http://localhost:8989/api/ProductsProduct Notification System

MicroServices:

ProductService

NotificationService

## Rest API (Products & Frameworks -> Compute & Integration):

* 1. Use Spring Boot to version and implement the REST endpoints.
  2. Implement HTTP methods like GET, POST, PUT, DELETE, PATCH to implement RESTful resources:

|  |  |  |
| --- | --- | --- |
| GET | http://localhost:8989/api/Products | Get all products details |
| GET | http://localhost:8989/api/Products/name/productName | Get all products with product name |
| GET | http://localhost:8989/api/Products/productId | Get all products with id |
| POST | http://localhost:8989/api/Products | Post new products using Id |
| POST | http://localhost:8989/api/email/sendMail | Fetch notification using email |
| PUT | http://localhost:8989/api/Products/ productId | Update details in products |
| DELETE | http://localhost:8989/api/Products/productId | Delete product by id |

* 1. Use necessary configuration in place for REST API in application.properties or bootstrap.properties or application.yml; whichever is applicable.
  2. Package Structure for Spring Boot Project will be like com.productmgmt.\* with proper naming conventions for package and beans.
  3. Use configuration class annotated with @Configuration and @Service for business layer.
  4. Use constructor-based dependency injection in few classes and setter-based dependency injection in few classes.
  5. Follow Spring Bean Naming Conventions

## Database (Products & Frameworks -> Database & Storage):

1. As an application developer:
   1. Implement ORM with Spring Data MongoRepository and MongoDB. For complex and custom queries, create custom methods and use @Query, Aggregations (AggregationOperation, MatchOperation, AggregationResults), implementation of MongoTemplate etc as necessary.
   2. Have necessary configuration in place for REST API in application.properties or bootstrap.properties or application.yml OR Java based configuration; whichever is applicable.

## PoJos

ProductService

Product :

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Not Null |
| Product Id | Alphanumeric | Not null |
| Product Name | Date | Not null |
| Product BIG Image | Long | Not null |
| Product Thumb nail | String | Not null |
| Product description | string | Not null |
| Product Short decription | string | Not null |
| Product Ratings | numeric | null |
| Price | Numeric | Not Null |
| is Active | Boolean | Not null |