

Q5 Z-Kart

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### Task : 1 - Customer Initialization

We are going to write a software to perform an online shopping application called **Z-Kart**.

The back bone for every online retail application is its customers. The initial customer details for our system will be given in a file zusers\_db.txt

The file contains multiple lines and every line will be of the form

| <b>UserName/Email</b>                            | <b>EncryptedPwd</b> | <b>Name</b> | <b>Mobile</b> |
|--------------------------------------------------|---------------------|-------------|---------------|
| <a href="mailto:abc@zoho.com">abc@zoho.com</a>   | ApipNbjm            | Rahul       | 9922992299    |
| <a href="mailto:123@zoho.com">123@zoho.com</a>   | Cboljoh             | Anitha      | 8564119904    |
| <a href="mailto:user@zoho.com">user@zoho.com</a> | kbwb22              | Arpan       | 9872345693    |

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At first, the Z-Kart application will read the contents of this file and initialize its customer base

### Task : 2 - Inventory Initialization

**Z-Kart** is an online shopping kart focussing on selling electronic gadgets especially laptops, mobiles and tablets

The inventory of Z-Kart is initialized from the file z-kart\_db.txt which is of below format

| <b>Category</b> | <b>Brand</b> | <b>Model</b> | <b>Price</b> | <b>Stock</b> |
|-----------------|--------------|--------------|--------------|--------------|
| Mobile          | Apple        | 6S           | 60000        | 10           |
| Mobile          | Motorola     | G            | 12000        | 5            |
| Laptop          | HP           | Elite        | 56000        | 20           |
| Tablet          | Google       | ChromeBook   | 8000         | 12           |

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Read the file and initialize the Z-Kart inventory database

### Task : 3 - Login

Already signed up customers can login into Z-Kart for shopping. In the login screen, get the username and password. Check whether the username entered is a valid registered user. If not, prompt the user to sign up instead of sign in!

As the users are not aware of and are abstracted from the encryptions applied to passwords, they will input the simple plain password which they provided. Encrypt it and verify with the stored encrypted password for authentication

#### **Task : 4 - Shopping**

The system will guide the user to ease his shopping effort. The user will choose what he looks for - ( Mobile / Laptop / Tablet ). The system will display the models, brand and price based on user's preference. The system can also suggest a list of best selling products in the category of gadget the user is looking for mobile/laptop/tablet.

The user will choose the brand and model. The system will ask for the user to continue shopping where he can add any number of additional products. Once he decides to check out the cart, the system will check the availability of stock for all the items in cart and present the user with an invoice.

The system will generate a unique invoice number and present the order details to the user

#### **Task : 5 - Admin mode**

Z-Kart supports a special login for the admin with the username [admin@zoho.com](mailto:admin@zoho.com) and password "xyzzzy"

When the password entered is correct, the user will be taken to the admin section. When the admin enters, first the app will display a list of items whose stock is less than or equal to a configured threshold (say 10) to help him in placing the re-order

Once the admin places the re-order, the stock details should get updated

#### **Task : 6 - Persistence of Order History**

The order history will be persisted for every user. Any user after successful login, is allowed to check his order history. The sample format of history is displayed below

Invoice Number 312684

Date 19-Jul-2016

| <b>Category</b> | <b>Brand</b> | <b>Model</b> | <b>Price</b> |
|-----------------|--------------|--------------|--------------|
| Mobile          | Apple        | 6S           | 60000        |

Total - 60000

Invoice Number 132793

Date 1-Jun-2016

| <b>Category</b> | <b>Brand</b> | <b>Model</b> | <b>Price</b> |
|-----------------|--------------|--------------|--------------|
| Tablet          | Google       | ChromeBook   | 8000         |

Total - 8000

Ensure that Z-Kart application continues to run until the user asks to quit