|  |  |  |
| --- | --- | --- |
| **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 |

|  |  |  |
| --- | --- | --- |
| **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 |

|  |  |  |
| --- | --- | --- |
| 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. |