# 6.3 C&C views of Personal Information Manager Component

# 6.3.1 Primary Presentation

 **Figure 6.1.3 C&C view of the Personal Information Manager component**

The fig 6.1.3 depicts the decomposition of component Personal Information Manager. The rationale for this decomposition is to further divide this component into four sub-components by separating the concerns based on high-level functional requirement. This decomposition will allow to add new functions easily depend on the kind of new functions. This decomposition is also promote the concurrent communication. The Detail Information Manager is responsible for add/edit the data of VLU employee, and the other component such as Income Manager, Extend Information Manager and Training Manager will read these employee data in database via WCF Client without calling the Detail Information Manager, thus eliminating the concurrent data access.

# Element catalog

Following table describes responsibilities of the different element

|  |  |
| --- | --- |
| **Component** | **Responsibility** |
| Detail Information Manager | This component which is responsible for:   * Show the employee information * Allow user to edit/ add/ delete information * Import the employee information by reading the import file (.xml) * Export the employee information to Excel file   This component will use the Model component instead of directly calling the employee entity from database server. This component will also call the services to implement user actions. |
| Income Manager | This component which is responsible for:   * Show the employee income information * Allow user to edit/ add/ delete income information   This component will use the Model component instead of directly calling the employee income entity from database server. This component will also call the services to implement user actions.  This component will call the services of Detail Information Manager component to get the list of employee before starting to modify the income info of selected employee. |
| Training Manager | This component which is responsible for:   * Show the employee training information * Allow user to edit/ add/ delete training information   This component will use the Model component instead of directly calling the employee training entity from database server. This component will also call the services to implement user actions.  This component will call the services of Detail Information Manager component to get the list of employee before starting to modify the training info of selected employee. |
| Extend Information Manager | This component which is responsible for:   * Show the employee extend information (supported people, reward, penalty, position … ) * Allow user to edit/ add/ delete extend information   This component will use the Model component instead of directly calling the employee training entity from database server. This component will also call the services to implement user actions.  This component will call the services of Detail Information Manager component to get the list of employee before starting to modify the extended info of selected employee. |

Following table describes connector used

|  |  |
| --- | --- |
| **Connector** | **Purpose** |
| FileReadWriteConnT | This connector allows a “user” role to read from or write to a disk file. |
| CallReturnConnT | Caller calls a certain method of callee and callee performs the requested operation and returns the result back to the caller. |
| WebServiceCallReturnConn | This connector represents a web service call made by a caller to a callee. The information is transferred over http(s) connection. |