**Spring Boot Assignment**

**Spring Boot – Build a Rest CRUD API with Hibernate – Real-Time Project**

**API Requirements**

Create a REST API for a Parts Directory that will implement basic CRUD features.

Project Setup Dependencies:

* Spring Web
* Spring Data JPA
* MySQL Driver

The REST client should be able to:

1. Get a list of parts
2. Get a single part by id
3. Add a new part
4. Update a part
5. Delete a part

**REST API**

|  |  |  |
| --- | --- | --- |
| HTTP Methods |  | CRUD Action |
| POST | parts | Create a new part |
| GET | parts | Read a list of parts |
| GET | parts/{partsId} | Read a single part |
| PUT | parts | Update an existing part |
| DELETE | parts/{partsId} | Delete an existing part |

**Development Process**

1. Set up the Database Development Environment
2. Create Spring Boot project using Spring Initializr (IntelliJ)
3. Get a list of all the parts in the database.
4. Get a single part by ID.
5. Add a new part.
6. Update an existing part.
7. Delete an existing part.

**Application Architecture with Java Spring Boot Hibernate MySQL**

Parts

Rest Controller

Hibernate

Database

Parts DAO

Parts Service