**Assignment Project**

**By GoKapture**

**Documentation:**

**Prerequisites:**

* Java JDK (version 17)
* Maven
* MySQL database
* Git

**Git Repository Link:**

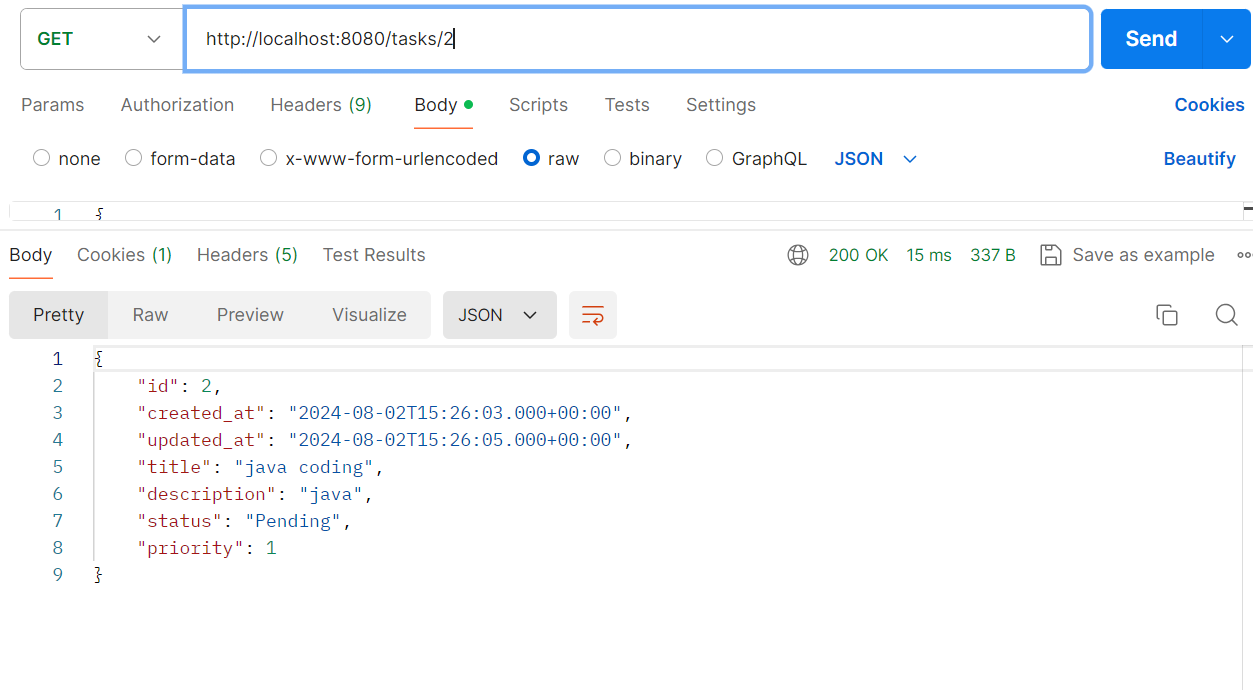
[SandhyaBharath01/TaskManagementSystem (github.com)](https://github.com/SandhyaBharath01/TaskManagementSystem)

**Instructions to Run the Application Locally:**

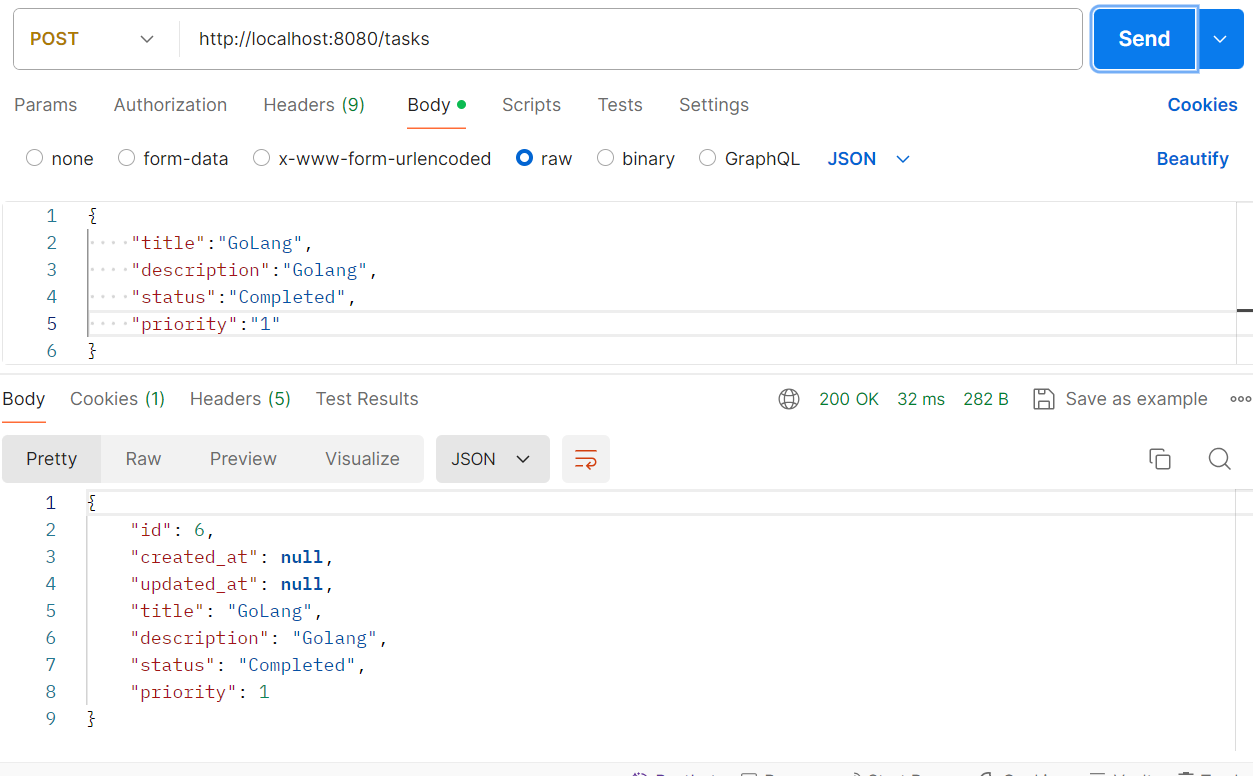
Application can be run and tested using **POSTMAN**

**Create and Export Postman Collection:**

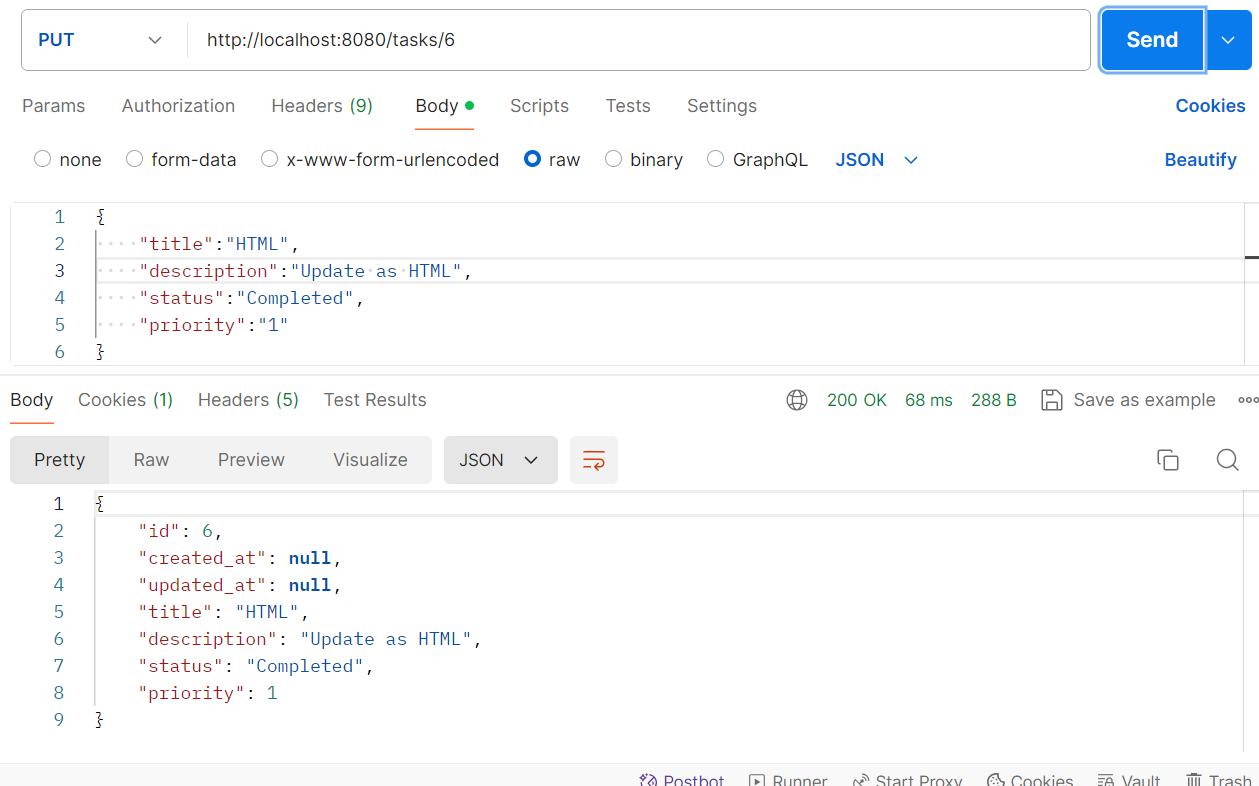
* Open Postman and add all the API endpoints that have been created
* GET: <http://localhost:8080/tasks>



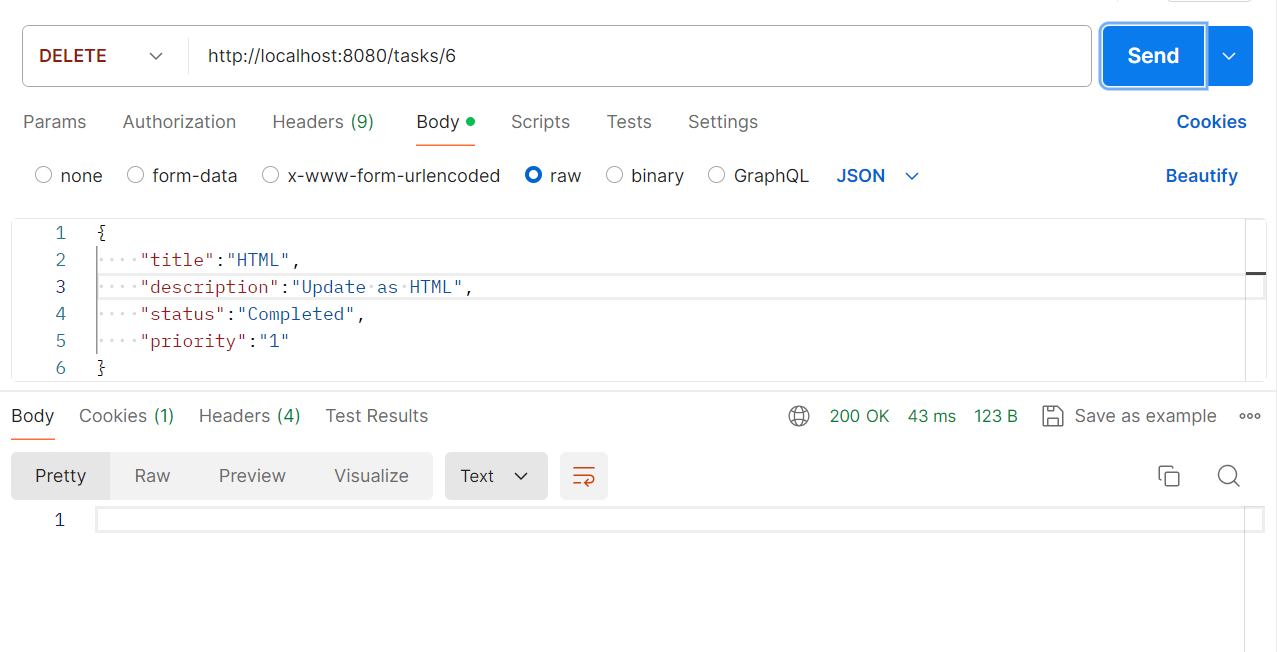
* POST: <http://localhost:8080/tasks>



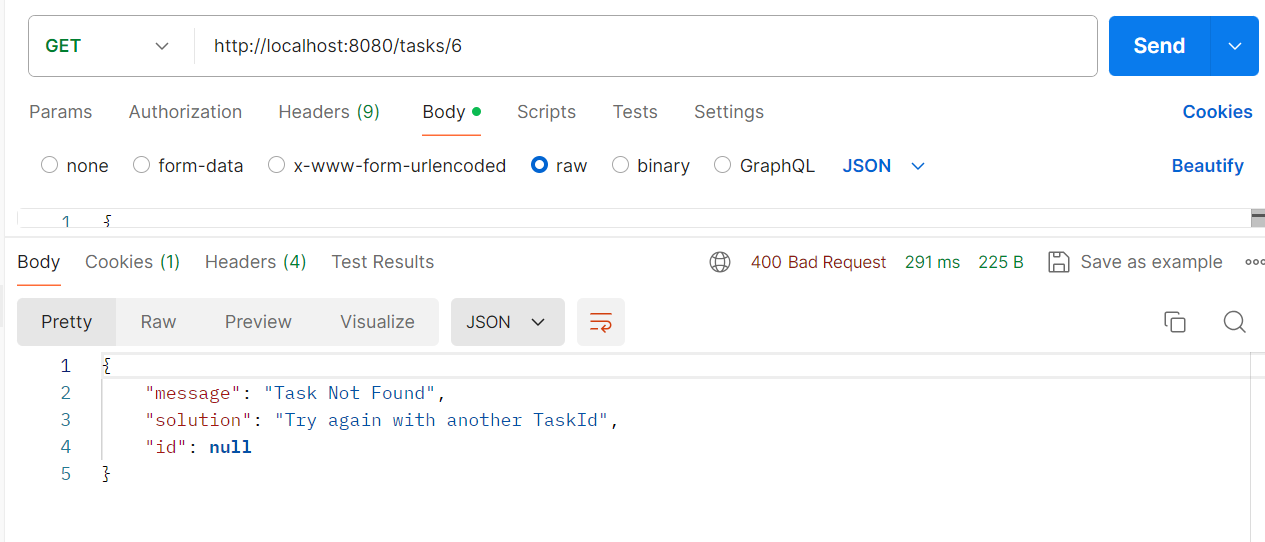
* UPDATE: <http://localhost:8080/tasks/2>



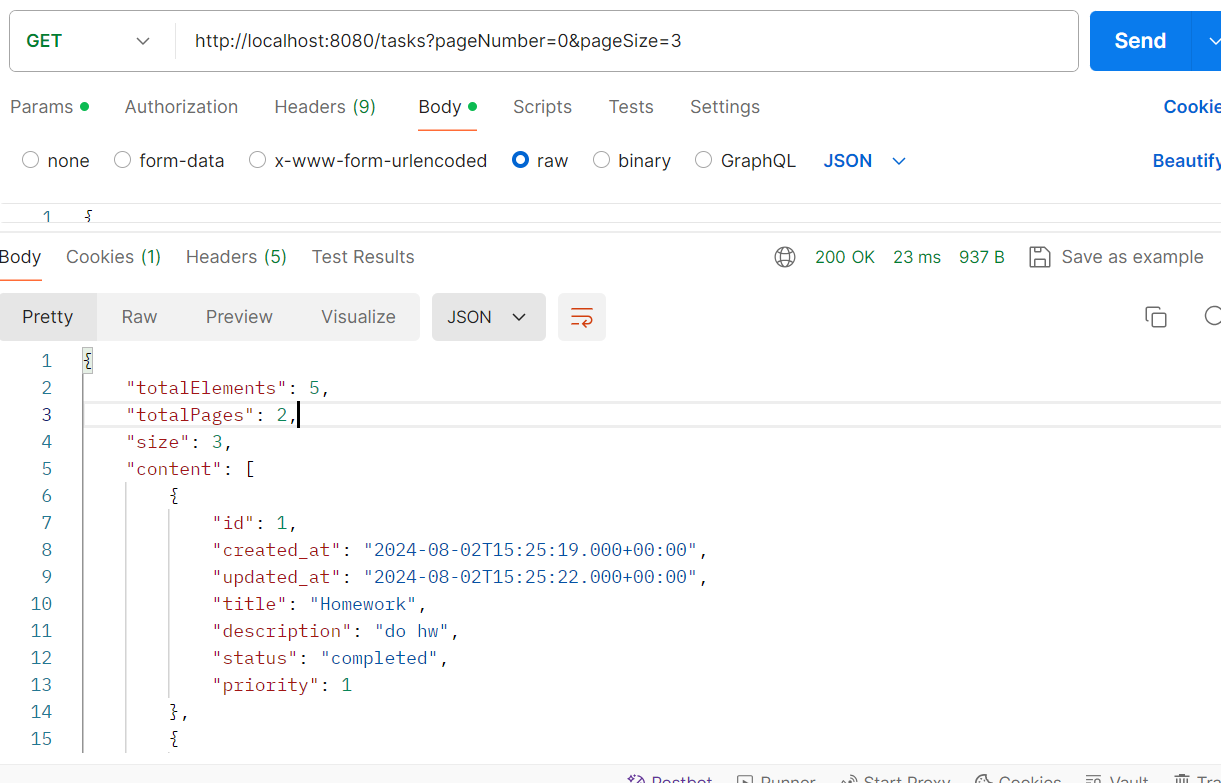
* DELETE: <http://localhost:8080/tasks/2>



Task number 6 was deleted so again when I try to get Task number 6 we get error message



* For Pagination:
  + GET: <http://localhost:8080/tasks?pageNumber=0&pageSize=4>



**API Documentation:**

**Project Structure:**

* I have created **Task Management** where all the CRUD operations were implemented
* The main components used were controllers, services, repositories, and models, Dtos, Exceptions.

**Database Design:**

* Database used in this project is **MySQL**
* I have created tables for Tasks with relevant columns.
* I have also mentioned the **Cardinalities** between the User and Tasks which is @OneToMany

**API Design:**

* Implemented all the CRUD operations
* I have followed **MVC Architecture** and **REST** principles in this project

**Security:**

* Describe the user registration and authentication mechanisms.
* Mention any security measures you implemented (e.g., password hashing, JWT tokens).