

1 Create the following application

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3 Create the maven application and add the relevant dependencies discussed during theory session

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5 Class Product(int productId, String productName,String productDescription, double price,int quantity)

6 Provide the appropriate Constructors,accessors,mutators,toString

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8 Create a properties file/ Helper class as discussed during theory session for declaring and loading jdbc related configuration

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10 Interface ProductDAO

11 void createConnection()

12 void closeConnection()

13 void addProduct(Product product)

14 Product getProduct(int productId)

15 List<Product>getAllProducts()

16 void updateProduct(Product product)

17 void deleteProduct(int productId)

18 Class ProductDAOImpl that implements the ProductDAO and appropriately provides the implementation to the

19 functionality.

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21 Class ProductSortingUtility with below methods that sort and print the products accordingly

22 void sortDefault(List<Product> products) (by productId)

23 void sortByProductName(List<Product> products)

24 void sortByProductPrice(List<Product> products)

25 void sortByProductQuantity((List<Product> products))

26

27 Interface ProductService

28 void createProduct(Product product)

29 void findProductById(int productId)

30 List<Product> findAllProducts()

31 void modifyProduct(Product product)

32 void removeProduct(int productId)

33 void sortById(List<Product> products) (by productId)

34 void sortByProductName(List<Product> products)

35 void sortByProductPrice(List<Product> products)

36 void sortByProductQuantity((List<Product> products))

37

38 Class ProductServiceImpl that implements the ProductService and appropriately implements the methods

39 This service will use the ProductSortingUtility for relevant sorting operations

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42 Class TestProductSorting

43 **main method.**

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45 **Add about 10 products to table**

46 **Show a menu for listing the products as per sorting criteria.**

47 **Test the other CRUD methods as exposed by service.**

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