

Inventory Control System

Use Case Specification

Use Case Name		Deliver Stock
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		Warn users the depletion of goods and request for stock up
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 Requeset
	Alternate Path	Null
	Exceptional Path	Null.
Use Case Name		Order Stock
Description		Insert warehouse inbound 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	Null.

	Path	
	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 Threshold, 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	Basic Path	(1) Select the category info from database, and bind them into the combo box

Events		(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		Analyse 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