CS2365 Final Project Submission:

Part 1:

a.)

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| Users |
| + username: string  +password: string  +cart: Item[]  +supplier: bool  +address: string  +phone: string  +CreditCardNumber: int  +PremiumAccount: bool  +FirstAnnualPurchase: bool |
| + getUsers(): void  + setUsers(): void  + findUsername(): bool |

|  |
| --- |
| Item |
| +name: string  +amount: int  +reserved: int  +description: string  +regPrice: int  +premPrice: int |
| +<<constructor>>Items()  +getRegPrice(): string  +getPremPrice(): string  + price(): string  //  +GetInventory(): void  +SetInventory(): void |

|  |
| --- |
| invoice |
| +user: string  +premium: bool  +cart: Item[]  +date: string  +total: int  +card: int  +currentStatus: status  +confirmationCode: long |
| + GetAllOrders(): unsigned long  +SetAllOrders(): void |

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| --- |
| Bank |
| +CreditCard: int  +Price: int  + ConformationNumber: unsigned long  +Request: bool  +cf = unsigned long |
| + Bank(): public  + ChargeAmount(): void |

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| --- |
| OnImGuiRender |
| +app: application  +str: input file  +addPremiumPrice: bool  +verified: bool  +newcust: int  +purchaseCart: bool  +selectedOrder: nullptr  +output: stringstream  +found: bool |
| + onUpdate(): void  + menu(): void  + store(): void  + shoppingCart(): void  + login(): void  + creatAccount(): void  + createSupplierAccount(): void  + selectItems(): void  + makeOrder(): void  + viewOrder(): void  + viewInvoice(): void  + processOrder(): void  + shipOrder(): void  + viewStock(): void |

b.) File names for storing the account, order, stock, catalog, and credit card account in program:

* “Users.txt” file – used for storing account information
* “allOrders.txt” file – used for storing orders
* “Inventory.txt” file – used for stock and catalog information
* “Accounts.txt” file – used for storing credit card information

c.) Files “Bank.h” and “OSS.cpp” contain the code to thread for OOS and banking system in the program. The function ChargeAmount acts as a message buffer code in the bank file. The response connector code resides in the OSS.cpp file where the thread “BankingSystem” calls ChargeAmount if the bank has a request.