**Component and Connector View**

1. **Primary presentation:**



1. **Element catalog:**
2. Elements and their properties

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| --- | --- | --- |
| Elements | | Properties |
| Database Server | Head Office DB Server | Database server which locates at Head Office is responsible for store data such as sales data, user data, customer data, store data, product data, and category data. This is where Head Office PC gets data to perform statistical analysis. |
| Client DB Server | Database server which locates at POS terminal and responsible for store data of stores such as product cost, user information and bill detail. It also is an reserved database server, store as much as possible data when Head Office server are going down or connect problem happen. |
| User Interface | Customer Interface | This interface use for customer to check their information, it will be set up on touch screen at stores. | |
| Cashier Interface | This interface use for cashier to perform sales activities and allow cashier interact with product and loyal point information. | |
| Administrator Interface | This interface use for administrator to perform system operating action. It allow administrator have authorities at user account and synchronize data. | |
| Staff Interface | This interface use for staff to manages information about customer category, product. It also allows staff gets data from system and performs statistical analysis. | |
| Filter | Loyal Point | This function allow user view customer loyal point. | |
| Sale | All function relate to sale activities which perform by cashier | |
| Category | Contain functions such as view, add, update and remove category supports staff performs manage activities. | |
| Product | Contain functions such as view, add, update and remove product supports staff performs manage activities. | |
| Synchronize data | These functions contain set time for auto synchronize activities or manually synchronize | |
| Statistical analysis | Use by staff to collect sales data and generates analysis for demand | |
| User account | Use by administrator, contain add, update information of system users | |
| Customer | Use by administrator, contain add, update information of system customers. | |

1. Relations and their properties

|  |  |
| --- | --- |
| Connector | Properties |
| Pipe | A kind connector in Dataflow Style that conveys data from a filter’s output ports to another filter’s input ports. A pipe has a single data-in and a single data-out role, preserves the sequence of data items, and does not alter the data passing through. |
| Replication | This connector show that the synchronize protocol will be used here to make sure data between database servers was synched |
| Read Data | Present that data was read at the filter which connected with this connector. |
| Write Data | Present that data can be write into the filter which connected with this connector. |
| Reserve | This connector will be active to replace the “read and write data” connector in case the Head server going down or the disconnect between store and Head Office happen |

1. Element behavior
2. **Context diagram:**



1. **Architecture background:**

Explain the reason that we designed. It does include:

1. Rationale design
2. Analysis of results
3. Assumptions reflected in the design
4. **Glossary of terms:**

A brief description about glossary of terms used in the views

1. **Other information:**

Contents of this section will vary according to the standard practices of your organization. So it can:

* Management information such as authorship
* Configuration control data,

Change histories or use to record references to specific sections of a requirements document to establish traceability. Strictly speaking, information such as this is not architectural