Final Report

Methods and Tools in SW Development

**I. Group Information**

Group Number: 4

Group Member names/netIDs:

* Lawrence Uhl
  + Lu30
* Kyle Dobbs
* Kd766
* Devion Gilbert
* Dg1530
* Marquanda Todd
* Mst163

Group GitHub/GitLab repo link: https://github.com/kd766/Methods\_And\_Tools

* For this project, we didn’t assign specific roles. We all worked on all the parts of the project together.

**II. Updated Detailed Class Diagrams**

When creating your project, did any of your classes change? Why did they have to change? Were the changes adding or removing items?

* We changed the user class and took out billing address because we thought shipping address and billing address would usually be the same. We added credit card number because we thought that would be useful. We made username the primary key and took out user ID and we took out admin because we didn’t find it useful.
* Inventory ID turned to ISBN and we also added title, author, genre, and quantity because we decided to do a book store.
* The other two did not change.

|  |
| --- |
| User |
| Data  - username: string  - firstName: string  - lastName: string  - password: string  - shippingAddr: string  - creditCardNumber: int |
| Functions  + user(string username, string password)  + isAdmin()  + checkPassword(string password, string userID)  + deleteUser(int userID)  + createAccount(string username, string firstName, string lastName, string password, string shippingAddr, string billingAddr)  + getCreditCardInfo()  + logout() |

|  |
| --- |
| Inventory Item |
| Data  - ISBN: int  - Author: string  - Title: string  - Quantity: int  - Genre: string |
| Functions  + inventory(int itemName)  + updateItemDescription(string description)  + generateID()  + inStock()  + updateAmount(int amount)  + removeItem()  + viewAllItems() |

**III. Conclusions**

If you were to flesh out your project more, what requirements do you think could be added?

We would add a billing address. We would have expanded options to include selling movies etc. We also would have liked to add customer support.

Are there any overall design choices you wish you could have changed in hindsight? What are they and why?

Start off with a simpler design that could be easier to change because we did not know how difficult the implementation would be.

What difficulties did your group have?

* Understanding where to start on the project and using github.
* Coordinating a time for the group to work together.

What did your group learn overall from the project?

* How to use mySQL
* The difficulty in implementing a design into a program
* How to use a program and a database at the same time