Use Cases

Cash Register

- UC-1: Manage session
- UC-2: Display product info
- UC-3: Select payment type
- UC-4: Authorize payment
- UC-5: Print reciept
- UC-6: Maintain system
- UC-7: Update database
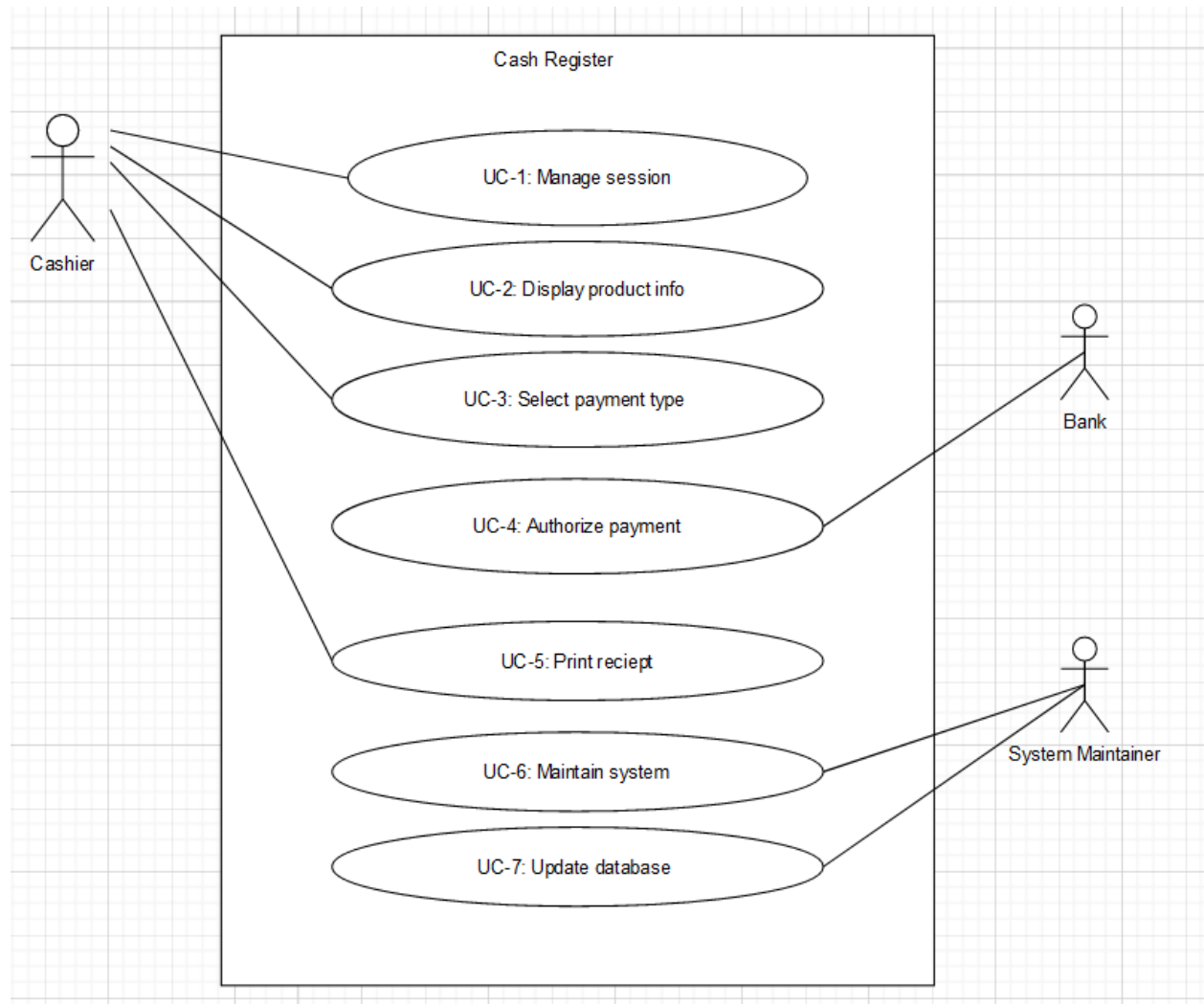
Cashier

Bank

System Maintainer

Use Case	Description	Requirement
UC-1: Manage Session	Cashier starts a new purchase order. They are able to cancel products and cancel the entire purchase	R-01, R-02, R-07
UC-2: Display product info	Display product name and price on display, also display unknown product message if barcode cannot be read.	R-03, R-04
UC-3: Select payment type	Cashier selects payment type that the customer would like to use	R-05
UC-4: Authorize payment	3rd party payment system sends information to the bank and the bank confirms if payment is successful.	R-06
UC-5: Print reciept	Product information is sent to the ticket printer and purchase order is printed.	R-06
UC-6: Maintain system	System maintainer will maintain system and ensure it is functional	All
UC-7: Update database	System maintainer makes sure all product info in the database is up to date.	R-09

Quality Scenarios

ID	Quality Attribute	Scenario	Requirement
QA-1	Interoperability	Cash register should be able to communicate with all components seamlessly.	All
QA-2	Maintainability	Must be able to upgrade to different hardware platforms in the future.	R-08
QA-3	Connectivity	System must keep a reliable connection to database	R-09

Constraints

CON-1	Must be able to process large orders with many products and barcodes	All
CON-2	Network connection between cash register and database should be fast and reliable	R-09
CON-3	Must have a backup of all product information	R-09