Class Diagram:

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| |  | | --- | | + class ShopApplet | | +void init()  +void paint(Graphics g)  +void ActionPerformed  -void initPayment  -void ResetFilter  -void Filter  -void UpdateList()  -boolean isKeyAvailable()  -void InitHome()  -void initDelivery()  -void initCart()  -void initPayment |   package ui   |  | | --- | | +class ListItem extends JEditorPane implements ListCellRenderer<Product> | | + void paint(Graphics g)  -void drawBorder(Graphics g, int t)  +Container getListCellRendererComponent(JList<? extends Product> jlist, Product product, int index, boolean isSelected, boolean cellHasFocus) | |

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| package Utilities   |  | | --- | | +class Utils | | + static final int PRICE\_MODE = 1;  +static final int NAME\_MODE = 2;  +static final int CAT\_MODE = 3; | | + static void sort(ProductList list, int mode, boolean dec)  +static ProductList search(ProductList list, String s)  +static ProductList getSimilarProducts(ProductList db, ProductList list, int length) | |

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| package lib   |  | | --- | | +class RandomCollection | | +void add(double weight, E result)  +E next() | |

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| package product   |  | | --- | | +class Product | | + String name, description;  + double price;  + Category category;  + String image;  - boolean onfeatured; | | + Product(String a, String b, double c, Category d)  + void onfeatured(boolean onfeatured)  +String toString() |  |  | | --- | | +class ProductList | | +static ProductList getDatabase()  +void sortByName(boolean dec)  +void sortByPrice(boolean dec)  +void sortByCategory(boolean dec)  +void shuffle()  +void swap(int a, int b)  + ProductList search(String s)  +ProductList getSimilar(ProductList list, int length)  +enum Category | |