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| --- | --- | --- |
| **Use Case Name** | | **Warehouse outbound** |
| Description | | Insert warehouse outbound records |
| Data Involved | | Batch No., Date, Goods Name, Quantity, Unit Price |
| Precondition | | Login |
| Flow of Events | Basic Path | (1) User input the data needed |
| (2)Valid the quantity is not greater than in database, otherwise go to E1 |
| (3)Update database |
| (4) Inform user operation is done |
| (5)Judge whether the current quantity in database after this operation is less than the warning of depletion, if it is release the warn of depletion. |
| Alternate Path | Null |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **Issue Stock-up Request** |
| Description | | Insert warehouse outbound records |
| Data Involved | | Batch No., Goods Name, Quantity, |
| Precondition | | UC[Warehouse outbound]->Basic Path(5) |
| Flow of Events | Basic Path | Use messageBox to release the warn of Depletion with the goods info and issue Stock-up Requset |
| Alternate Path | Null |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Warehouse Inbound** |
| Description | | Insert warehouse outbound records |
| Data Involved | | Batch No., Date, Goods Name, Quantity, Unit Price,  Expired Date |
| Precondition | | Login |
| Flow of Events | Basic Path | (1) User input the data needed |
| (2)Valid the Quantity is not less than zero otherwise go to E1 |
| (3)Update database |
| (4) Inform user operation is done |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **View Goods Info** |
| Description | | Select all the records from database and display them to user |
| Data Involved | | Batch No., Date, Goods Name, Quantity, Unit Price,  Expired Date |
| Precondition | | Login |
| Flow of Events | Basic Path | (1) Select all the records from database after login successfully |
| (2) Bind the widget with the data |
| Alternate Path | Null |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Add new Goods** |
| Description | | Insert a new goods record into database |
| Data Involved | | Goods Name, Depletion Threhold, Category Name |
| Precondition | | Login |
| Flow of Events | Basic Path | (1) User input the data needed |
| (2)Update database |
| (3) Inform user operation is done |
| Alternate Path | Null. |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Set Expiry Time** |
| Description | | Set the expiry time for goods |
| Data Involved | | Expiry Time |
| Precondition | | UC[Warehouse Inbound]->Basic Path(1) |
| Flow of Events | Basic Path | (1) valid the expiry time inputted is not less than the current date, otherwise go to E1 |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **Select Category** |
| Description | | Set Category name when it is needed |
| Data Involved | | Category Name |
| Precondition | | Null. |
| Flow of Events | Basic Path | (1) Select the category info from database, and bind them into the combo box |
| (2) User choose the category name they want |
| (3) Convert the selected category name into its corresponding ID |
| Alternate Path | Null |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Set Warning Line of Depletion** |
| Description | | Set warning line of depletion when add a new goods |
| Data Involved | | Threhold, |
| Precondition | | User is adding a new goods |
| Flow of Events | Basic Path | (1) valid the Threhold input is not less than the zero, otherwise go to E1 |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **Set Warning Line of Expiry** |
| Description | | Set warning line of expiry when add a new goods |
| Data Involved | | Days before expiry |
| Precondition | | User is adding a new goods |
| Flow of Events | Basic Path | (1) valid the days input is not less than the zero, otherwise go to E1 |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **Maintain Goods Category Info** |
| Description | | Updates the goods Info when necessary |
| Data Involved | |  |
| Precondition | | Null. |
| Flow of Events | Basic Path | (1) Updates the data in the UI. |
| (2) Valid the data input is available, otherwise go to E1 |
| (3) Update database |
| (4)Refresh the UI |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **Statistics** |
| Description | | Select the sum of quantity and money according to the requirement of user |
| Data Involved | | Start Date, End Date, Category Name, Goods Name |
| Precondition | | Login as the role of Manager |
| Flow of Events | Basic Path | (1) user choose the date from UI |
| (2) Select the required record from database |
| (3) Display the data on UI |
| Alternate Path | Null. |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Maintain Grocer Info** |
| Description | | Updates the grocer Info when necessary |
| Data Involved | |  |
| Precondition | | Login as the role of Manager |
| Flow of Events | Basic Path | (1) Updates the data in the UI. |
| (2) Valid the data input is available, otherwise go to E1 |
| (3) Update database |
| (4) Refresh the UI |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Inform user the input is wrong, asked for re-input |
| (2) go the Basic Path (2) |
| **Use Case Name** | | **Warn of Impending Expiry** |
| Description | | Release the warning of impending expiry to User |
| Data Involved | | Batch No., Goods Name |
| Precondition | | Current date is greater than the expiry time of some goods subtract its warning line of expiry |
| Flow of Events | Basic Path | (1) System automatically select the goods info which is in the precondition of this case |
| (2) Release the warning of impending expiry to User |
| Alternate Path | Null. |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Maintain Database** |
| Description | | Maintain the database info |
| Data Involved | | Null. |
| Precondition | | Login as the role of Manager or Administer |
| Flow of Events | Basic Path | (1) Choose Backup or Restore |
| Alternate Path | Null. |
| Exceptional  Path | Null. |
| **Use Case Name** | | **Backup Database** |
| Description | | Backup the database |
| Data Involved | | Null. |
| Precondition | | Login as the role of Manager or Administer |
| Flow of Events | Basic Path | (1) Start to backup database |
| (2) If unsuccessful, go to E1 |
| (3) Inform user operation is done |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Display the exceptional info |
| (2) Roll back |
| **Use Case Name** | | **Restore Database** |
| Description | | Restore the database |
| Data Involved | | Backup Date |
| Precondition | | Login as the role of Manager or Administer |
| Flow of Events | Basic Path | (1) Start to restore database into the previous status according to the selected backup date |
| (2) If unsuccessful, go to E1 |
| (3) Inform user operation is done |
| Alternate Path | Null. |
| Exceptional  Path | E1 |
| (1) Display the exceptional info |
| (2) Roll back |