Pseudocode

Inventory
- controller
  - ProductController
    - @RestController
    - @RestMapping("/products")

    ```
    Public class ProductController {
            @Autowired
            Private ProductRepository productRepository;

            @GetMapping
            Public List<Product> getAllProducts() {
                    Return productRepository.findAll();
            }
    ```

- model
  - Product
    ```
    @Entity
    public class Product implements Serializable {
            @Id
            @ GeneratedValue(strategy = GenerationType.IDENTITY)
            private int productId;
            private String productName;
            private int quantity;
            private double price;

            constructor

            Getters and setters

            toString()
    ```

  - PerishableProduct extends Product
    ```
    public class PerishableProduct (private int productId, private String
    productName, private int quantity, private double price;)

            constructor

            Getters and setters

            toString()  - also include to toString to override parent class
    ```

repository

ProductRepository

```java
public interface ProductRepository extends JpaRepository<Product,
 Integer> {
        Optional<Product> findByName(String name);
}
```


ui

Console

```java
public class Console {
        private Scanner console = new Scanner(System.in);

        displayMenuOptions();
        printHeader();
```

MenuOption

```java
public enum MenuOption {
        ADD("Add Product"),
        VIEW("View Products"),
        SEARCH("Search Product"),
        UPDATE("Update Product"),
        DELETE("Delete Product"),
        EXIT("Exit");

    constructor

    getMessage();
```


InventoryManagerApplication

```java
@SpringBootApplication
public class InventoryManagerApplication {
        public static void main(String[] argos) {
                SpringApplication.run(InventoryManagerApplication.class, args);
        }
}
```

InventoryManagerApplicationCLI

```java
@SpringBootApplication
public class InventoryManagerApplicationCLI implements CommandLineRunner
{

        @Autowired
        private ProductRepository productRepository;
        public static void main(String[] args)
        {SpringApplication.run(InventoryManagerApplicationCLI.class, args);}

        public void run(String[] args) {
                Console console = new Console();
                printHeader
                MenuOption
                        Switch statement



        public void addProduct();
        public void viewProduct();
        public void searchProduct();
        public void updateProduct();
        public void deleteProduct();
```