12021@gmail.com | 123      | SpringbootCoder2021 |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> _
```

### Step 3 login, then be directed to /welcome/{username}

- Check all my tasks
- Check Api Documentation (swagger 2)
- Go back to /index

localhost:8080/login

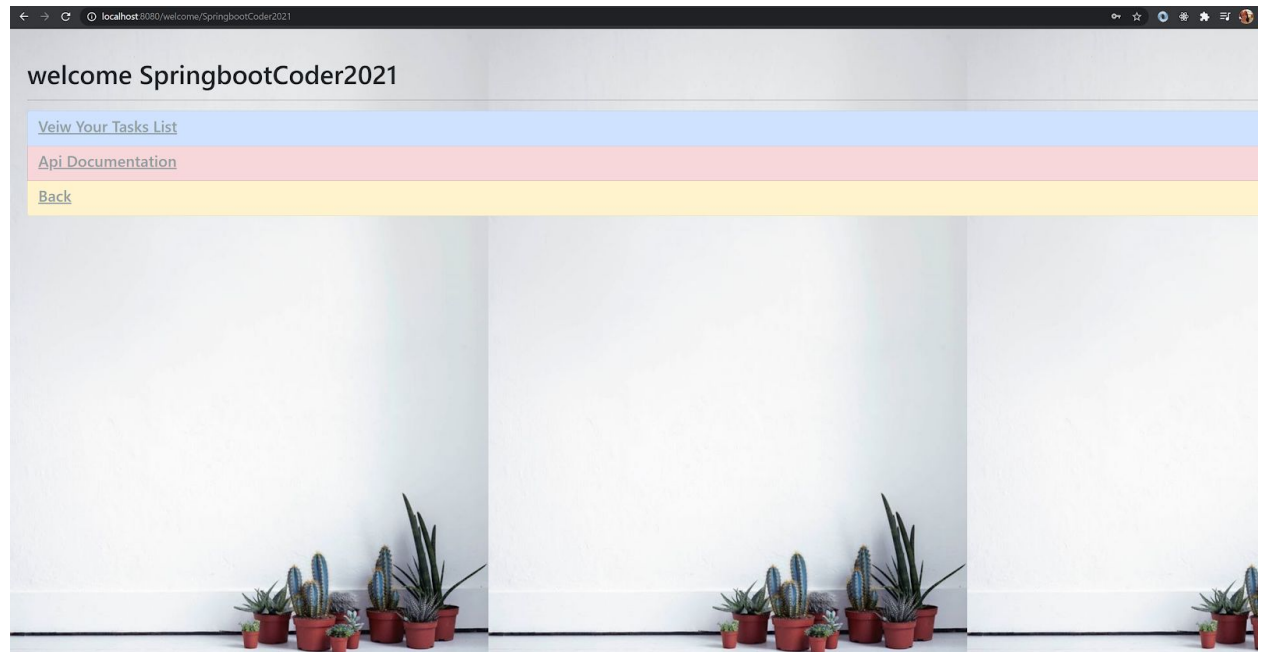
## Login

User Name  
SpringbootCoder2021

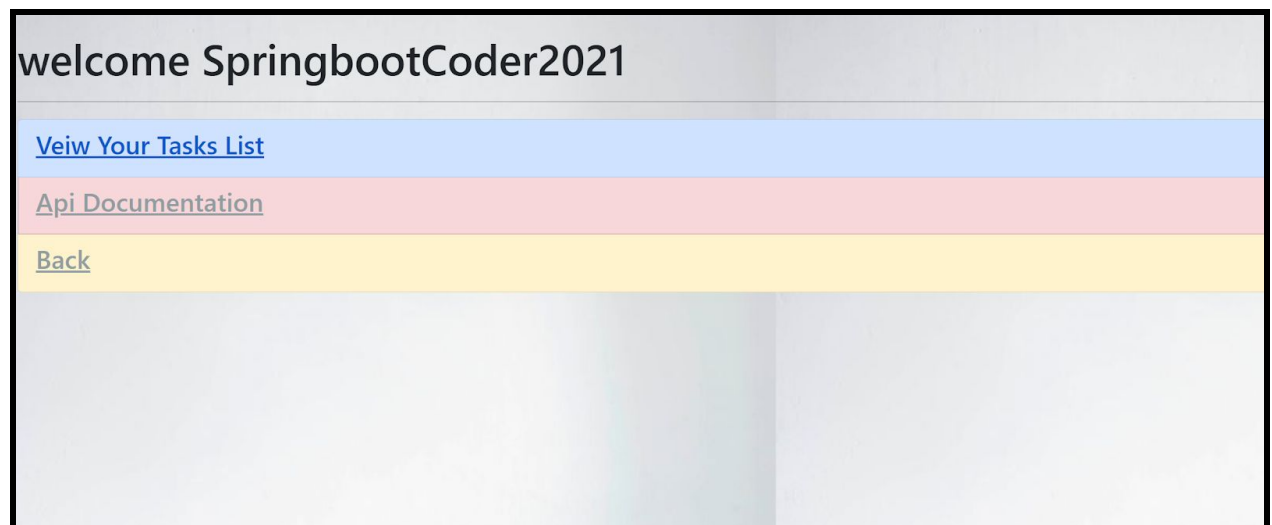
Password  
...

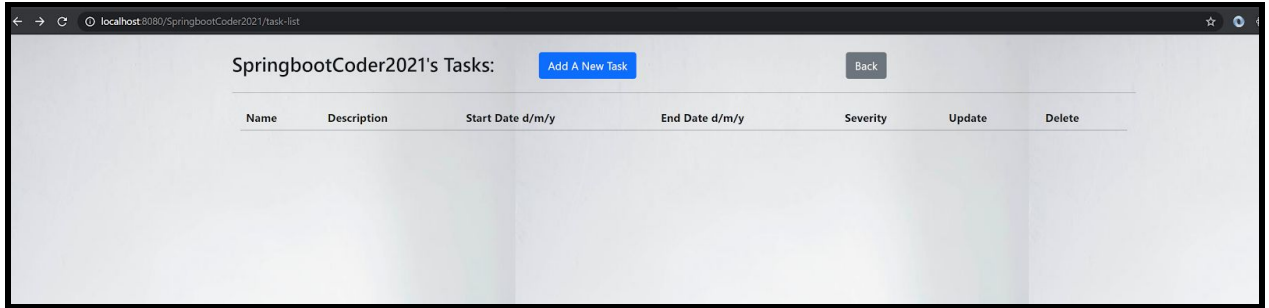
Login

[Back](#)



**Step 4 : Check tasks list, will go to `/username/task-list`, since I am a new user, there is no any task yet, so let's add some tasks.  
Click Add A New Task, go to `/username/add-task`**





**Step 5: fill out the form, name, description, start date , end date( day picker), severity(drop down) , then submit.**

Create A New Task

Name

Description

Start Date

End Date

Severity

[Submit](#) [Back](#)

localhost:8080/SpringbootCoder2021/add-task

## Create A New Task

Name  
Water the plants

Description  
Green Action, save the earth

Start Date  
2021-01-19

End Date

Severity  
High

Submit

Back

January 2021

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## Create A New Task

Name  
Water the plants

Description  
Green Action, save the earth

Start Date  
2021-01-19

End Date  
2021-01-31

Severity  
High

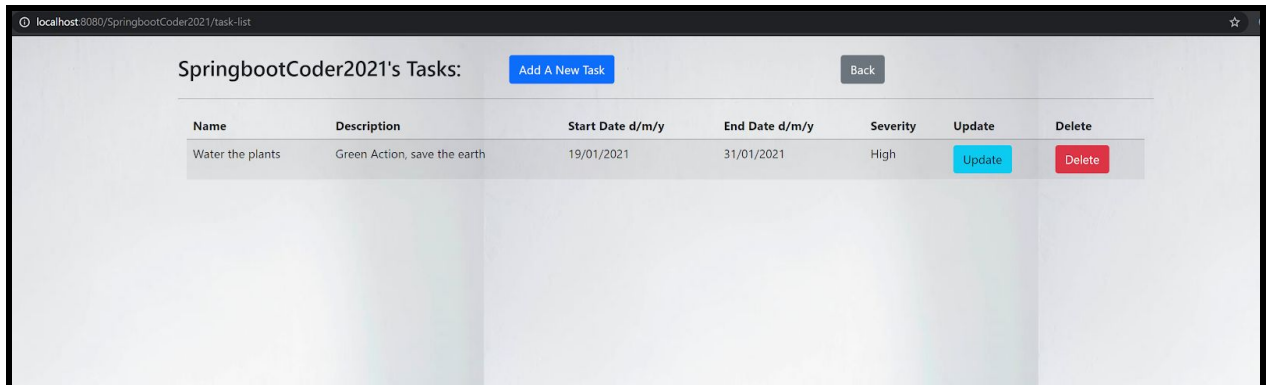
High

Medium

Low

Back

**Step 6: Once submitted, will go back to /{username}/task-list, and the added task will be displaying. Database data persisted.**

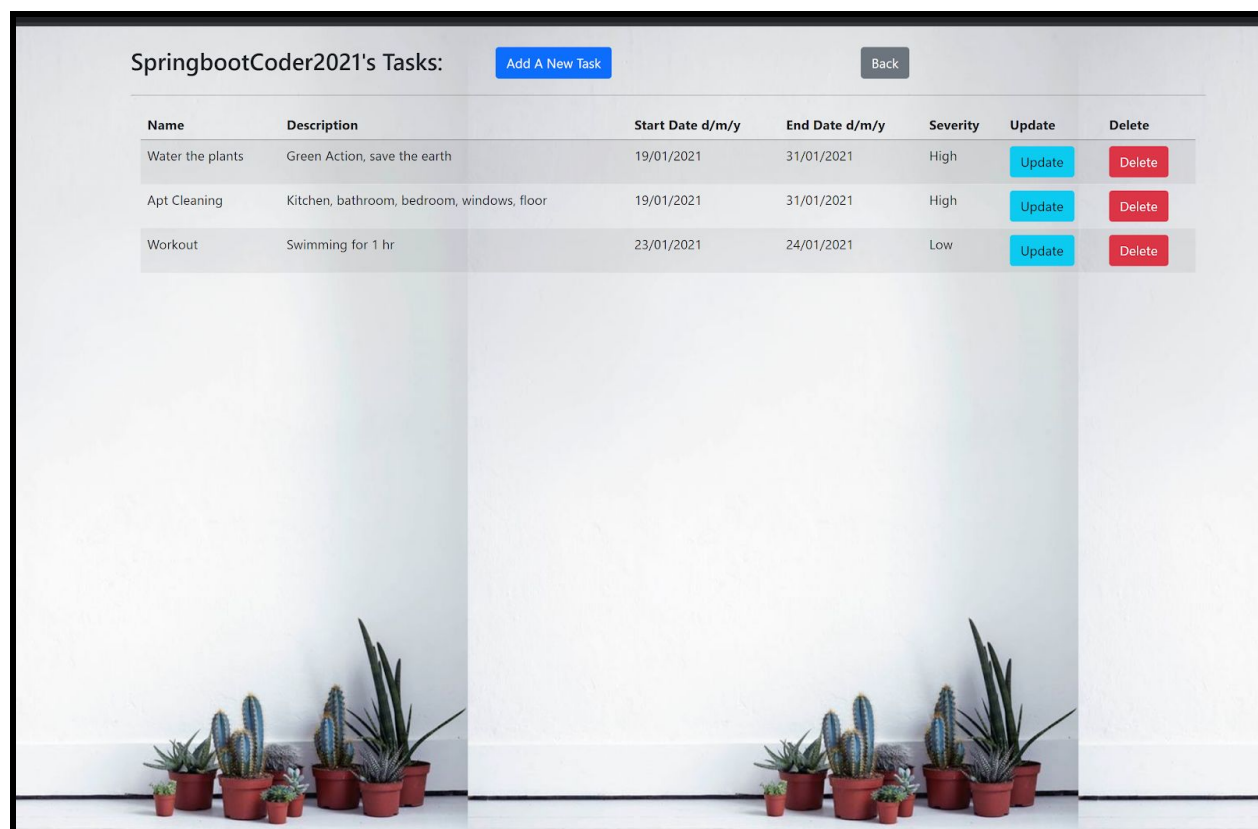


```
mysql> select * from tasks;
+-----+-----+-----+-----+-----+-----+-----+
| id | description          | end_date | name          | severity | start_date | user_id |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Green Action, save the earth | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

**Step 7: Let's add a few more tasks;**





```
mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description                | end_date | name           | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Green Action, save the earth | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
+----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description                | end_date | name           | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Green Action, save the earth | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
| 2  | Swimming for 1 hr          | 2021-01-24 | Workout        | Low      | 2021-01-23 | 1       |
| 3  | Kitchen, bathroom, bedroom, windows, floor | 2021-01-31 | Apt Cleaning    | High     | 2021-01-19 | 1       |
+----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

**Step 4: Let's update workout information. Click update, will go to `/username/update-task/{task.id}`, the original data will be displayed and we can modify it . Once submitted, will go back to the task list and display the updated tasks. Data will be persisted in the database.**

localhost:8080/SpringbootCoder2021/update-task/2

### Update Task

Name  
Workout

Description  
Swimming for 1 hr

Start Date 2021-01-23

End Date 2021-01-24

Severity  
High

[Submit](#)

[Back](#)

### Update Task

Name  
Workout

Description  
Swimming for 30mins, biking for 30 mins

Start Date 2021-01-23

End Date 2021-01-24

Severity  
Medium

[Submit](#)

[Back](#)

localhost:8080/SpringbootCoder2021/task-list

### SpringbootCoder2021's Tasks:

[Add A New Task](#) [Back](#)

Name	Description	Start Date d/m/y	End Date d/m/y	Severity	Update	Delete
Water the plants	Green Action, save the earth	19/01/2021	31/01/2021	High	<a href="#">Update</a>	<a href="#">Delete</a>
Apt Cleaning	Kitchen, bathroom, bedroom, windows, floor	19/01/2021	31/01/2021	High	<a href="#">Update</a>	<a href="#">Delete</a>
Workout	Swimming for 30mins, biking for 30 mins	23/01/2021	24/01/2021	Medium	<a href="#">Update</a>	<a href="#">Delete</a>

```
mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description                               | end_date | name           | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Green Action, save the earth             | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
| 2  | Swimming for 1 hr                        | 2021-01-24 | Workout         | Low      | 2021-01-23 | 1       |
| 3  | Kitchen, bathroom, bedroom, windows, floor | 2021-01-31 | Apt Cleaning    | High     | 2021-01-19 | 1       |
+----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description                               | end_date | name           | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Green Action, save the earth             | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
| 2  | Swimming for 30mins, biking for 30 mins | 2021-01-24 | Workout         | Medium   | 2021-01-23 | 1       |
| 3  | Kitchen, bathroom, bedroom, windows, floor | 2021-01-31 | Apt Cleaning    | High     | 2021-01-19 | 1       |
+----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

**Step 5, let's delete the <Apt Cleaning> task, click delete, then the task will be deleted. Data will be deleted in the database as well.**

localhost:8080/SpringbootCoder2021/task-list

### SpringbootCoder2021's Tasks:

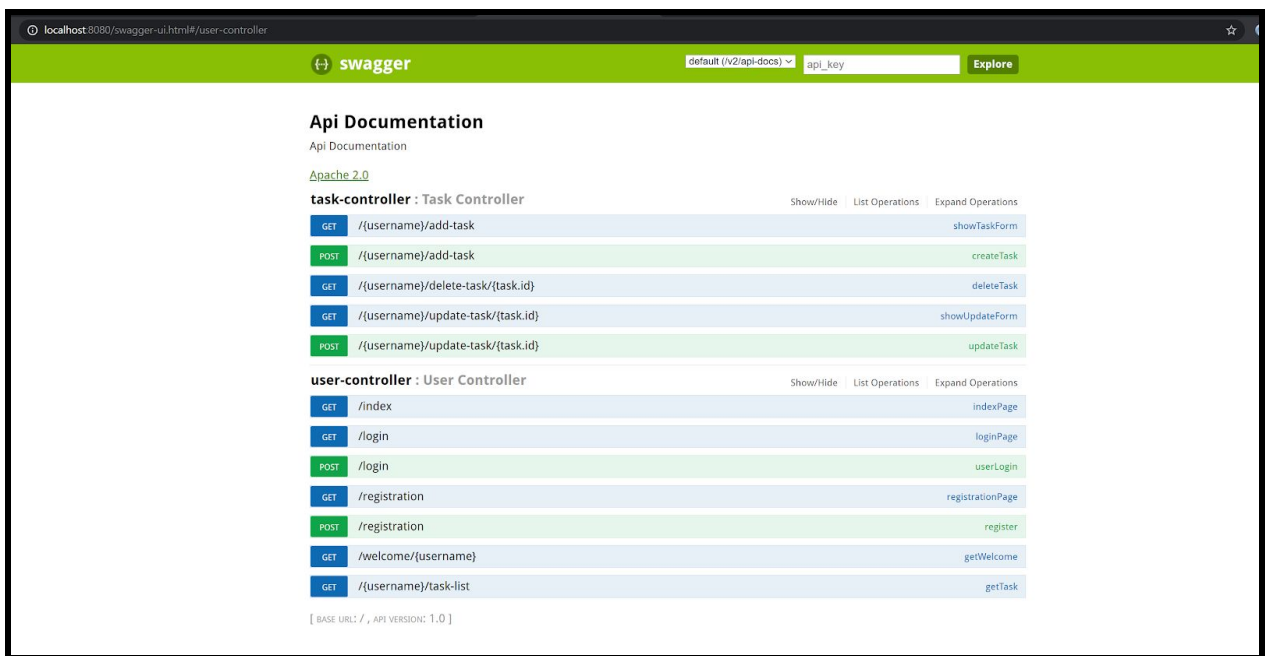
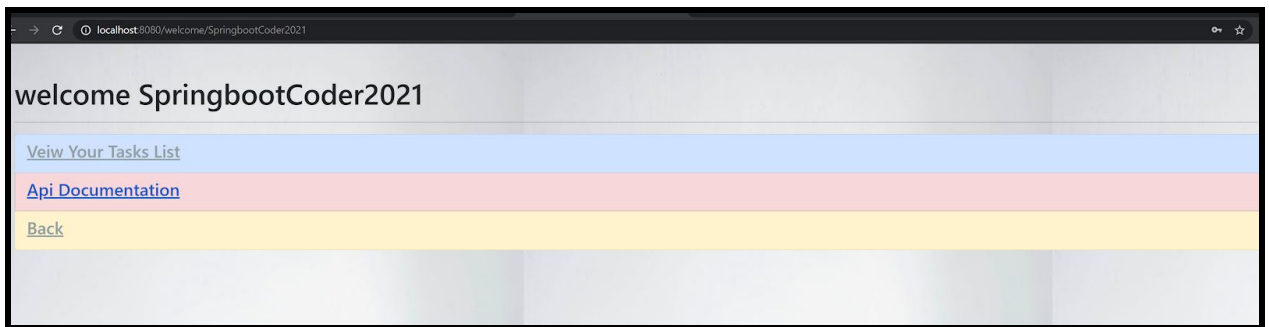
[Add A New Task](#) [Back](#)

Name	Description	Start Date d/m/y	End Date d/m/y	Severity	Update	Delete
Water the plants	Green Action, save the earth	19/01/2021	31/01/2021	High	<a href="#">Update</a>	<a href="#">Delete</a>
Workout	Swimming for 30mins, biking for 30 mins	23/01/2021	24/01/2021	Medium	<a href="#">Update</a>	<a href="#">Delete</a>

```
mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description                                | end_date | name           | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Green Action, save the earth              | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
| 2  | Swimming for 30mins, biking for 30 mins  | 2021-01-24 | Workout        | Medium   | 2021-01-23 | 1       |
| 3  | Kitchen, bathroom, bedroom, windows, floor | 2021-01-31 | Apt Cleaning   | High     | 2021-01-19 | 1       |
+----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description                                | end_date | name           | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Green Action, save the earth              | 2021-01-31 | Water the plants | High     | 2021-01-19 | 1       |
| 2  | Swimming for 30mins, biking for 30 mins  | 2021-01-24 | Workout        | Medium   | 2021-01-23 | 1       |
+----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

To check Swagger 2, click Api Documentation, will go the page



## Let's register another user

localhost:8080/registration

### Registration

Email address

User Name

Password

[Sign up](#)

```
mysql> select * from users;
```

id	email	password	username
1	SpringbootCoder12021@gmail.com	123	SpringbootCoder2021
2	viv@gmail.com	123	chefviv

```
2 rows in set (0.00 sec)
```

### Login

User Name

Password

[Login](#)

[Back](#)

chefviv's Tasks: [Add A New Task](#) [Back](#)

Name	Description	Start Date d/m/y	End Date d/m/y	Severity	Update	Delete
------	-------------	------------------	----------------	----------	--------	--------

## Create A New Task

Name

Java Project

Description

Create a mini task manager app by using springboot , as a user, I can the create, update, delete tasks.

Start Date 2021-01-18

End Date 2021-01-18

Severity

High

Submit

Back

chefviv's Tasks: [Add A New Task](#) [Back](#)

Name	Description	Start Date d/m/y	End Date d/m/y	Severity	Update	Delete
Java Project	Create a mini task manager app by using springboot , as a user, I can the create, update, delete tasks.	18/01/2021	18/01/2021	High	<a href="#">Update</a>	<a href="#">Delete</a>

As we can see, because tasks and user are many to one relationship, so inside the task table, there is user\_id column as join column to associate both side.

```
mysql> select * from tasks;
+----+-----+-----+-----+-----+-----+-----+
| id | description | end_date | name | severity | start_date | user_id |
+----+-----+-----+-----+-----+-----+-----+
| 1 | Green Action, save the earth | 2021-01-31 | Water the plants | High | 2021-01-19 | 1 |
| 2 | Swimming for 30mins, biking for 30 mins | 2021-01-24 | Workout | Medium | 2021-01-23 | 1 |
| 4 | Create a mini task manager app by using springboot , as a user, I can the create, update, delete tasks. | 2021-01-18 | Java Project | High | 2021-01-18 | 2 |
+----+-----+-----+-----+-----+-----+-----+
1 rows in set (0.00 sec)

mysql>
```

Github link: <https://github.com/chefvivica/task-manager-app-phase3-end-project>