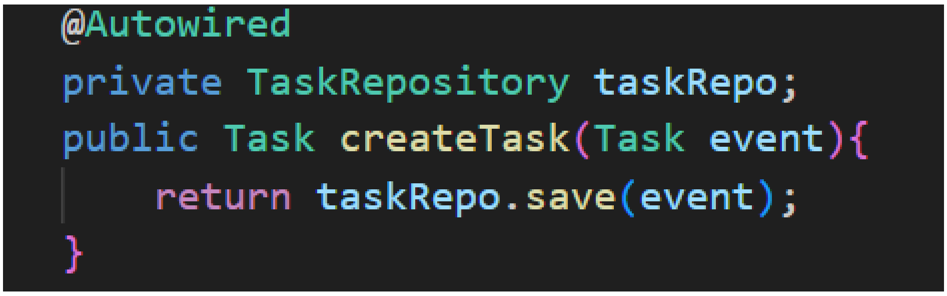
Giridharan KS

Broskie Hub Task 7 CRUD API Spring Boot:

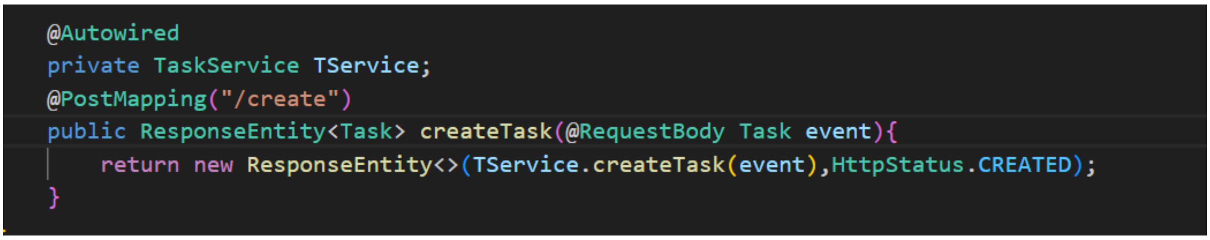
Create:

Service:



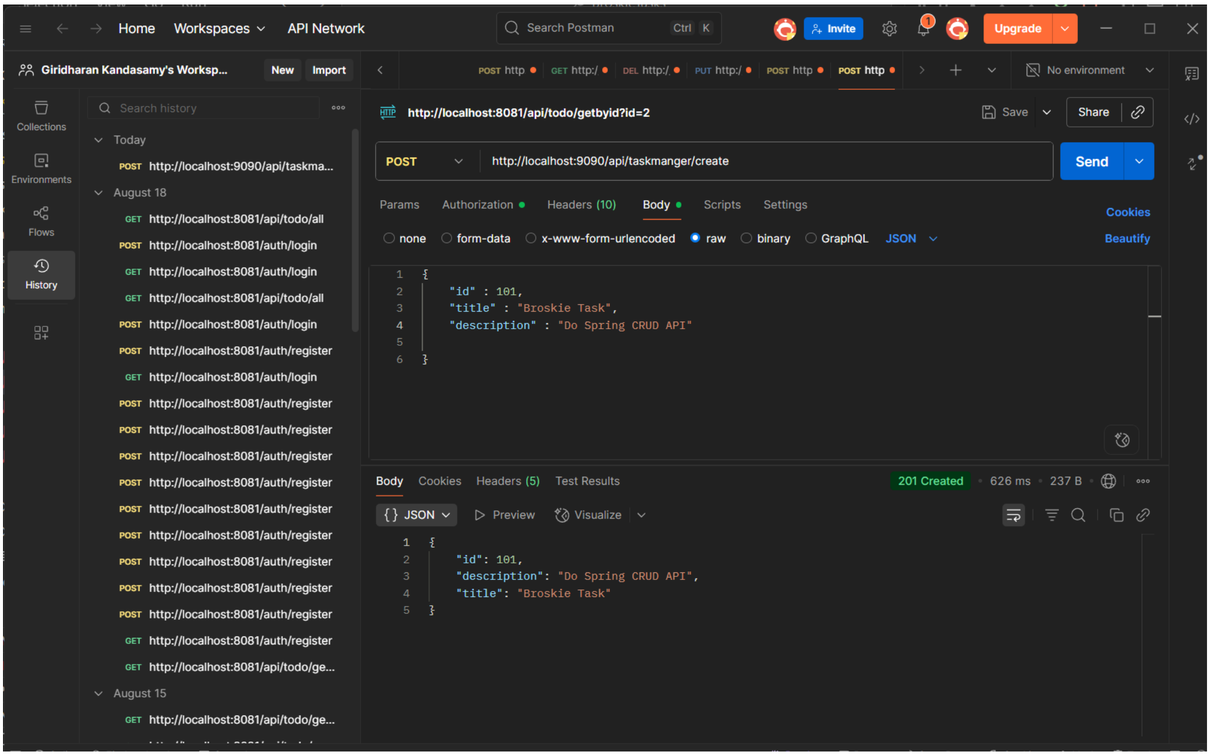
```java
@Autowired
private TaskRepository taskRepo;
public Task createTask(Task event){
    return taskRepo.save(event);
}
```

Controller:



```java
@Autowired
private TaskService TService;
@PostMapping("/create")
public ResponseEntity<Task> createTask(@RequestBody Task event){
    return new ResponseEntity<>(TService.createTask(event),HttpStatus.CREATED);
}
```

Postman output:



Today
POST http://localhost:9090/api/taskma...
August 18
GET http://localhost:8081/api/todo/all
POST http://localhost:8081/auth/login
GET http://localhost:8081/auth/login
GET http://localhost:8081/api/todo/all
POST http://localhost:8081/auth/login
POST http://localhost:8081/auth/register
GET http://localhost:8081/auth/login
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
POST http://localhost:8081/auth/register
GET http://localhost:8081/auth/register
GET http://localhost:8081/api/todo/ge...
August 15
GET http://localhost:8081/api/todo/ge...

http://localhost:8081/api/todo/getbyid?id=2

POST http://localhost:9090/api/taskmanger/create

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```json
{
    "id" : 101,
    "title" : "Broskie Task",
    "description" : "Do Spring CRUD API"

}
```

Body Cookies Headers (5) Test Results 201 Created 626 ms 237 B

{} JSON

```json
{
    "id": 101,
    "description": "Do Spring CRUD API",
    "title": "Broskie Task"
}
```

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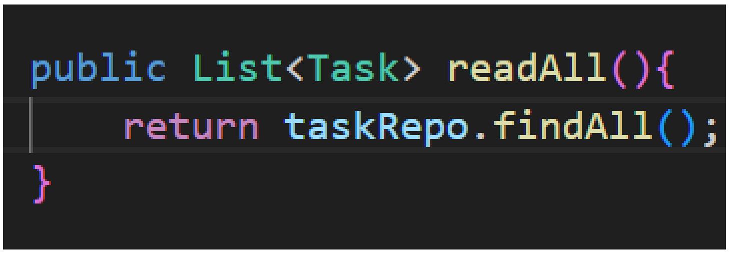
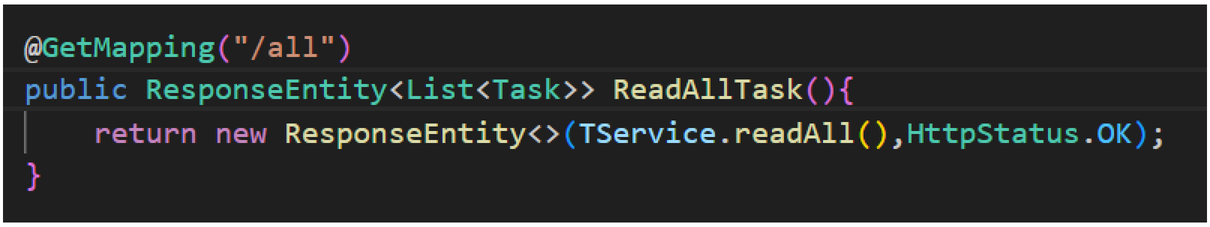
Read (All):

Service:



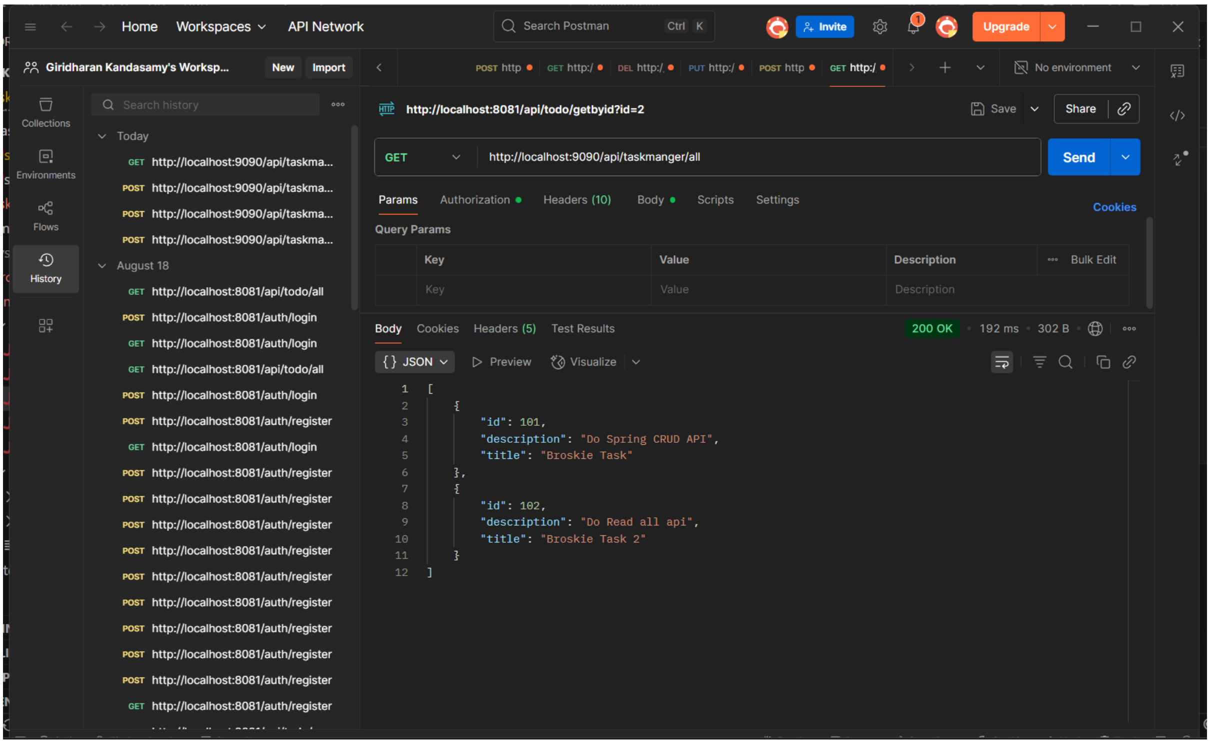
```
public List<Task> readAll(){
    return taskRepo.findAll();
}
```

Controller:



```
@GetMapping("/all")
public ResponseEntity<List<Task>> ReadAllTask(){
    return new ResponseEntity<>(TService.readAll(),HttpStatus.OK);
}
```

Postman output:



Today

- GET http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...

August 18

- GET http://localhost:8081/api/todo/all
- POST http://localhost:8081/auth/login
- GET http://localhost:8081/auth/login
- GET http://localhost:8081/api/todo/all
- POST http://localhost:8081/auth/login
- POST http://localhost:8081/auth/register
- GET http://localhost:8081/auth/login
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- POST http://localhost:8081/auth/register
- GET http://localhost:8081/auth/register

http://localhost:8081/api/todo/getbyid?id=2

GET http://localhost:9090/api/taskmanger/all

200 OK · 192 ms · 302 B

```
[
    {
        "id": 101,
        "description": "Do Spring CRUD API",
        "title": "Broskie Task"
    },
    {
        "id": 102,
        "description": "Do Read all api",
        "title": "Broskie Task 2"
    }
]
```

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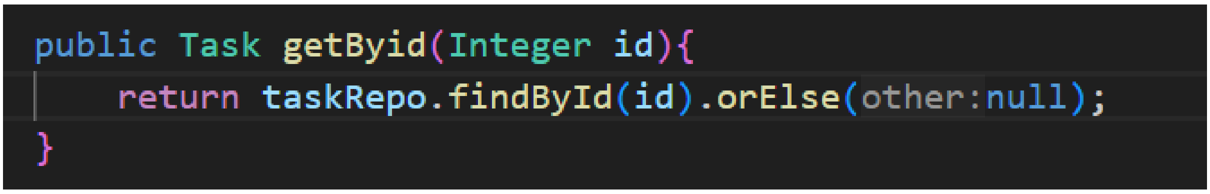
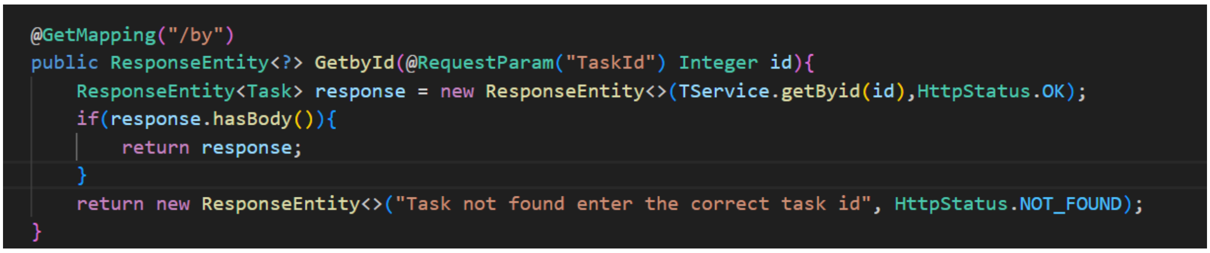
Read (by Task id):

Service:



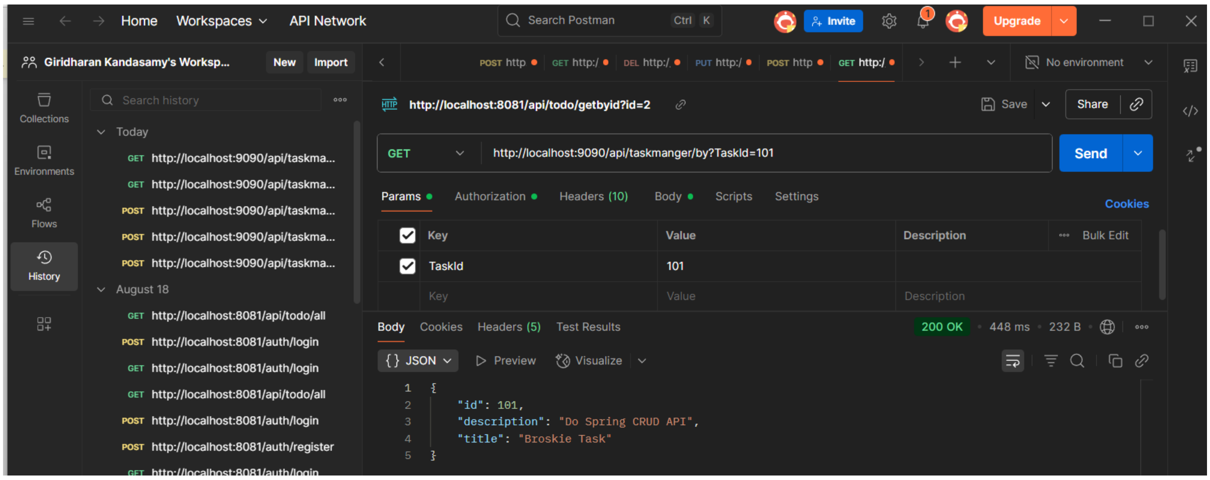
```
public Task getByid(Integer id){
    return taskRepo.findById(id).orElse(other:null);
}
```

Controller:



```
@GetMapping("/by")
public ResponseEntity<?> GetbyId(@RequestParam("TaskId") Integer id){
    ResponseEntity<Task> response = new ResponseEntity<>(TService.getByid(id),HttpStatus.OK);
    if(response.hasBody()){
        return response;
    }
    return new ResponseEntity<>("Task not found enter the correct task id", HttpStatus.NOT_FOUND);
}
```

Post Man (output)



Today
- GET http://localhost:9090/api/taskma...
- GET http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...

August 18
- GET http://localhost:8081/api/todo/all
- POST http://localhost:8081/auth/login
- GET http://localhost:8081/auth/login
- GET http://localhost:8081/api/todo/all
- POST http://localhost:8081/auth/login
- POST http://localhost:8081/auth/register
- GET http://localhost:8081/auth/login

http://localhost:8081/api/todo/getbyid?id=2

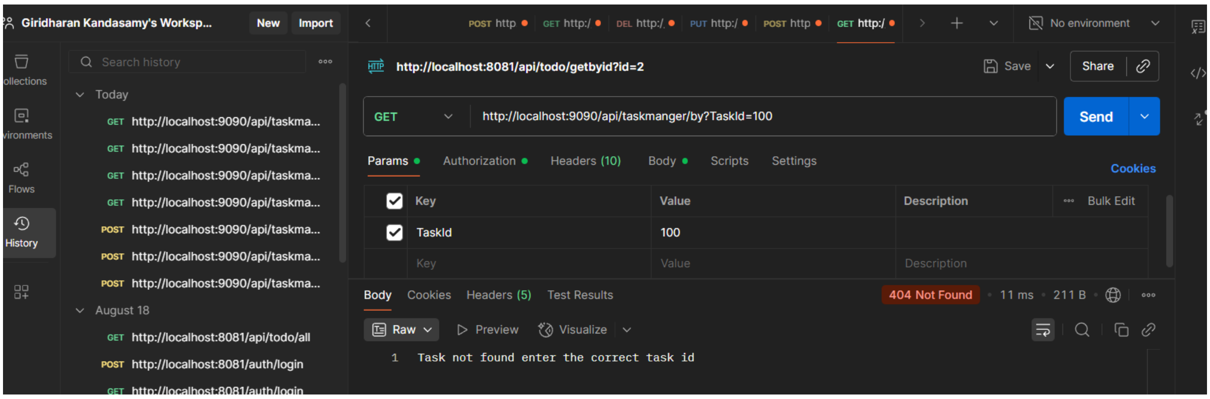
GET http://localhost:9090/api/taskmanger/by?TaskId=101

Params • Authorization • Headers (10) Body • Scripts Settings

Key	Value	Description
☑ TaskId	101	
Key	Value	Description

Body Cookies Headers (5) Test Results — 200 OK • 448 ms • 232 B

```
{
    "id": 101,
    "description": "Do Spring CRUD API",
    "title": "Broskie Task"
}
```



Today
- GET http://localhost:9090/api/taskma...
- GET http://localhost:9090/api/taskma...
- GET http://localhost:9090/api/taskma...
- GET http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...
- POST http://localhost:9090/api/taskma...

August 18
- GET http://localhost:8081/api/todo/all
- POST http://localhost:8081/auth/login
- GET http://localhost:8081/auth/login

http://localhost:8081/api/todo/getbyid?id=2

GET http://localhost:9090/api/taskmanger/by?TaskId=100

Params • Authorization • Headers (10) Body • Scripts Settings

Key	Value	Description
☑ TaskId	100	
Key	Value	Description

Body Cookies Headers (5) Test Results — 404 Not Found • 11 ms • 211 B

```
Task not found enter the correct task id
```

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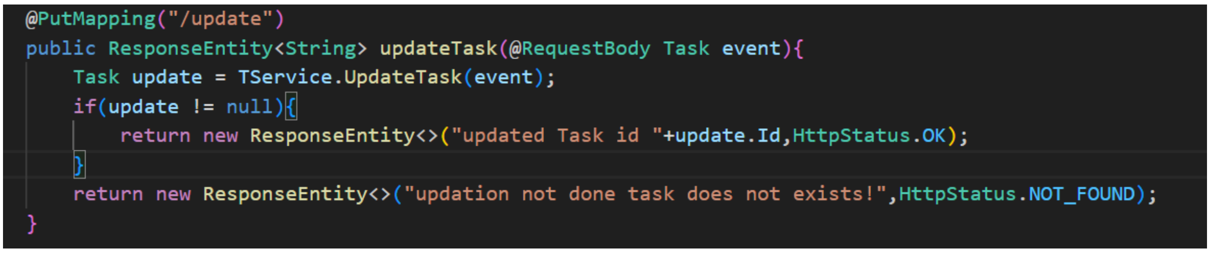
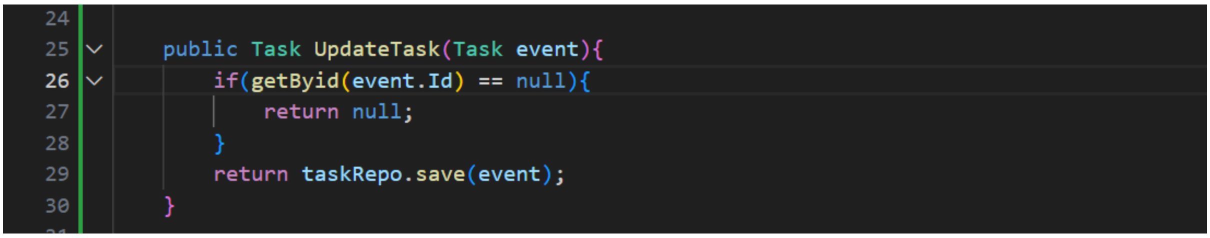
Update:

Controller:



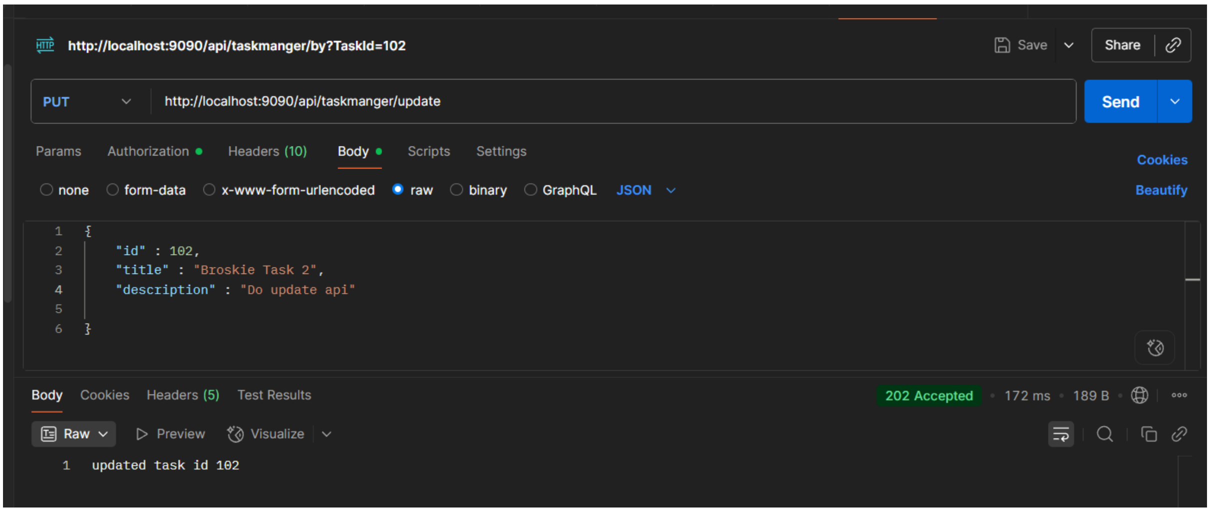
```java
@PutMapping("/update")
public ResponseEntity<String> updateTask(@RequestBody Task event){
    Task update = TService.UpdateTask(event);
    if(update != null){
        return new ResponseEntity<>("updated Task id "+update.Id,HttpStatus.OK);
    }
    return new ResponseEntity<>("updation not done task does not exists!",HttpStatus.NOT_FOUND);
}
```

Service:



```java
    public Task UpdateTask(Task event){
        if(getByid(event.Id) == null){
            return null;
        }
        return taskRepo.save(event);
    }
```

Post Man (output)



http://localhost:9090/api/taskmanger/by?TaskId=102

PUT http://localhost:9090/api/taskmanger/update

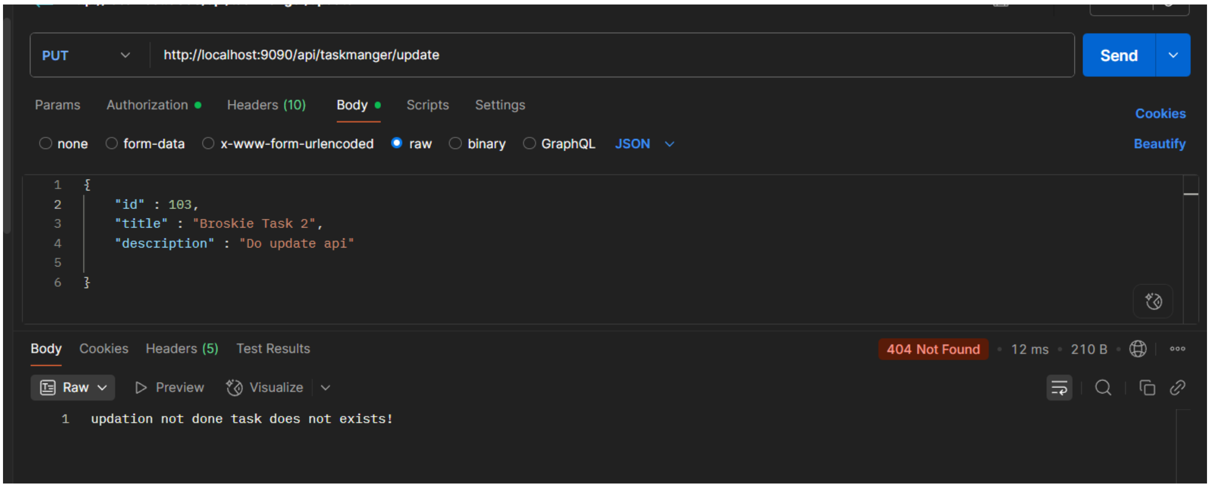
Body: raw JSON

```
{
    "id" : 102,
    "title" : "Broskie Task 2",
    "description" : "Do update api"

}
```

202 Accepted • 172 ms • 189 B

```
updated task id 102
```



PUT http://localhost:9090/api/taskmanger/update

Body: raw JSON

```
{
    "id" : 103,
    "title" : "Broskie Task 2",
    "description" : "Do update api"

}
```

404 Not Found • 12 ms • 210 B

```
updation not done task does not exists!
```

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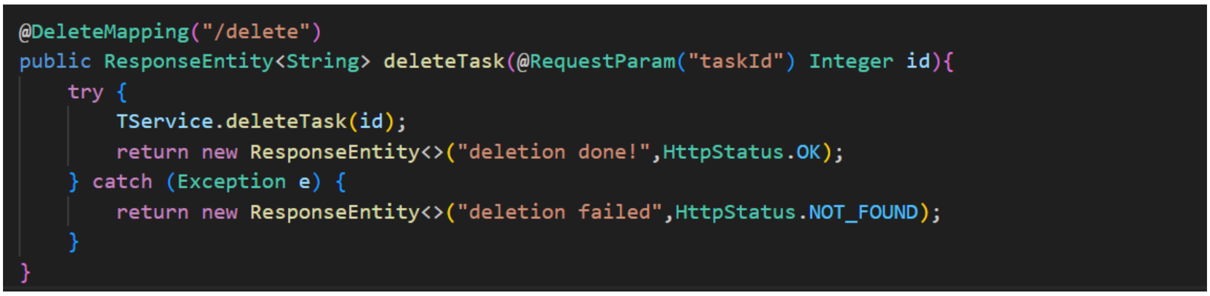
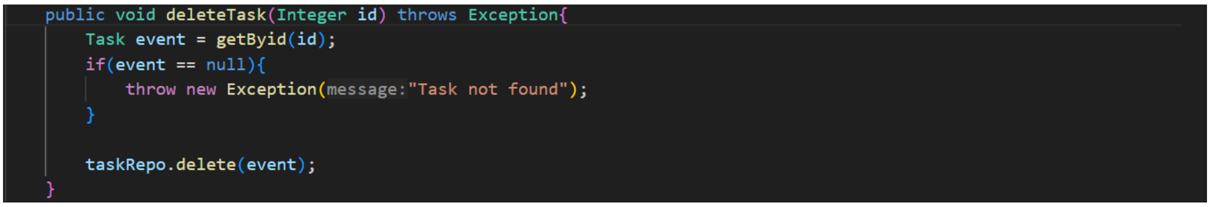
Delete

Controller:



```
@DeleteMapping("/delete")
public ResponseEntity<String> deleteTask(@RequestParam("taskId") Integer id){
    try {
        TService.deleteTask(id);
        return new ResponseEntity<>("deletion done!",HttpStatus.OK);
    } catch (Exception e) {
        return new ResponseEntity<>("deletion failed",HttpStatus.NOT_FOUND);
    }
}
```

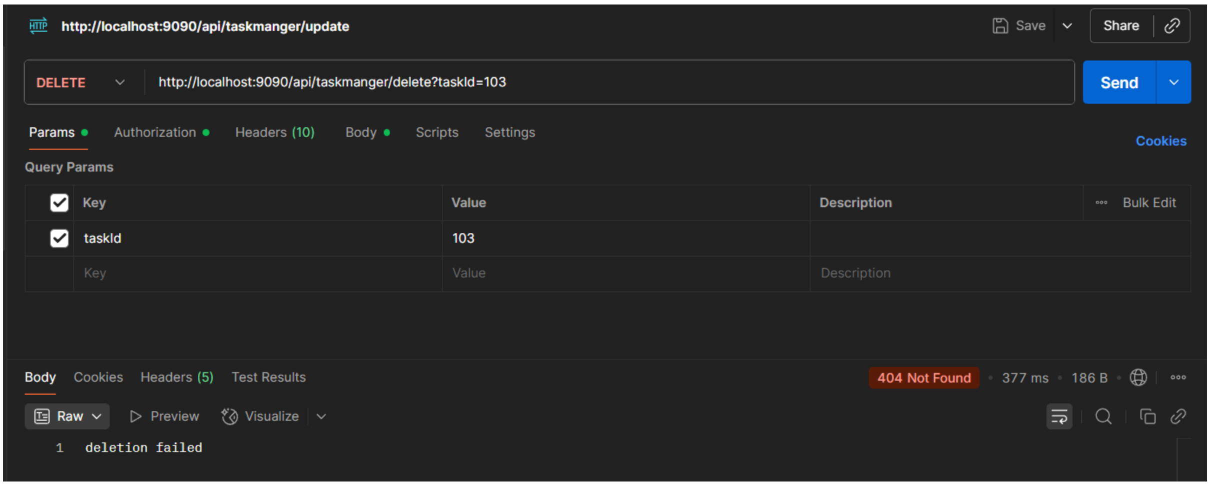
Service:



```
public void deleteTask(Integer id) throws Exception{
    Task event = getByid(id);
    if(event == null){
        throw new Exception(message:"Task not found");
    }

    taskRepo.delete(event);
}
```

Post Man (output)



http://localhost:9090/api/taskmanger/update

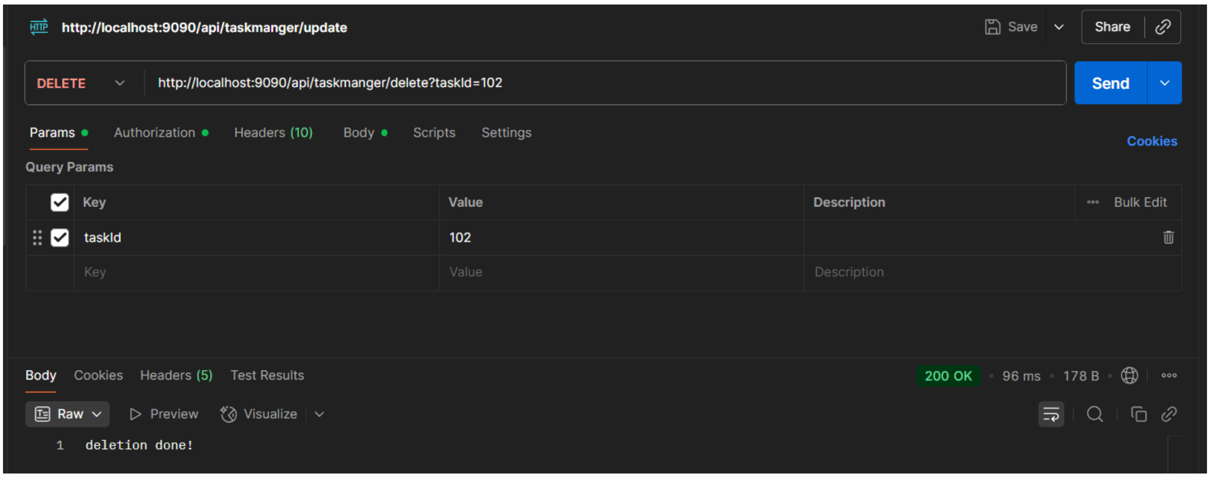
DELETE http://localhost:9090/api/taskmanger/delete?taskId=103

Query Params

☑	Key	Value	Description
☑	taskId	103	

404 Not Found • 377 ms • 186 B

```
1   deletion failed
```



http://localhost:9090/api/taskmanger/update

DELETE http://localhost:9090/api/taskmanger/delete?taskId=102

Query Params

☑	Key	Value	Description
☑	taskId	102	

200 OK • 96 ms • 178 B

```
1   deletion done!
```