**Target Tech – JAVA Training –Day 14 and 15**

1. Created another SpringBoot Application with the name: product-service. Filled in all the required details and added the following dependencies: Lombok, Spring Web, Spring Data JPA, MYSQL driver.
2. Added Product entity, defining the fields of the entity.
3. Added ProductDao as an interface to mention the methods that are not provided by CRUD operations by default. (extends CRUDRepository or PagingAndSortingRepository)
4. Added ProductService as an interface to define all the CRUD operations and Queries.
5. Added DefaultProductService class that implements ProductService interface.
6. Added ProductController to define the mappings of methods with APIs.
7. Added an application.yml file under resources directory.
8. Install mySQL(database client for VS code) extension in VS code.
9. Open terminal and go to product-service directory.
10. Type the command: “mvn clean package –DskipTests" to obtain a jar file.
11. Type the command: “java -jar target/product-service....(tab- select the .jar file) and Enter. ProductServiceApplication now starts running from this terminal. Press “control+Z” to exit.
12. In order to create a docker image: first create a file named: Dockerfile under the root directory.
13. Type in IJ terminal: “docker build –t product-service:0.0.1-SNAPSHOT –t product-service:latest .” Four steps take place:
14. Goes to the internet
15. Finds the docker image and downloads it
16. Makes a temporary container
17. Shuts down
18. Type the command in IJ terminal: “docker run –d –p 9090 product-service"
19. Check by typing: “docker ps” (this runs the container for few seconds)
20. Made changes in the application.yml and repeated steps; 10, 11 and 13
21. Type: “docker run –dp 9090:9090 –name=PRODUCT\_SERVICE –e MYSQL\_HOST=mysql8server product-service:latest”