Design Document

Methods and Tools in SW Development

1. Group Information  
   Group Number: 25  
   Group Member names/netIDs:  
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   jrt524, sah725,
2. What classes are you going to have? Explain why.  
   Book Class – price, genre, quantity, author, title, ISBN,

Customer Class – first name, last name, customer ID, credit card info, shipping addresses, username, password, email

Shopping Cart Class ? -

Login/logout class – forgotPassword, checkUsername, checkPassword, getLoginStatus, logout

**II. Detailed Class Diagrams**

|  |
| --- |
| Book Class |
| Title, author, ISBN, genre, price, quantity, |
| getTitle, getAuthor, getISBN, getGenre, getPrice, getQuantity, getBook, decreaseQuantity |

* getTitle – gets book title
* getAuthor – gets book’s author
* getISBN – get book’s ISBN
* getGenre – get book’s genre
* getPrice – get book’s price
* getQuantity – get quantity of books in stock
* decreaseQuantity – reduces book quantity depending on how many books are bought
* getBook – get a books info
* …

**II. Detailed Class Diagrams**

|  |
| --- |
| Customer Class |
| First name, last name, customer ID, shipping address, username, password, phone number, email |
| getFirstName, getLastName, getCustomerID, getShippingAddress, getUsername, getPassword, getPhoneNumber, setFirstName, setLastName, setCustomerID, setShippingAddress,  setUsername, setPassword, setPhoneNumber, forgotPassword, getEmail, setEmail, |

**III. Menu Information**

Before login:

* Login
* Create Account
* Exit Program

After login:

* …
* Cart Information
  + Go back
  + View Cart
  + Remove Item from Cart
  + …
* …
* Exit Program

Does your menu cover all requirements given? If not, explain why certain requirements don’t have a distinct menu option?

<answer me!>

**IV. Information Storage**

How is your group storing information?

Include one of these lines of questioning based on your storage schema:

* If a database, what kind of database?
  + How many database tables will you have?
* If files, how will your files be format?
  + How many files are you going to use?

What information are you going to store in each (table / file depending on schema)?

*Sample Answer:*

* *Users*
  + *First name*
  + *Last name*
  + *Username*
  + *Password*
  + *…*
* *Cart*
  + *Item ID*
  + *…*