UC-2 ManageMenus

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| 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 for applying modified data by the option(add, update, delete) manager selected. | K | ManageRequest |
| Retrieve menu list from Menulist or request for applying the modified data to Menulist.. | D | MenuConnection |
| Send request for applying modified data to menu list. | D | ManageMenuOperator |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |

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| **Concept pair** | **Association description** | **Association name** |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->ManageRequest | Controller receives ManageRequest which contains Option parameter and Modified data. | Receives requests |
| Controller<->PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| Controller<->InterfacePage | Controller posts InterfacePage containing menu list | Posts page |
| PageMaker<->  MenuConnection | PageMaker requests MenuConnection to post menu list. | Requests data |
| Page Maker<->  InterfacePage | PageMaker prepares the InterfacePage. | Prepares |
| Controller<->  ManageMenuOperator | Controller passes ManageRequests to ManageMenu  Operator. | Conveys requests |
| ManageMenuOperator<->MenuConnection | ManageMenuOperator requests MenuConnection to apply the modified data of menu list | Requests apply |

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| Concept | Attributes | Attribute Description |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| ManageRequest | Option parameter | Add, Update, Delete |
| Modified data | Modified data of menu list by the option(add, update, delete). |

UC-3 AddMenu

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render text blanks into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form requesting for adding data that manager entered on the blanks. | K | AddRequest |
| Send request for adding the data to Menulist. | D | AddMenuOperator |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Prepare a query that matches the actor’s request or retireve menu list from Menulist. | D | MenuConnection |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |
| Form requesting for redirect to Menulist. | K | RedirectRequest |

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| **Concept pair** | **Association description** | **Association name** |
| 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<->  AddMenuOperator | Controller passes AddRequests to AddMenuOperator. | Conveys requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->AddRequest | Controller receives AddRequest which contains added data. | Receives requests |
| Controller<->InterfacePage | Controller posts InterfacePage containing menu list | Posts page |
| PageMaker<->  MenuConnection | PageMaker requests MenuConnection to post menu list. | Requests data |
| AddMenuOperator<->MenuConnection | AddMenuOperator requests MenuConnection to apply the added data of menu list | Requests apply |
| AddMenuOperator<->RedirectRequest | AddMenuOperator generates RedirectRequest | Generates |
| RedirectRequest<->PageMaker | RedirectRequest requests PageMaker to remake page | Requests remake |

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| Concept | Attributes | Attribute Description |
| AddRequest | Entered data | Data of menu information entered by manager. |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| RedirectRequest | What to draw | Data of page information what to draw. |

UC-4 UpdateMenu

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render text blanks into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form requesting for updating data that manager edits. | K | UpdateRequest |
| Form requesting for information of particular menu. | K | MenuInformationRequest |
| Send request for updating the data to Menulist. | D | UpdateMenuOperator |
| Prepare a query that matches the actor’s request or retrieve menu list from Menulist. | D | MenuConnection |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |
| Form requesting for redirect to Menulist. | K | RedirectRequest |

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| **Concept pair** | **Association description** | **Association name** |
| 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<->  UpdateMenuOperator | Controller passes UpdateRequests to UpdateMenuOperator. | Conveys requests |
| Controller<->MenuConnection | Controller passes MenuInformationRequest to MenuConnection. | Conveys requests |
| MenuConnection<->PageMaker | MenuConnection provides menu data to PageMaker. | Provides data |
| Controller<->MenuInformationRequest | Controller receives MenuInformationRequest. | Receives requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->UpdateRequest | Controller receives UpdateRequest which contains edited data. | Receives requests |
| Controller<->InterfacePage | Controller posts InterfacePage containing menu list | Posts page |
| PageMaker<->  MenuConnection | PageMaker requests MenuConnection to post menu list. | Requests data |
| UpdateMenuOperator<->MenuConnection | UpdateMenuOperator requests MenuConnection to apply the edited data of menu list | Requests apply |
| UpdateMenuOperator<->RedirectRequest | UpdateMenuOperator generates RedirectRequest | Generates |
| RedirectRequest<->PageMaker | RedirectRequest requests PageMaker to remake page | Requests remake |

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| Concept | Attributes | Attribute Description |
| UpdateRequest | Edited data | Data of menu information edited by manager. |
| MenuInformationRequest | Menu ID | ID of menu that manager clicked for editing. |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| RedirectRequest | What to draw | Data of page information what to draw. |

UC-5 DeleteMenu

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render text blanks into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form requesting for deleting menu item manager selected. | K | DeleteRequest |
| Send request for deleting the data to Menulist. | D | DeleteMenuOperator |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Prepare a query that matches the actor’s request or retrieve the menu list from Menulist. | D | MenuConnection |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |
| Form requesting for refresh page. | K | RefreshRequest |

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| **Concept pair** | **Association description** | **Association name** |
| 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<->  DeleteMenuOperator | Controller passes DeleteRequests to DeleteMenuOperator. | Conveys requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->DeleteRequest | Controller receives DeleteRequest which contains deleting data. | Receives requests |
| Controller<->InterfacePage | Controller posts InterfacePage containing menu list | Posts page |
| PageMaker<->  MenuConnection | PageMaker requests MenuConnection to post menu list. | Requests data |
| DeleteMenuOperator<->MenuConnection | DeleteMenuOperator requests MenuConnection to apply the deleted data of menu list | Requests apply |
| DeleteMenuOperator<->RefreshRequest | DeleteMenuOperator generates RefreshRequest | Generates |
| RefreshRequest<->PageMaker | RefreshRequest requests PageMaker to remake page | Requests remake |

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| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| DeleteRequest | Menu ID | ID of menu that manager selected to delete. |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| RefreshRequest | What to draw | Data of page information what to draw. |

UC-6 ManageUsers

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render the user 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 for applying modified data by the option(add, update, delete) user selected. | K | ManageRequest |
| Prepare a query that matches the actor’s request or retrieve the data from User. | D | UserConnection |
| Send request for applying modified data to user list. | D | ManageUserOperator |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |

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| **Concept pair** | **Association description** | **Association name** |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->ManageRequest | Controller receives ManageRequest which contains Option parameter and Modified data. | Receives requests |
| Controller<->PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| Controller<->InterfacePage | Controller posts InterfacePage containing user list | Posts page |
| PageMaker<->  UserConnection | PageMaker requests UserConnection to post user list. | Requests data |
| Page Maker<->  InterfacePage | PageMaker prepares the InterfacePage. | Prepares |
| Controller<->  ManageUserOperator | Controller passes manage requests to ManageUser Operator. | Conveys requests |
| ManageUserOperator<->UserConnection | ManageUserOperator requests UserConnection to apply the modified data of user list | Requests apply |

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| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| ManageRequest | Option parameter | Add, Update, Delete |
| Modified data | Modified data of user list by the option(add, update, delete). |

UC-7 AddUser

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render text blanks into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form requesting for adding data that manager entered on the blanks. | K | AddRequest |
| Send request for adding the data to Userlist. | D | AddUserOperator |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Prepare a query that matches the actor’s request or retrieve the data from User. | D | UserConnection |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |
| Form requesting for redirect to Userlist. | K | RedirectRequest |

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| **Concept pair** | **Association description** | **Association name** |
| 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<->  AddUserOperator | Controller passes AddRequests to AddUserOperator. | Conveys requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->AddRequest | Controller receives AddRequest which contains added data. | Receives requests |
| Controller<->InterfacePage | Controller posts InterfacePage containing user list | Posts page |
| PageMaker<->  UserConnection | PageMaker requests UserConnection to post user list. | Requests data |
| AddUserOperator<->UserConnection | AddUserOperator requests UserConnection to apply the added data of user list | Requests apply |
| AddUserOperator<->RedirectRequest | AddUserOperator generates RedirectRequest | Generates |
| RedirectRequest<->PageMaker | RedirectRequest requests PageMaker to remake page | Requests remake |

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| AddRequest | Entered data | Data of user information entered by manager. |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| RedirectRequest | What to draw | Data of page information what to draw. |

UC-8 UpdateUser

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| --- | --- | --- |
| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render text blanks into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form requesting for updating data that manager edits. | K | UpdateRequest |
| Form requesting for information of particular user. | K | UserInformationRequest |
| Send request for updating the data to Userlist. | D | UpdateUserOperator |
| Prepare a query that matches the actor’s request or retrieve the data from User. | D | UserConnection |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |
| Form requesting for redirect to Userlist. | K | RedirectRequest |

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| **Concept pair** | **Association description** | **Association name** |
| Controller<->PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| PageMaker<->  InterfacePage | Page Maker prepares the InterfacePage. | Prepares |
| Controller<->  UpdateUserOperator | Controller passes Update requests to UpdateUserOperator. | Conveys requests |
| Controller<->UserConnection | Controller passes UserInformationRequest to UserConnection. | Conveys requests |
| UserConnection<->PageMaker | UserConnection provides user data to PageMaker. | Provides data |
| Controller<->UserInformationRequest | Controller receives UserInformationRequest. | Receives requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->UpdateRequest | Controller receives UpdateRequest which contains edited data. | Receives requests |
| Controller<->InterfacePage | Controller posts InterfacePage containing user list | Posts page |
| PageMaker<->  UserConnection | PageMaker requests UserConnection to post user list. | Requests data |
| UpdateUserOperator<->UserConnection | UpdateUserOperator requests UserConnection to apply the edited data of user list | Requests apply |
| UpdateUserOperator<->RedirectRequest | UpdateUserOperator generates RedirectRequest | Generates |
| RedirectRequest<->PageMaker | RedirectRequest requests PageMaker to remake page | Requests remake |

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| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| UpdateRequest | Edited data | Data of user information edited by manager. |
| UserInformationRequest | User ID | ID of user that manager clicked for editing. |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| RedirectRequest | What to draw | Data of page information what to draw. |

UC-9 DeleteUser

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| --- | --- | --- |
| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| Render text blanks into an HTML document for sending to actor’s Web browser for display. | D | PageMaker |
| Form requesting for deleting user item manager selected. | K | DeleteRequest |
| Send request for deleting the data to Userlist. | D | DeleteUserOperator |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Prepare a query that matches the actor’s request or retrieve the data from User. | D | UserConnection |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |
| Form requesting for refresh page. | K | RefreshRequest |

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| **Concept pair** | **Association description** | **Association name** |
| 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<->  DeleteUserOperator | Controller passes DeleteRequests to DeleteUserOperator. | Conveys requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | Role checker authenticates with the Role | Authenticate with entity |
| Controller<->DeleteRequest | Controller receives DeleteRequest which contains deleting data. | Receives requests |
| Controller<->InterfacePage | Controller posts InterfacePage containing user list | Posts page |
| PageMaker<->  UserConnection | PageMaker requests UserConnection to post user list. | Requests data |
| DeleteUserOperator<->UserConnection | DeleteUserOperator requests UserConnection to apply the deleted data of user list | Requests apply |
| DeleteUserOperator<->RefreshRequest | DeleteUserOperator generates RefreshRequest | Generates |
| RefreshRequest<->PageMaker | RefreshRequest requests PageMaker to remake page | Requests remake |

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| DeleteRequest | User ID | ID of user that manager selected to delete. |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| RefreshRequest | What to draw | Data of page information what to draw. |

UC-10 DisplaySales

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| 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 specifying the search parameters for sales list retrieval | K | SearchRequest |
| Retrieve the sales list that matches the actor’s search criteria from Orderlist. | D | OrderlistConnection |
| Send request for retrieving the sales list from Orderlist. | D | DisplaySalesOperator |
| Authenticate whether the user’s role matches with the system’s required role | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |

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| **Concept pair** | **Association description** | **Association name** |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | RoleChecker authenticates with the Role | Authenticate with entity |
| Controller<->SearchRequest | Controller receives SearchRequest which contains search parameters. | Receives requests |
| Controller<->PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| Controller<->InterfacePage | Controller posts InterfacePage containing sales list. | Posts page |
| PageMaker<->  OrderlistConnection | Orderlist passes the retrieved sales list to PageMaker to render them for display | Provides data |
| PageMaker<->  InterfacePage | PageMaker prepares the InterfacePage. | Prepares |
| Controller<->  DisplaySalesOperator | Controller passes SearchRequest to DisplaySalesOperator.. | Conveys requests |
| DisplaySalesOperator<->OrderlistConnection | DisplaySalesOperator requests for retrieving sales list that matches manager’s search parameters to OrderlistConnection | Requests retrieve |

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| Concept | Attributes | Attribute Description |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| SearchRequest | Search parameters | Start date, end date, menu |

UC-11 DisplayByPizza

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| 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 sales list of selected menu. | K | BypizzaRequest |
| Retrieve the sales list that matches the actor’s search criteria from Orderlist. | D | OrderlistConnection |
| Send request for retrieving the sales list of selected pizza from Orderlist. | D | DisplayByPizzaOperator |
| Authenticate whether the user’s role matches with the system’s required role | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |

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| **Concept pair** | **Association description** | **Association name** |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | RoleChecker authenticates with the Role | Authenticate with entity |
| Controller<->ByPizzaRequest | Controller receives ByPizzaRequest which contains search parameters. | Receives requests |
| Controller<->PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| Controller<->InterfacePage | Controller posts InterfacePage containing sales list. | Posts page |
| PageMaker<->  OrderlistConnection | Orderlist passes the retrieved sales list to PageMaker to render them for display | Provides data |
| PageMaker<->  InterfacePage | PageMaker prepares the InterfacePage. | Prepares |
| Controller<->  DisplayByPizzaOperator | Controller passes ByPizzaRequest to DisplayByPizzaOperator.. | Conveys requests |
| DisplayByPizzaOperator<->OrderlistConnection | DisplayByPizzaOperator requests for retrieving sales list of menu manager selected to OrderlistConnection | Requests retrieve |

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| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| BypizzaRequest | Menu ID | Menu ID for retrieving sales list of the menu. |

UC-12 DisplayByPeriod

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| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| HTML document that shows the actor the current context, what actions can be done, and outcomes of the previous actions. | K | InterfacePage |
| 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 sales list of specific period. | K | ByperiodRequest |
| Retrieve the sales list that matches the actor’s search criteria from Orderlist. | D | OrderlistConnection |
| Send request for retrieving the sales list of specific period from Orderlist. | D | DisplayByPeriodOperator |
| Authenticate whether the user’s role matches with the system’s required role | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |

|  |  |  |
| --- | --- | --- |
| **Concept pair** | **Association description** | **Association name** |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | RoleChecker authenticates with the Role | Authenticate with entity |
| Controller<->ByPeriodRequest | Controller receives ByPeriodRequest which contains search parameters. | Receives requests |
| Controller<->PageMaker | Controller requests for page to display to PageMaker and receives back the prepared page. | Requests page |
| Controller<->InterfacePage | Controller posts InterfacePage containing sales list. | Posts page |
| PageMaker<->  OrderlistConnection | Orderlist passes the retrieved sales list to PageMaker to render them for display | Provides data |
| PageMaker<->  InterfacePage | PageMaker prepares the InterfacePage. | Prepares |
| Controller<->  DisplayByPeriodOperator | Controller passes ByPeriodRequest to DisplayByPeriodOperator.. | Conveys requests |
| DisplayByPeriodOperator<->OrderlistConnection | DisplayByPeriodOperator requests for retrieving sales list of specific period to OrderlistConnection | Requests retrieve |

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| ByperiodRequest | Period parameters | Start date and end date that user entered for retrieving sales list between that dates. |

UC-13 SwitchOpening

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| --- | --- | --- |
| **Responsibility Description** | **Type** | **Concept Name** |
| Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| Form requesting for switching state of store. | K | SwitchRequest |
| Switch state of store. | D | SwitchOperator |
| Form requesting whether the user has the privilege to access. | K | AuthenticateRequest |
| Authenticate whether the user’s role matches with the system’s required role. | D | RoleChecker |
| Container for user’s role data, such as manager, orderer, clerk, delivery man | K | Role |

|  |  |  |
| --- | --- | --- |
| **Concept pair** | **Association description** | **Association name** |
| Controller<->  SwitchOperator | Controller passes SwitchRequest to SwitchOperator. | Conveys requests |
| Controller<->RoleChecker | Controller passes requests to RoleChecker and receives back whether the user has the privilege to access. | Conveys requests |
| Controller<->AuthenticateRequest | Controller receives AuthenticationRequest which contains Manager’s identification information. | Receives requests |
| Controller<->Role | Controller obtains Role of the Manager | Obtains entity |
| RoleChecker<->Role | RoleChecker authenticates with the Role | Authenticate with entity |
| Controller<->SwitchRequest | Controller receives SwitchRequest. | Receives requests |

|  |  |  |
| --- | --- | --- |
| Concept | Attributes | Attribute Description |
| AuthenticateRequest | Manager’s identity | Manager’s identification information which used to retrieve role. |
| Role | Manager’s role | Manager’s role according to its identification information. |
| SwitchOperator | state | State of store(opened, closed) |