C-UC1

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| **Responsibility Description** | | **Type** | | **Concept Name** |
| Form requesting whether the clerk change the order status. | | K | | AcceptRequest |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | D | | Controller |
| Authenticate whether the user’s role matches with the system’s required role. | | D | | AuthenticateUser |
| Form tracking order for maintaining log. | | K | | OrderLogRequest |
| Contact information of the order list who accepts complaints and requests for futher investigation. | | K | | Notifier |
| Connect to database for consistency. | | D | | DatabaseConnection |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | D | | PageMaker |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | K | | InterfacePage |
| Authenticate whether the user’s role matches with the system’s required role | | D | | RoleChecker |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | | K | | Role |
| **Concept pair** | **Association description** | | **Association name** | |
| AcceptRequest ↔ Controller | Controller receives AcceptRequest which contains order ID. | | Receives requests | |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | | Generate AuthenticateRequest | |
| Controller ↔ Role | Controller obtains Role of the Manager | | Obtains entity | |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | | Authenticate with entity | |
| Controller ↔ OrderLogRequest | Controller generates logs for maintaining. | | Generate Log | |
| DatabaseConnection ↔ Notifier | Contact information of the order list who accepts complaints and requests for futher investigation. | | Notify changes | |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | | Requests page | |
| DatabaseConnection ↔ PageMaker | Connection passes the retrieved sales list to PageMaker to render them for display | | Provides data | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | Prepares | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | Posts page | |

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| **Concept** | **Attributes** | **Attribute Description** |
| AuthenticateRequest | User’s identity | User’s identification information which used to retrieve role. |
| AcceptRequest | Order’s Identity | Order’s identification is used to determin which order’s status will change. |
| User’s identity | User’s identification information which is used to generate Authenticate Request. |
| OrderLogRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| Role | Clerk’s role | Clerk’s role according to its identification information. |

C-UC2

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| **Responsibility Description** | | | **Type** | **Concept Name** | |
| Form requesting whether the clerk change the order status. | | | K | CompleteRequest | |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | | D | Controller | |
| Authenticate whether the user’s role matches with the system’s required role. | | | D | RoleChecker | |
| Form requesting whether the user has the privilege to access. | | | K | AuthenticateRequest | |
| Form tracking order for maintaining log. | | | K | OrderLogRequest | |
| Contact information of the order list who accepts complaints and requests for futher investigation. | | | D | Notifier | |
| Connect to database for consistency. | | | D | DatabaseConnection | |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | | D | PageMaker | |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | | K | InterfacePage | |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | | | K | Role | |
| **Concept pair** | **Association description** | **Association name** | | |
| CompleteRequest ↔ Controller | Controller receives CompleteRequest which contains order ID. | Receives requests | | |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | Generate AuthenticateRequest | | |
| Controller ↔ Role | Controller obtains Role of the Manager | Obtains entity | | |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | Authenticate with entity | | |
| Controller ↔ OrderLogRequest | Controller generates logs for maintaining. | Generate Log | | |
| Notifier ↔ DatabaseConnection | Contact information of the order list who accepts complaints and requests for futher investigation. | Notify changes | | |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page | | |
| DatabaseConnection ↔ PageMaker | Connection passes the retrieved sales list to PageMaker to render them for display | Provides data | | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | Prepares | | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | Posts page | | |

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| **Concept** | **Attributes** | **Attribute Description** |
| AuthenticateRequest | User’s identity | User’s identification information which used to retrieve role. |
| CompleteRequest | Order’s Identity | Order’s identification is used to determin which order’s status will change. |
| User’s identity | User’s identification information which is used to generate Authenticate Request. |
| OrderLogRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| Role | Clerk’s role | Clerk’s role according to its identification information. |

C-UC3

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| **Responsibility Description** | | **Type** | | **Concept Name** |
| Form requesting whether the clerk change the order status. | | K | | CheckInvalidRequest |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | D | | Controller |
| Authenticate whether the user’s role matches with the system’s required role. | | D | | RoleChecker |
| Form requesting whether the user has the privilege to access. | | K | | AuthenticateRequest |
| Form tracking order for maintaining log. | | K | | OrderLogRequest |
| Contact information of the order list who accepts complaints and requests for futher investigation. | | D | | Notifier |
| Connect to database for consistency. | | D | | DatabaseConnection |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | D | | PageMaker |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | K | | InterfacePage |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | | K | | Role |
| **Concept pair** | **Association description** | | **Association name** | |
| CheckInvalidRequest↔ Controller | Controller receives CheckInvalidRequest which contains order ID. | | Receives requests | |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | | Generate AuthenticateRequest | |
| Controller ↔ Role | Controller obtains Role of the Manager | | Obtains entity | |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | | Authenticate with entity | |
| Controller ↔ OrderLogRequest | Controller generates logs for maintaining. | | Generate Log | |
| Notifier ↔ DatabaseConnection | Contact information of the order list who accepts complaints and requests for futher investigation. | | Notify changes | |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | | Requests page | |
| DatabaseConnection ↔ PageMaker | Connection passes the retrieved sales list to PageMaker to render them for display | | Provides data | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | Prepares | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | Posts page | |

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| **Concept** | **Attributes** | **Attribute Description** |
| AuthenticateRequest | User’s identity | User’s identification information which used to retrieve role. |
| CheckInvalidRequest | Order’s Identity | Order’s identification is used to determin which order’s status will change. |
| User’s identity | User’s identification information which is used to generate Authenticate Request. |
| OrderLogRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| Role | Clerk’s role | Clerk’s role according to its identification information. |

C-UC4

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| **Responsibility Description** | | **Type** | | **Concept Name** |
| Form requesting whether the delivery man change the order status. | | K | | AcceptDeliveryRequest |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | D | | Controller |
| Authenticate whether the user’s role matches with the system’s required role. | | D | | RoleChecker |
| Form requesting whether the user has the privilege to access. | | K | | AuthenticateRequest |
| Form tracking order for maintaining log. | | K | | OrderLogRequest |
| Contact information of the order list who accepts complaints and requests for futher investigation. | | D | | Notifier |
| Connect to database for consistency. | | D | | DatabaseConnection |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | D | | PageMaker |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | K | | InterfacePage |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | | K | | Role |
| **Concept pair** | **Association description** | | **Association name** | |
| AcceptDeliveryRequest ↔ Controller | Controller receives AcceptDeliveryRequest which contains order ID. | | Receives requests | |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | | Generate AuthenticateRequest | |
| Controller ↔ Role | Controller obtains Role of the Manager | | Obtains entity | |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | | Authenticate with entity | |
| Controller ↔ OrderLogRequest | Controller generates logs for maintaining. | | Generate Log | |
| Notifier ↔ DatabaseConnection | Contact information of the order list who accepts complaints and requests for futher investigation. | | Notify changes | |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | | Requests page | |
| DatabaseConnection ↔ PageMaker | Connection passes the retrieved sales list to PageMaker to render them for display | | Provides data | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | Prepares | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | Posts page | |

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| **Concept** | **Attributes** | **Attribute Description** |
| AuthenticateRequest | User’s identity | User’s identification information which used to retrieve role. |
| AcceptDeliveryRequest | Order’s Identity | Order’s identification is used to determin which order’s status will change. |
| User’s identity | User’s identification information which is used to generate Authenticate Request. |
| OrderLogRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| Role | Delivery man’s role | Clerk’s role according to its identification information. |

C-UC5

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| **Responsibility Description** | **Type** | **Concept Name** |
| Form requesting whether the delivery man change the order status. | K | CompleteDelivery |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Form tracking order for maintaining log. | K | OrderLogRequest |
| Contact information of the order list who accepts complaints and requests for futher investigation. | D | Notifier |
| Connect to database for consistency. | D | DatabaseConnection |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | K | Role |

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| **Concept pair** | **Association description** | **Association name** |
| CompleteDeliveryRequest ↔ Controller | Controller receives CompleteDeliveryRequest which contains order ID. | Receives requests |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | Generate AuthenticateRequest |
| Controller ↔ Role | Controller obtains Role of the Manager | Obtains entity |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | Authenticate with entity |
| Controller ↔ OrderLogRequest | Controller generates logs for maintaining. | Generate Log |
| Notifier ↔ DatabaseConnection | Contact information of the order list who accepts complaints and requests for futher investigation. | Notify changes |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| DatabaseConnection ↔ PageMaker | Connection passes the retrieved sales list to PageMaker to render them for display | Provides data |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | Prepares |
| Controller ↔ InterfacePage | Controller posts InterfacePage | Posts page |

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| **Concept** | **Attributes** | **Attribute Description** |
| AuthenticateRequest | User’s identity | User’s identification information which used to retrieve role. |
| CompleteDeliveryRequest | Order’s Identity | Order’s identification is used to determine which order’s status will change. |
| User’s identity | User’s identification information which is used to generate Authenticate Request. |
| OrderLogRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| Role | Clerk’s role | Clerk’s role according to its identification information. |

C-UC6

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| **Responsibility Description** | | **Type** | | **Concept Name** |
| Form requesting log to track order. | | K | | OrderLogRequest |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | D | | Controller |
| Form requesting log to track order with lastUpdateTime. | | K | | UpdatingRequest |
| Connect to database for consistency. | | D | | DatabaseConnection |
| **Concept pair** | **Association description** | | **Association name** | |
| OrderLogRequest ↔ Controller | Controller receives UpdateRequest which contains order ID and user ID. | | Receives requests | |
| Controller ↔ UpdatingRequest | Controller generate UpdatingRequest for tracking order. | | Generate | |
| UpdatingRequest ↔ DatabaseConnection | Connection receive UpdatingRequest | | Conveys requests | |

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| **Concept** | **Attributes** | **Attribute Description** |
| OrderLogRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| UpdatingRequest | Order’s Identity | Order’s identification is used to determin which will be tracked by OrderTracker. |
| Last updated Time | Last updated Time is generated by system.  Last updated Time is current time in passing controller. |

C-UC7

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| **Responsibility Description** | | **Type** | | **Concept Name** |
| Form requesting to logout, which contains userKey. | | K | | logoutRequest |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | K | | InterfacePage |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | D | | Controller |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | D | | PageMaker |
| Form requesting whether the user has the privilege to access. | | K | | AuthenticateRequest |
| ExpireRequest contains expired user key to authenticated user. | | K | | ExpireRequest |
| Authenticate whether the user’s role matches with the system’s required role. | | D | | RoleChecker |
| Expire user and invalidate all certification  contains userKey. | | D | | Expire User |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | | K | | Role |
| **Concept pair** | **Association description** | | **Association name** | |
| LogoutRequest ↔ Controller | Controller receives LogoutRequest which contains order ID. | | Receives requests | |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | | Generate AuthenticateRequest | |
| Controller ↔ Role | Controller obtains Role of the Manager | | Obtains entity | |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | | Authenticate with entity | |
| ExpireUser ↔ ExpireRequest | ExpireUser receives ExpireRequest to expire specific user, which contains userID. | | Expire User | |
| Controller ↔ ExpireRequest | Controller generates ExpireRequest to pass Authenticator | | Generate ExpireRequest | |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | | Requests page | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | Prepares | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | Posts page | |

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| **Concept** | **Attributes** | **Attribute Description** |
| logoutRequest | User’s identity | User’s identification information which of user will be logout. |
| AuthenticateRequest | User’s identity | User’s identification information which used to retrieve role. |
| ExpireRequest | User’s identity | User’s identification information which of user will be logout. |
| Role | User’s role | Clerk’s role according to its identification information. |

C-UC8

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| **Responsibility Description** | **Type** | **Concept Name** |
| Form requesting to logout, which contains user information. | K | signupRequest |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form for signup Info, which contains id, pw, email, address and phone number. | K | signupInfo |
| Register User to authenticator for after login. | D | RegisterUser |

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| **Concept pair** | **Association description** | **Association name** |
| SignupRequest ↔ Controller | Controller receives SignupRequest which contains user information. | Receives requests |
| Controller ↔ SignupInfo | Controller generates SignupInfo which contains id, pw, email, address and phone number. | Generate SignUpInfo |
| SignupInfo ↔ RegisterUser | RegisterUser recieves SignupInfo. | Register User |
| Controller ↔ PageMaker | Controller posts InterfacePage | Requests page |
| Controller ↔ Interface Page | Controller posts InterfacePage | Posts page |

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| **Concept** | **Attributes** | **Attribute Description** |
| SignupRequest | User’s Id | User’s Id for next login. |
| User’s Password | User’s Password for next login. It does not encrypted. |
| User’s Email | User’s Email is used in reset password step. |
| User’s Address | User’s Address is used in order step. |
| User’s PhoneNumber | User’s PhoneNumber is provided to delivery man. |
| SignupInfo | User’s Id | User’s Id for next login. It is unique. |
| User’s Password | User’s Password for next login. It does not encrypted. It contains at least one number, upper/lower case and special character. |
| User’s Email | User’s Email is used in reset password step. |
| User’s Address | User’s Address is used in order step. |
| User’s PhoneNumber | User’s PhoneNumber is provided to delivery man. |

C-UC9

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| **Responsibility Description** | | | | **Type** | | **Concept Name** |
| Form requesting to userinfo, which contains userKey to authenticate user. | | | | K | | UserInfoRequest |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | | | K | | InterfacePage |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | | | D | | Controller |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | | | D | | PageMaker |
| Form requesting whether the user has the privilege to access. | | | | K | | AuthenticateRequest |
| Form requesting to userinfo, | | | | K | | OrdererInfoRequest |
| Authenticate whether the user’s role matches with the system’s required role. | | | | D | | RoleChecker |
| Connect to database for consistency. | | | | D | | DatabaseConnection |
| Container for user’s role data, such as manager, ordrer, clerk, delivery man | | | | K | | Role |
| **Concept pair** | **Association description** | | | | **Association name** | |
| UserInfoRequest ↔ Controller | Controller receives UserInfoRequest which contains user information. | | | | Receives requests | |
| Controller ↔ AuthenticateRequest | Controller generates AuthenticateRequest which contains userKey. | | | | Generate AuthenticateRequest | |
| Controller ↔ Role | Controller obtains Role of the Manager | | | | Obtains entity | |
| RolerChecker ↔ Role | RoleChecker authenticates with the Role | | | | Authenticate with entity | |
| Controller ↔ OrderInfoRequest | Controller generates ExpireRequest to pass Authenticator | | | | Generate OrderInfoRequest | |
| OrderInfoRequest ↔ DatabaseConnection | Controller requests for page to display to PageMaker and receives back the prepared page. | | | | Requests page | |
| DatabaseConnection ↔ PageMaker | Connection passes the retrieved sales list to PageMaker to render them for display | | | | Provides data | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | | | Prepares | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | | | Posts page | |
| **Concept** | | **Attributes** | **Attribute Description** | | | |
| AuthenticateRequest | | User’s identity | User’s identification information which used to retrieve role. | | | |
| RequestUserInfo | | User’s identity | User’s identification information which used to retrieve role. | | | |
| UserInfoRequest | | User’s identity | User’s identification information which used to retrieve role. | | | |
| Role | | User’s role | Clerk’s role according to its identification information. | | | |

C-UC10

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| **Responsibility Description** | | **Type** | | **Concept Name** |
| Form requesting to OrderList(which of status is “accepted” and “complete”). | | K | | UpdateRequest |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | D | | Controller |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | D | | PageMaker |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | K | | InterfacePage |
| **Concept pair** | **Association description** | | **Association name** | |
| UpdateRequest ↔ Controller | Controller receives UserInfoRequest which contains order list. | | Receives requests | |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | Posts page | |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | | Requests page | |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | Prepares | |

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| **Concept** | **Attributes** | **Attribute Description** |
| UpdateRequest | OrderList | OrderList will show on screen. |

C-UC11

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| **Responsibility Description** | | | | **Type** | **Concept Name** | |
| Form requesting to login, which contains ID and PW. | | | | K | loginRequest | |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | | | | K | InterfacePage | |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | | | | D | Controller | |
| Render the menu list into an HTML document for sending to actor’s Web browser for display. | | | | D | PageMaker | |
| Form contains constraint user id and password. The password is encrypted. | | | | K | validateRequest | |
| Form requesting whether the user has the privilege to access. | | | | K | Certification | |
| ValidateUserInfo published certification for next authentication. | | | | D | ValidateUserInfo | |
| **Concept pair** | **Association description** | | | | | **Association name** |
| LoginRequest ↔ Controller | Controller receives LoginRequest which contains order list. | | | | | Receives requests |
| Controller ↔ validateRequest | Controller generates validateRequest which contains userId and userPassword. | | | | | Generate validateRequest |
| ValidateRequest ↔ validateUserInfo | ValidateUserInfo receives validateRequest which contains userId and userPassword. | | | | | Validate UserInfo |
| ValidateUserInfo ↔ Certification | ValidateUserInfo generated userKey which contains userKey. | | | | | Generate Certification |
| Certification  ↔ Controller | Controller recieve certification from validateUserInfo. | | | | | Provides data |
| Controller ↔ PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | | | | | Requests page |
| Controller ↔ InterfacePage | Controller posts InterfacePage | | | | | Posts page |
| PageMaker ↔ InterfacePage | PageMaker prepares the InterfacePage. | | | | | Prepares |
| **Concept** | | **Attributes** | **Attribute Description** | | | |
| Certification | | User’s identity | User’s identification information which used to retrieve role.  It can transform to AuthenticateRequest. | | | |
| validateRequest | | User’s Id |  | | | |
| User’s Password | User’s password is encrypted in validateRequest. | | | |
| loginRequest | | User’s Id | User’s Id | | | |
| User’s Password | User’s password is not encrypted in LoginRequest. | | | |