Tasks Application's docs (20191219)

About

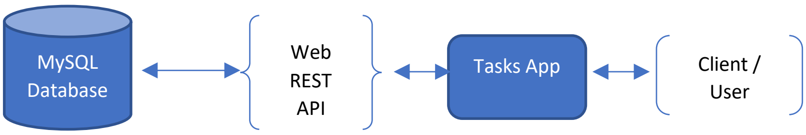
This app makes task management easer. You have every task in one place, wherever you are and whenever you want.

Version

This is documentation's version number 20191219 and it corresponds with the app version 0.0.1

Content

Architecture



Installation

Suggested installation is based on local server with MySQL database (it can be downloaded here: https://www.mysql.com/downloads/).

App configuration file *application.properties*:

```
spring.jpa.hibernate.ddl-auto=update
spring.jpa.database=mysql
spring.jpa.properties.hibetnate.dialect=org.hibernate.dialect.MySQL5Dialect
spring.datasource.url=jdbc:mysql://localhost:3306/task_crud?serverTimezone=Europe/
Warsaw&useSSL=False
spring.datasource.username=kodilla
spring.datasource.password=your_password
spring.jpa.hibernate.naming.physical-
strategy=org.hibernate.boot.model.naming.PhysicalNamingStrategyStandardImpl
```

Dependencies

```
dependencies {
   compile('org.springframework.boot:spring-boot-starter-web')
```

```
    compileOnly('org.projectlombok:lombok')
    compile('org.springframework.boot:spring-boot-starter-data-jpa')
    compile('mysql:mysql-connector-java')
    annotationProcessor 'org.projectlombok:lombok'

    testCompile 'org.springframework.boot:spring-boot-starter-test'
}
```

API methods

GET /v1/task/getTasks – shows all tasks

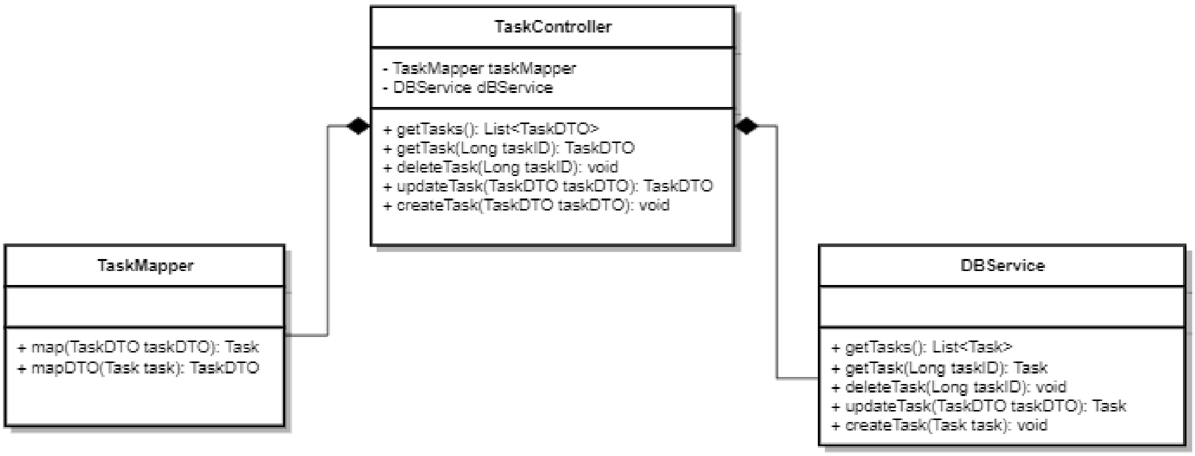
GET /v1/task/getTask?taskID=*taskID –* shows specific task

POST /v1/task/createTask – needs additional data in the request body in order to create new task

PUT /v1/task/updateTask – needs additional data in the request body in order to update new task

DELETE /v1/task/deleteTask?taskID= *taskID* – deletes specific task

Relations


TaskController
- TaskMapper taskMapper
- DBService dBService
+ getTasks(): List<TaskDTO>
+ getTask(Long taskID): TaskDTO
+ deleteTask(Long taskID): void
+ updateTask(TaskDTO taskDTO): TaskDTO
+ createTask(TaskDTO taskDTO): void
TaskMapper
+ map(TaskDTO taskDTO): Task
+ mapDTO(Task task): TaskDTO
DBService
+ getTasks(): List<Task>
+ getTask(Long taskID): Task
+ deleteTask(Long taskID): void
+ updateTask(TaskDTO taskDTO): Task
+ createTask(Task task): void

Classes

Task class defines how the SQL database entity Tasks has to be created.

```
@Getter
@AllArgsConstructor
@NoArgsConstructor
@Entity
@Table(name = "Tasks")
public class Task
{
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    @NotNull
    @Column(name = "taskID")
    private Long taskID;
    @Column(name = "taskTitle")
    private String taskTitle;

    @Column(name = "taskContent")
    private String taskContent;
}
```

TaskDTO class defines java representation of the SQL database objects/entries.

```
@Getter
@AllArgsConstructor
@NoArgsConstructor
public class TaskDTO
{
    private Long taskID;
    private String taskTitle;
    private String taskContent;
}
```