Pseudocode

Inventory package
       Controller package- setting up web application
              ProductController class
                     public class ProductController
                           getAllProducts() method

       Model package
              Product class
                     public class Product
                           Variables (productId (needs to be unique), productName, quantity,
                           Price (quantity and price need to be valid numeric inputs))
                           constructor
                           Getters and setters
                           toString()

              PerishableProduct (extends) Product class
                     public class PerishableProduct
                           Variables (productId, expirationDate)
                           constructor
                           Getters and setters
                           toString() - also include to toString to override parent class

       repository
              ProductRepository
                     public interface ProductRepository

       ui
              Console
                     public class Console
                         scanner
                         displayMenuOptions() method
                         printHeader() method

              MenuOption
                     Enums for switch statement (ADD, VIEW, SEARCH, UPDATE, DELETE,
                     EXIT)
                     constructor
                     getMessage() method

InventoryManagerApplication
   public class InventoryManagerApplication
      public static void main method

InventoryManagerApplicationCLI
   public class InventoryManagerApplicationCLI

      public static void main method

      public void run
         MenuOption with Switch statement

      - public void addProduct() method for user to add a product
      - public void viewProduct() method for user to view product (display in a structured format)
      - public void searchProduct() method for user to search for a product using name or Id (if not found, display message)
      - public void updateProduct() method for user to update the price or quantity of an existing product (make sure productId exists before updating)
      - public void deleteProduct() method for user to remove a product by Id. (If the Id is not found, display a message). Confirm the user wants to remove the product before removing.