

# Java Machine Test

**Below requirements need to be implemented in machine test.**

- A) Use Spring boot
- B) Use Rest controller
- C) Need DB configuration (Use RDB instead of in-memory)
- D) Use annotation based configuration (Not XML).
- E) JPA & Hibernate

1) Category CRUD operation.

Below are the APIs required to be developed :

1	<a href="http://localhost:8080/api/categories?page=3">http://localhost:8080/api/categories?page=3</a>	GET all the categories
2	<a href="http://localhost:8080/api/categories">http://localhost:8080/api/categories</a>	POST - create a new category
3	<a href="http://localhost:8080/api/categories/{di}">http://localhost:8080/api/categories/{di}</a>	GET category by Id
4	<a href="http://localhost:8080/api/categories/{di}">http://localhost:8080/api/categories/{di}</a>	PUT - update category by id
5	<a href="http://localhost:8080/api/categories/{di}">http://localhost:8080/api/categories/{di}</a>	DELETE - Delete category by id

2) Product CRUD operation.

Below are the APIs required to be developed :

1	<a href="http://localhost:8080/api/products?page=2">http://localhost:8080/api/products?page=2</a>	GET all the products
2	<a href="http://localhost:8080/api/products">http://localhost:8080/api/products</a>	POST - create a new product
3	<a href="http://localhost:8080/api/products/{di}">http://localhost:8080/api/products/{di}</a>	GET product by Id

4	<a href="http://localhost:8080/api/products/{di}">http://localhost:8080/api/products/{di}</a>	PUT - update product by id
5	<a href="http://localhost:8080/api/products/{di}">http://localhost:8080/api/products/{di}</a>	DELETE - Delete product by id

3) Relation between Category-Products should have one-to-many relation. (One category can have multiple products).

4) Machine test should have Server side pagination.

5) While fetching single product details the response should be populated with respective category details.

Please share the code on Github via **GitHub or GitLab etc.**

**Note - After Completion of test Kindly mail the GITHUB or GITLAB link to [sakshi@nimapinfotech.com](mailto:sakshi@nimapinfotech.com) with your updated resume.**

When you submit the task write in your email subject - **ITVedant (Your Name)**

**Youtube Link for how to upload on GITHUB -**

<https://youtu.be/pXqVRKEUhoE>

<https://www.youtube.com/watch?v=Jt4Z1vwtXT0>