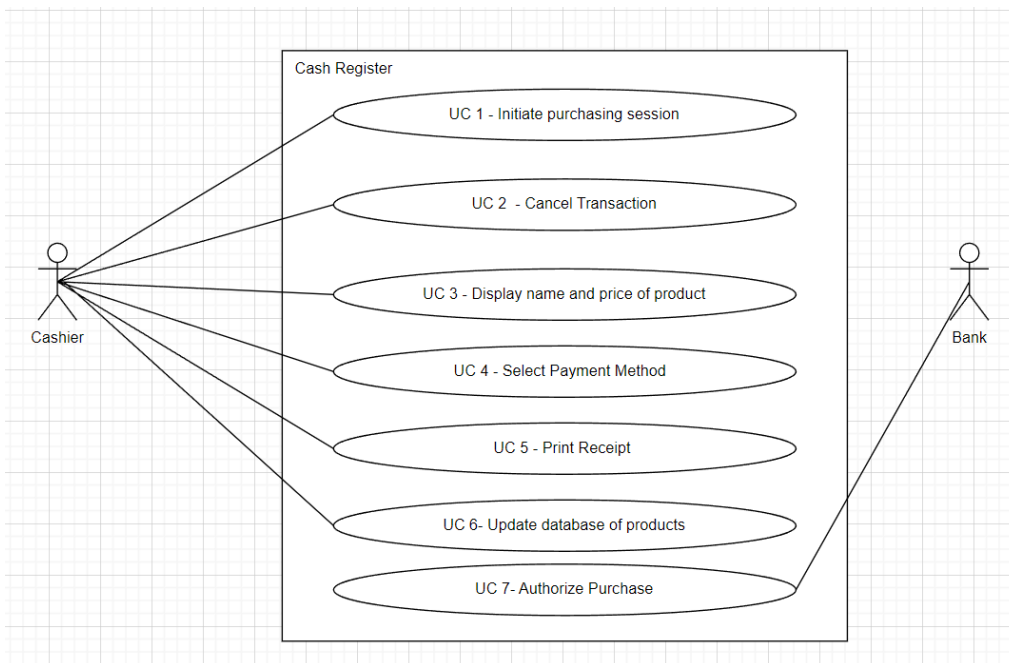Use Cases:

Use Cases	Description
UC-1: Initiate Purchasing session	The cashier should enable a purchasing session by hitting a key on the keyboard. This should be done before the barcode scans and reads any products. In other words, the barcode scanner should be unusable till the cashier enables a purchasing session.
UC-2: Cancel Transaction	The cashier should be able to cancel the purchasing session at any given moment. This should also remove all items scanned during the transaction.
UC-3: Display name and price of product	The cashier should scan the product with a barcode scanner. After it has been scanned successfully, the price and name of the product that the customer wants to purchase.
UC-4: Select Payment Method	After all the products are scanned, the cashier should select the customer's choice of payment. The payment options consist of cash, debit card or credit card.
UC-5: Print Receipt	The cashier should be able to end the session by printing a receipt after all the products have been scanned.
UC-6: Update database of products	The cashier should update the local database to consist of all the products and their prices.
UC-7: Authorize Purchase	The bank should authorize the purchase if a debit or credit payment is selected.

Quality Scenarios

ID	Quality Attribute	Scenario	Associated Use Case
QA-1	Reliability	The product name and price should be accurate and match what the customer saw on the shelves.	UC3 & UC6
QA-2	Availability	The system maintainers create backups. If the system goes down, the system maintainers are able to use the back ups to restore it.	UC6
QA-3	User Friendliness	The cash register's user interface should be modern, friendly and easy to use for all users. When the cashier goes to scan a product, the barcode should display all the required info.	All
QA-4	Maintainability	The cashier can update the database on the system to consist of any new products added.	UC6
QA-5	Security	The cashier should be able to select a payment method while keeping the customer's card information hidden. This can be achieved by getting a third party to complete any card payments.	UC8

Constraints:

ID	Constraint
CON-1	A cashier can only use the system once they have enabled it from the keyboard.
CON-2	The cashier should accommodate for any unplanned hardware changes.
CON-3	Once a transaction is canceled, the database should reset to update the products.