Purchase Department:

Type: tread.

Generated from: master Function.

Fall protection: back up of budget within mnesia as well as the dictionary of masterFunction thread (we assume that one computer is fail-safe), globally registered with spawn monitor with masterFunction.

Functionality:

Additional functionality: updates ErlMarket budget upon payment of a customer at cashierServer module (via RPC).

Department:

Type: gen-server behavior.

Generated From: master Function

Fall protection: static data base is driven from the Inventory module in mnesia using QLC question for retrieving the data. Dynamic data base is stored locally in mnesia. Globally registered using spawn monitor with masterFunction.

Functionality:

Serve Flow:

1. Customer Serve
2. Purchase department serve :
3. Purchase department serve – add new products
4. Cashier Server Serve
5. Optional – Serve Suppliers for sales.