

Exercise 1.

ID	Use Case	Description
R-01	UC-1 Startup Display	This allows the cashier to start the product purchasing session
R-03 R-04	UC-2 Barcode Scanner	This allows all the products of the customer to be scanned. If the item cannot be read by the scanner then an error message is going to pop up saying “unknown product” however, it will print out the products with the proper barcodes.
R-02 R-07	UC-3 Cancellation Products	Cashiers can cancel the product that the customer does not want during their scan session.
R-05	UC-4 Different Payment methods	The cash register is able to allow the customer to use more than one payment method such as cash or payment with cards (Credit card or Debit Card).
R-06	UC-5 Payment Verification	A paper ticket is printed out as a proof of payment after the customer has paid for all the products. The receipt consists of the quantity of the products, the unit price of the product, and the total price of everything combined.

ID	Quality Attributes	Scenario
QA-1	Evolvability	The platform is going to be able to change in the future with better advancements
QA-2	Security	The employees is given a password that can give him access to the cash register
QA-3	Error Handling	The cashier is notified about an item which does not get picked up once it has been scanned

ID	Constraints
R-01 R-04 R-07	Cashiers keyboard needs to be functionable at all times since it is detrimental for starting the purchasing session, manually entering in codes of products and canceling items
R-02	Cashiers can cancel a purchasing session at any time during the session resulting in nullifying all items that have been scanned through the start of the session.
R-08	It must be possible to be able to change the hardware platform in the future.
R-04	It must be able to detect the difference between a proper barcode and a barcode which can generate an error