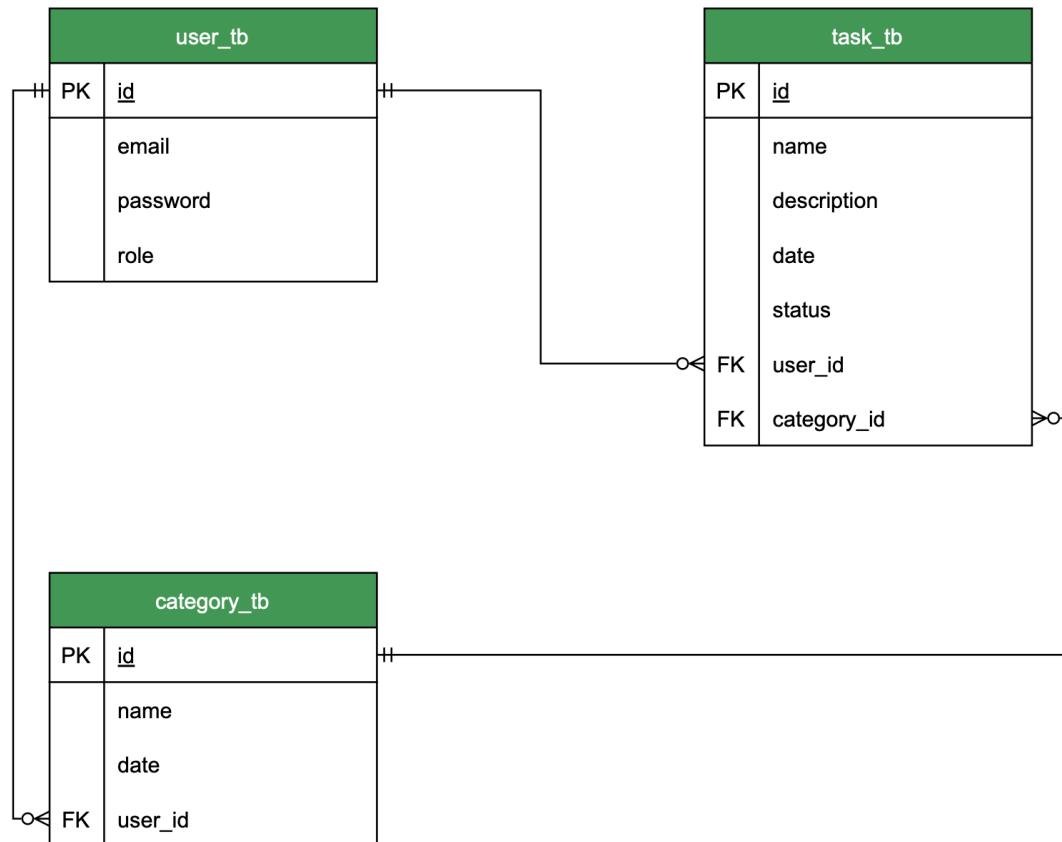


Spring Mini Project Guideline 001

ERD Diagram



About

Building the Restful API using MyBatis and JWT

There are three main RestControllers :

1. AuthController
2. CategoryController
3. TaskController

+ AuthController

→ **POST:** **[/api/v1/register]** The response of this endpoint should be like this

```
{
  "payload": {
    "userId": 2,
    "email": "andy@gmail.com"
  },
  "date": "2023-03-23T13:03:16.548915",
  "success": true
}
```

→ **POST:** [/api/v1/login] The response of this endpoint should be like this

```
{
  "payload": {
    "userId": 2,
    "email": "andy@gmail.com",
    "token":
"eyJhbGciOiJIUzUxMiJ9.eyJzdWUiOiJhbmR5QGdtYWlsLmNv
bSIsImIhdCI6MTY3OTU1MTQxMCwiZXhwljoyMDM5NTUxND
EwfQ.sO7tvh4kYODJiYaiJT1qwXejqntQYHOGPCnh59qUR6gF
3Z5mdOD22Rw2s4jl9rsoXLqvYfDJJ0gJtxlqvcWBLw"
  },
  "date": "2023-03-23T13:03:30.318003",
  "success": true
}
```

+ CategoryController

→ **POST**: [/api/v1/categories/users] The response of this endpoint should be like this

```
{
  "payload": {
    "categoryId": 4,
    "categoryName": "My Tasks",
    "userId": 2,
    "date": "2023-03-23T06:23:35.245+00:00"
  },
  "date": "2023-03-23T13:23:35.246794",
  "success": true
}
```

→ **GET**: [/api/v1/categories] The response of this endpoint should be like this

```
{
  "payload": [
    {
      "categoryId": 1,
      "categoryName": "School Task",
      "userId": 1,
      "date": "2023-03-23T04:43:13.174+00:00"
    },
    {
      "categoryId": 4,
```

```
    "categoryName": "My Tasks",
    "userId": 2,
    "date": "2023-03-23T06:23:35.245+00:00"
  },
  "date": "2023-03-23T13:26:12.334726",
  "success": true
}
```

→ **GET**: [/api/v1/categories/{id}] The response of this endpoint should be like this

```
{
  "payload": {
    "categoryId": 1,
    "categoryName": "School Task",
    "userId": 1,
    "date": "2023-03-23T04:43:13.174+00:00"
  },
  "date": "2023-03-23T13:35:07.439182",
  "success": true
}
```

→ **PUT**: [/api/v1/categories/{id}/users] The response of this endpoint should be like this

```
{
  "payload": {
    "categoryId": 4,
    "categoryName": "Home task",
    "userId": 2,
    "date": "2023-03-23T06:23:35.245+00:00"
  },
  "date": "2023-03-23T13:33:01.026443",
  "success": true
}
```

→ **DELETE:** [/api/v1/categories/{id}/users] The response of this endpoint should be like this

```
{
  "payload": "Delete this category id : 4 is successful !!",
  "date": "2023-03-23T13:37:28.900784",
  "success": true
}
```

→ **GET:** [/api/v1/categories/{id}/users] The response of this endpoint should be like this

```
{
  "payload": {
    "categoryId": 5,
    "categoryName": "My Tasks",
    "userId": 2,
```

```
    "date": "2023-03-23T06:59:29.992+00:00"
  },
  "date": "2023-03-23T13:59:41.185777",
  "success": true
}
```

→ **GET: [/api/v1/categories/users]** The response of this endpoint should be like this

◆ **Using pagination**

◆ **Using sort by date both asc and desc**

```
{
  "payload": [
    {
      "categoryId": 5,
      "categoryName": "My Tasks",
      "userId": 2,
      "date": "2023-03-23T06:59:29.992+00:00"
    }
  ],
  "date": "2023-03-23T13:59:45.516731",
  "success": true
}
```

+ **TaskController**

→ **POST**: [/api/v1/tasks/users] The response of this endpoint should be like this

```
{
  "payload": {
    "taskId": 3,
    "taskName": "Reading Books",
    "description": "reading in Korean book",
    "date": "2023-03-23T07:17:06.380+00:00",
    "userId": 2,
    "status": "is_in_progress",
    "categoryId": 5
  },
  "date": "2023-03-23T14:17:06.383788",
  "success": true
}
```

→ **GET**: [/api/v1/tasks] The response of this endpoint should be like this

```
{
  "payload": [
    {
      "taskId": 2,
      "taskName": "Spring basic auth",
      "description": "implement spring basic auth",
      "date": "2023-03-23T05:14:53.617+00:00",
      "userId": 1,
      "status": "is_completed",
      "categoryId": 1
    },
  ],
}
```

```
{
  "taskId": 3,
  "taskName": "Reading Books",
  "description": "reading in Korean book",
  "date": "2023-03-23T07:17:06.380+00:00",
  "userId": 2,
  "status": "is_in_progress",
  "categoryId": 5
},
{
  "date": "2023-03-23T14:18:31.981832",
  "success": true
}
```

→ **GET:** **[/api/v1/tasks/{id}]** The response of this endpoint should be like this

```
{
  "payload": {
    "taskId": 3,
    "taskName": "Reading Books",
    "description": "reading in Korean book",
    "date": "2023-03-23T07:17:06.380+00:00",
    "userId": 2,
    "status": "is_in_progress",
    "categoryId": 5
  },
  "date": "2023-03-23T14:20:05.171871",
}
```



```
"success": true
}
```

→ **DELETE**: [/api/v1/tasks/{id}/users] The response of this endpoint should be like this

```
{
  "payload": "Delete this task id : 3 is successful !!",
  "date": "2023-03-23T16:13:53.938841",
  "success": true
}
```

→ **PUT**: [/api/v1/tasks/{id}/users] The response of this endpoint should be like this

```
{
  "payload": {
    "taskId": 3,
    "taskName": "Reading Books",
    "description": "reading in Korean book",
    "date": "2023-03-23T00:16:50.793+00:00",
    "userId": 2,
    "status": "is_completed",
    "categoryId": 5
  },
  "date": "2023-03-23T14:22:23.617757",
  "success": true
}
```

→ **GET:** [/api/v1/tasks/users] The response of this endpoint should be like this

```
{
  "payload": [
    {
      "taskId": 3,
      "taskName": "Reading Books",
      "description": "reading in Korean book",
      "date": "2023-03-23T00:16:50.793+00:00",
      "userId": 2,
      "status": "is_completed",
      "categoryId": 5
    }
  ],
  "date": "2023-03-23T14:36:13.515276",
  "success": true
}
```

→ **GET:** [/api/v1/tasks/status/users] The response of this endpoint should be like this

◆ **Using pagination**

◆ **Using sort by date both asc and desc**

```
{
  "payload": [
    {
      "taskId": 3,
      "taskName": "Reading Books",
      "description": "reading in Korean book",
      "date": "2023-03-23T00:16:50.793+00:00",
      "userId": 2,

```

```

    "status": "is_completed",
    "categoryId": 5
  }
],
"date": "2023-03-23T14:42:08.777234",
"success": true
}

```

Swagger Powered by SMARTBEAR [Explore](#)

To-Do List HRD 1.0 OAS3

[/v3/api-docs](#)

A to-do list is a simple and effective tool for keeping track of things you need to do.

Servers

[Authorize](#)

task-controller

GET	/api/v1/tasks/{id}/users	Get task by id for current user	✓	🔒
PUT	/api/v1/tasks/{id}/users	Update task by id for current user	✓	🔒
DELETE	/api/v1/tasks/{id}/users	Delete task by id for current user	✓	🔒
GET	/api/v1/tasks/users	Get all tasks for current user	✓	🔒
POST	/api/v1/tasks/users	Add new tasks	✓	🔒
GET	/api/v1/tasks	Get all tasks	✓	🔒
GET	/api/v1/tasks/{id}	Get task by id	✓	🔒
GET	/api/v1/tasks/status/users	Filter task by status for current user	✓	🔒

category-controller			^
PUT	/api/v1/categories/{id}/users	Update category by id	✓ 🔒
DELETE	/api/v1/categories/{id}/users	Delete category by id for current user	✓ 🔒
GET	/api/v1/categories	Get all categories	✓ 🔒
POST	/api/v1/categories	Add new category	✓ 🔒
GET	/api/v1/categories/{id}	Get category by id	✓ 🔒
GET	/api/v1/categories/{id}/users/	Get category by id for current user	✓ 🔒
GET	/api/v1/categories/users	Get all categories for current user	✓ 🔒
auth-controller			^
POST	/auth/register		✓
POST	/auth/login		✓
Schemas			^
TaskRequest >			
ResponseTask >			

Objective

- Understanding CRUD operations with REST Controllers
- Implementing validation and customizing exceptions.
- Implement with spring security JWT

Deadline

- Start date: 23/03/2023
- Collecting Date: (Tuesday) 28/03/2023 at 11:59 PM