M02-A01 Project Module and API Design

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**Project:** Online Store Purchase

### CartManagement

| **CartManagement.model.Cart** |
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|  |
| LCOM4 = 1 |
| Most of the methods rely on A2 and A3, but M4 relies on A1. |

| **CartManagement.controller.CartController** | **CartManagement.view.CartContentsView** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| M1 requires A1 and A2 to work. | View requires JFrame and other swing components to work properly. |

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### OrderManagement

| **OrderManagement.model.Order** |
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|  |
| LCOM4 = 1 |
| Both methods rely on all the fields to fulfill their functionality |

| **OrderManagement.model.OrderStatusManager** | **OrderManagement.model.Shipping** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| M1, M2 and M3 require A1 to work. | M1 and M2 require A1, A2 and A3 for its logic. |

| **OrderManagement.controller.TrackOrderController** | **OrderManagement.controller.OrderController** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| M1 relies on A1 and A2 to work. | M1 requires A1 and A2 to work. |

| **OrderManagement.view.OrderConfirmedView** | **OrderManagement.view.OrderDetailView** | **OrderManagement.view.TrackOrderView** |
| --- | --- | --- |
|  |  |  |
| LCOM4 = 1 | LCOM4 = 1 | LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. | | |

### ProductManagement

| **ProductManagement.model.Product** |
| --- |
|  |
| LCOM4 = 1 |
| Both methods rely on all the fields to fulfill their functionality |

| **ProductManagement.model.Pricing** | **ProductManagement.model.Inventory** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| M1 & M2 require A1 to work. | M1, M2, & M3 rely on A1 and A2. |

| **ProductManagement.controller.ProductController** | **ProductManagement.controller.ViewProductDetailsController** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| M1 relies on A1 and A2 to work. | M1 requires A1 and A2 to work. |

| **ProductManagement.view.ProductPageView** | **ProductManagement.view.ProductListingView** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. | |

### TrackingManagement

| **TrackingManagement.model.Tracking** |
| --- |
|  |
| LCOM4 = 1 |
| M1 and M2 rely on A1, A2 and A3, and M3 relies on A2 and A3. |

| **TrackingManagement.controller.TrackingController** | **TrackingManagement.view.TrackingView** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| M1 requires A1 and A2 to work. | View requires JFrame and other swing components to work properly. |

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### PaymentManagement

| Payment |
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| LCOM4 = 1 |
| Both M1 and M2 depend on amountPaid and paymentOption. Both M2 and M1 depend on transactionDate. M3 depends on all attributes. |

| Payment Controller |
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|  |
| LCOM4 = 1 |
| Both M1 and M2 depend on paymentMode. Both M1 and M3 depend on paymentView. |

| Saved Payment |
| --- |
|  |
| LCOM4 = 1 |
| The constructor SavedPayment() depends on all attributes. |

| Payment View |
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|  |
| LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. |

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### UserManagement

| **UserManagement.model.UserAccount** |
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|  |
| LCOM4 = 1 |
| M1 requires A1, A2, A3 & A4 to work. M2 requires A4 to work. |

| **UserManagement.controller.UpdatePasswordController** | **UserManagement.controller.UserSessionController** |
| --- | --- |
|  |  |
| LCOM4 = 0 | LCOM4 = 0 |
| A1 has no methods. | A1 has no methods. |

| **UserManagement.view.AccessDeniedView** | **UserManagement.view.ProductDetailsView** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. | View requires JFrame and other swing components to work properly and do graphical displays. |

| **UserManagement.view.UpdatePasswordView** | **UserManagement.view.UserLoginView** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. | View requires JFrame and other swing components to work properly and do graphical displays. |

| **UserManagement.view.UserLogoutView** | **UserManagement.view.UserRegisterView** |
| --- | --- |
|  |  |
| LCOM4 = 1 | LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. | View requires JFrame and other swing components to work properly and do graphical displays. |

| **UserManagement.view.VerifyEmailView** |
| --- |
|  |
| LCOM4 = 1 |
| View requires JFrame and other swing components to work properly and do graphical displays. |

Team Lead:

| Team Lead ID + Name | Contribution in The Particular Assignment |
| --- | --- |
| nvl5303 + Nicole Leon | Tackled shipping and tracking management tools for user orders by defining appropriate models, views, and controllers for each use case. Aided with UserManagement API Design diagrams and LCOM4 scoring. |

Team Members:

| Team Member ID + Name | Contribution in The Particular Assignment |
| --- | --- |
| hmf5339 + Haley Fitzgerald | Created set of API Specifications for the use case view product details. Created Package ProductDetailManagement, class ViewProductDetailsController, class Product, and class ProductDetailsView. Filled out LCOM4 tables and diagrams for ProductDetailsView, ViewProductDetailsController, and Product. Also created all of the diagrams and tables for the views under user management. |
| ezy5092 + Emira Hanna Yahya | Stubbed out the attributes and behaviours for all the classes in CartManagement, OrderManagement, and helped organize the UserManagement Structure. Also helped write the model classes in ProductManagement, and consolidated them to fit with Haley’s work to reduce code redundancy. Created diagrams and tables for the classes in ProductManagement, CartManagement, OrderManagement, and TrackingManagement. |
| hlt5125 + Heaven Thomas | Aided in creation of MVC classes for purchasing products. Filled out LCOM4 tables and created diagrams for Payment Management (Payment, Payment Controller, Saved Payment, Payment View) |