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| --- |
| CART |
| * itemId: int * itemName: String      * quantity: int      * price: double * totalPrice: double |
| + Cart()  + Cart(int itmId, String: iName, int quan, double pr,double tpr)    + setItemId(int id): void    + setItemName(String iName)    + setQuantity(int qid)    + setPrice(double pr)    + setTotalPrice(double tpr)  + getItemId(): int    + getItemName(): String  + getQuantity():int    + getPrice():double    + getTotalPrice():double |

**Object Oriented Analysis**

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| ITEM |
| - itemId: int    - uniqueName: String    - name: String    - price: double    - preparationtTime: int    - quantity: int    - String imageUrl: String    - timestamp: Timestamp |
| + Item()  + Item(int itemId, String name, String imageUrl,double price, int prepTime, int quantity)  + setItemId(int id): void  + setImageUrl(String url): void    + setName(String name): void  + setPrice(double price): void  + setPrepTime(int prepTime): void  + setQuantity(int quantity): void  + getItemId(): int  + getName():String  + getPrice(): double  + getPrepTime(): int  + getQuantity(): int    + getUniqueName():String  + getTimestamp():Timestamp    + getImageUrl():String |

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| ORDER |
| - orderId: int  - items: ArrayList<Item>  - user: User  - totalPrepTime: int    - totalPrice: double    - orderStatus: Status    - orderNumber: String  - timestamp: Timestamp |
| + Order()  + Order(int orderId, ArrayList<Item> items, User user, int prepTime, double totalPrice, String onum)  + setOrderId(int orderId):void    + setOrderStatus(Status status) :void    + setOrderNumber(String onum) :void  + setItems(ArrayList<Item> items) :void  + setUser(User user) :void  + setTotalPrepTime(int prepTime):void  + setTotalPrice(double tPrice) :void    + getOrderId(): int  + getItems():ArrayList<Item>  + getUser():User    + getOrderNumber():String  + getPrepTime(): int    + getTotalPrice(): double    + getOrderStatus(): Status  + getTimeStamp():Timestamp |

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| --- |
| USER |
| - Id: long    - FirstName: String    - LastName: String    - EmailAddress: String    - Password: String    - PhoneNumber: String    - UserType: UserType    - Timestamp: Timestamp |
| + User()    + User(String fName, String lName, String eMail, String pWord,String pNumber, UserType uType)    + long getUserId()    + getFirstName():String    + getLastName():String    + getEmailAddress():String  + getPhoneNumber():String    + getUserType():UserType    + getPassword():String    + getTimeStamp():Timestamp    + setFirstName(String FirstName) :void    + setLastName(String LastName) :void  + setPassword(String Password) :void  + setEmailAddress(String EmailAddress):void  + setPhoneNumber(String PhoneNumber) :void  + setUserType(UserType UserType) :void  + setUserId(long id) :void |

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| IDATAMANIPULATION (interface) |
| + int GetCurrentId():    + Add(T obj): boolean    + Add(ArrayList<T> lObj) : boolean    + Delete(Object id) : boolean    + Delete(ArrayList<Object> lObj) : boolean    + Edit(T obj) : boolean    + Edit(ArrayList<Object> lObj) : boolean    + GetSingle(Object id) : T    + GetAll(): ArrayList<T>    + Query(Object params): ArrayList<T>    + toJson(T o): String    + toJson(ArrayList<T> o): String    + fromJson(String str): T    + fromJsonArray(String str): ArrayList<T> |

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| IDISPLAYUSERERROR |
| + setError(String msg): void    + setDefault():void |

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| INITWRAPPER |
| + initBindings(): void    + activateListeners(): void |

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| CACHEHELPER |
| - Username: String    - UType: UserType  - Useremail: Sting    - EditItem: Item |
| + CacheHelper()    + getUsername():String    + getUseremail():String    + getUserType():UserType    + getItem():Item  + setUsername(String name): void    + setItem(Item itm) : void    + setUseremail(String email) : void    + setUsertype(UserType utype): void |

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| CUSTOMSCENEBUILDER |
| + BuildCustomerItemVBox(Item item): VBox    + BuildAnchorPane():AnchorPane  + BuildDShadow)(): DropShadow    + BuildLabel(Object str): Label    + BuildCustomerOrderItemHBox(Order item): HBox    + BuildAdminOrderItemHBox(Order item): HBox    + BuildAdminItemVBox(Item item): VBox |

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| EMAILHELPER |
| + EmailHelper(String toEmail, String subject, String msg) |

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| FILEHELPER |
| - absolutePath:String    - fname: String |
| + FileHelper()    + FileHelper(String fileName)    + create() : boolean    + write(String data): int    + read(): String    + setFileName(String fname): void  + getFileName():String |

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| GENERALHELPER |
| + EncodeString(String str): String  + DecodeString(String str) : String  + isNumeric(String strNum) : boolean |

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| ITEMSHELPER |
| * fp: FileHelper:   - json: Gson |
| + cartItems: ArrayList<Cart> |

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| ORDERSSHELPER |
| * fp: FileHelper:     - json: Gson |
| + cartItems: ArrayList<Cart> |

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| PATHHELPER |
| + fileAbsPath: String    + imageAbsPath:String |

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| RUNTIMEHELPER |
| + loadItems(Parent p): void    + loadAdminItems(Parent p) : void    + loadItemsPartial(Parent p) : void  + loadIOrdersPartial(Parent p) : void    + loadItemsInCart(Parent p) : void    + searchItems(Parent p, List<String> res) : void  + loadOrders(Parent p) : void |

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| TIMEHELPER |
| - counter: int  - secCounter: int    - sec: int    - period: int    - secPeriod: int    - orderTime: int    - display: StringProperty    - orderId: int    - oh : OrdersHelper  - void minusHandler()  - void secHandler() |
| + TimeHelper(int orderTime1, StringProperty sp, int orderId1)  + createThreads() void |

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| USERHELPER |
| + getUsers():ArrayList<User>    + getCurrentUserId():int    + userExist(String email): boolean    + AddUser(User u) : void    + getUserByEmail(String email): User    + getUserByEmailType (String email, UserType utype): User    + loginUser(String email, String pword, UserType utype): boolean |

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| SCENESHANDLER |
| - login\_stage:Stage    - dashboard\_stage: Stage    - register\_stage: Stage    - item\_stage: Stage    - edit\_item\_stage: Stage    - alert\_stage: Stage    - cart\_stage: Stage    - customer\_stage: Stage  - setIcon(Stage s): void |
| + AlertStage(Stage s) : void    + CartStage(Stage s) : void    + getLoginStage()    + getDashboardStage(): Stage    + getCustomerStage(): Stage    + getRegisterStage(): Stage    + getItemStage(): Stage    + getEditItemStage(): Stage    + getAlertStage(): Stage    + getCartStage(): Stage |

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| ALERTDIALOGCONTROLLER |
| - result: Label  - alertError: StringProperty |
| + showError(String str): void |

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| CARTVIEWCONTROLLER |
| - total: Label    - taxes : Label    - grandtotal: Label    - orderitem: Button |
| + addOrder():void |

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| CUSTOMERDASHCONTROLLER |
| - username : Label    - usertype : Label    - cartcount : Label  - refreshBtn : Button    - cardadd : Button    - logout : ImageView    - searcharea : TextField    - viewcartitems : ImageView    - vpane : VBox    - tpane:TilePane    - error : SimpleStringProperty  - uNameBinder : SimpleStringProperty    - uTypeBinder : SimpleStringProperty |
| + customerDashIntProp: StringProperty  + setListeners():void  + viewcart():void    + signOff():void    + refreshScreen():void |