

## Assignment

# Crud APIs using SpringBoot

## Summary

In this assignment, I have built a backend service that interacts with the Swagger Petstore API data model and consists of RESTful API service that can perform CRUD(Create, Read, Update, Delete) operations on pet data, and has proper error handling for various scenarios.

Technology Stack: Implemented the backend using Java and Spring Boot.

Swagger Petstore API Interaction: Used the Swagger Petstore API as my dataSource for the Data models. The Swagger Petstore API documentation here: [\[Swagger Petstore API Documentation\]](#)

CRUD Operations: Implemented the following CRUD operations:

a. Create: Allow users to add new pets to the pet store.

b. Read: Retrieve pet information by ID.

c. Update: Update pet information.

d. Delete: Delete a pet by ID.

4. Error Handling: Implemented proper error handling for various scenarios:

a. Invalid input data.

b. Pet not found.

5. Testing: Wrote unit tests to ensure the functionality and error handling of CRUD Operations.

Also there was some ambiguity regarding the database to be used ,so I used MySQL database to persist the data.

Apart from the above mentioned thing,there was another confusion regarding the interaction with Swagger Petstore API ,so if we wanted to directly use the CRUD APIs of Swagger Petstore API we could have utilized Rest Template which is used for consuming RESTful Web Services and the `exchange()` method to consume the web service for all HTTP Methods.

GitHub Repo : [Link](#)