|  |  |  |
| --- | --- | --- |
| Object | 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. **Architecture background:**

Explain the reason that we designed. It does include:

1. Rationale design

The system includes 2 Database Server located in Head Office and Store and application uses data from these servers for sales activities as well as data storage. So in this architecture will use the Call-Return Styles, include Client-Server style and a Call-return style that objects call other objects referred to other data and wait for the return data from them. The called object will be call data from repository use Client-server styles. They will send request to database server and wait for the reply from them.

1. Analysis of results
2. Assumptions reflected in the design

There will have reserve database server in store, which is responsible for storing product information daily and sales information to sync up to Head Office server and performing the redundancy while Head Office server going down.

1. **Glossary of terms:**

**DB Server:** Database Server is a computer program that provides database services to other computer programs or computers.

**POS Terminal:** A point-of-sale terminal is a computerized replacement for a cash register.