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SWEN5232 - Software Construction

Assignment Number: **2**

Tool Shop

Tool Shop Brainstorm:

uc Woodshop Brainstorm

Constraints
- Web based solution to achieve ubiquitous reach
- Hosted by third party (We will have to help client find 3rd party)
- Must use existing Inventory Control DB system

Customer

«subsystem»
Woodshop Toys

Woodshop Tools
a small brick-and-mortar shop
that wants an online footprint to
supplement in-store sales

Time

Send out coupons to infrequent buyers

Store Manager

Functional Requirements

Shop for tools

- Browse by Category

- Browse by price range

- Search by name

- View List of best sellers

- View Tool Details
- Read Review of Tools
- Add Tools to Shopping Cart
- Add Tools to Wish List
- View Shopping Cart Contents
- View Wish List Contents
- View Other Customer's Wish Lists
- Check Out

Check order status

Cancel an order

Refund an Order

View Order History

Receive Shipping notification

["registered" customers only]
Receive special offers
Receive Coupons
Rate tools...

Process Open Orders

- View List of Open Orders
- Fullfill order (Ship & Close it)
- Cancel and Refund an order

View Sales Reports
- Conversions, abandonments, etc.

Manage Customer Accounts
- Delete Account
- Reset Password

Manage Inventory
- Manage product categories
- Manage inventory levels
- Place products on back order

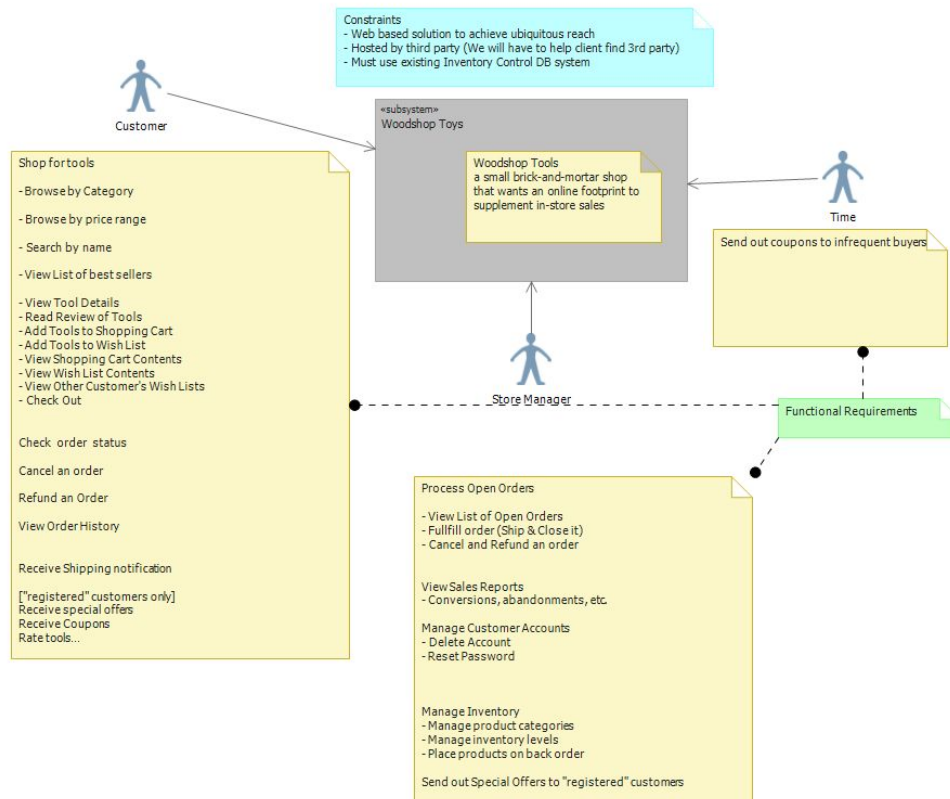Send out Special Offers to "registered" customers

Figure 1: Brainstorm for Tool Shop

Tool Shop Use Cases:
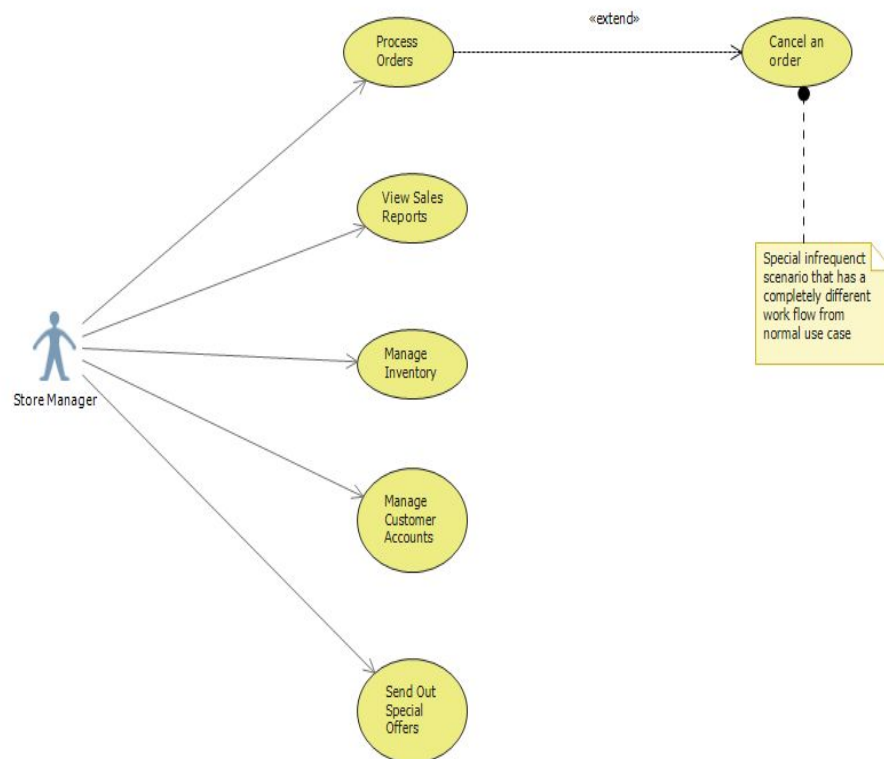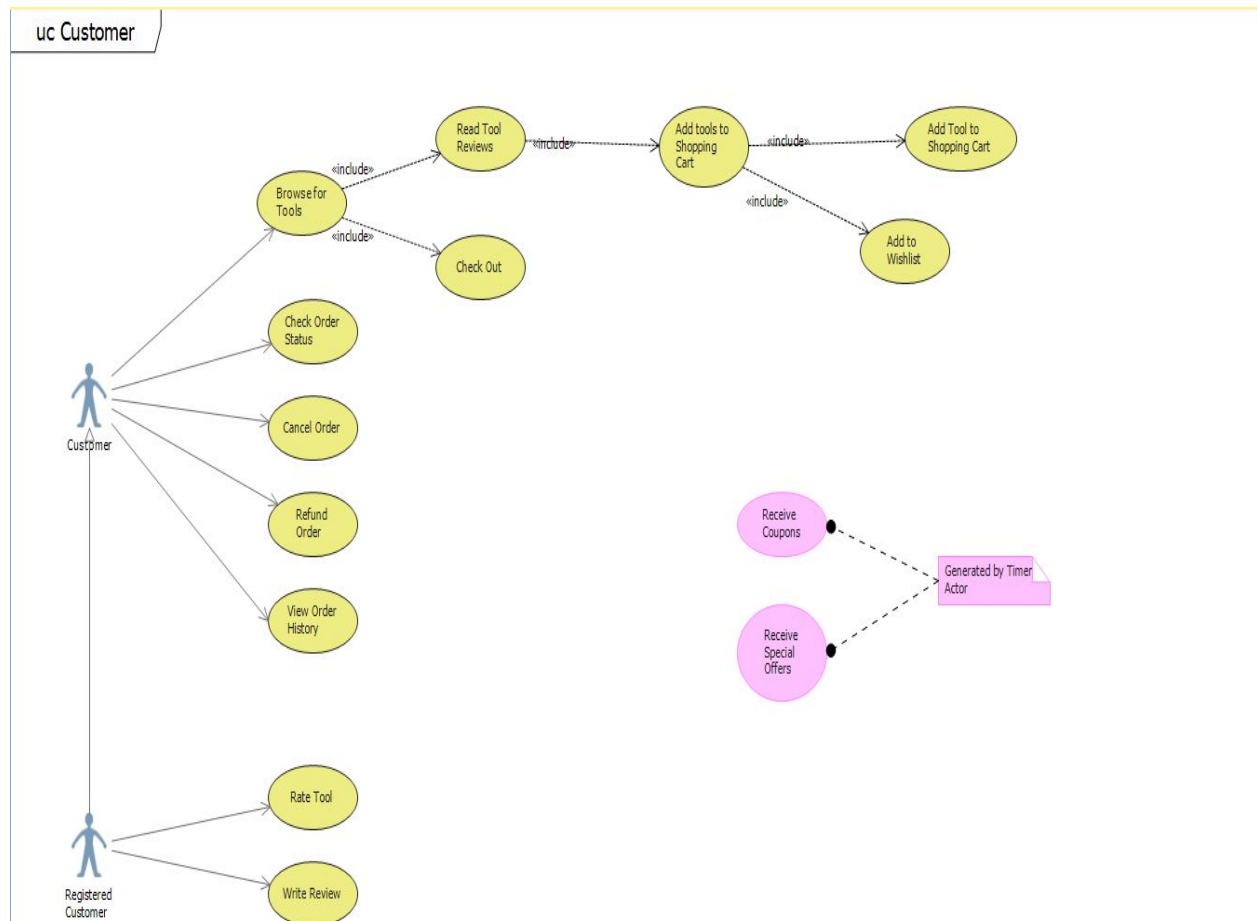
1. Store Manager

uc StoreManager

Figure 2: Store Manager Use Case for Tool Shop

2. Customer

Figure 3: Customer Use Case for Tool Shop
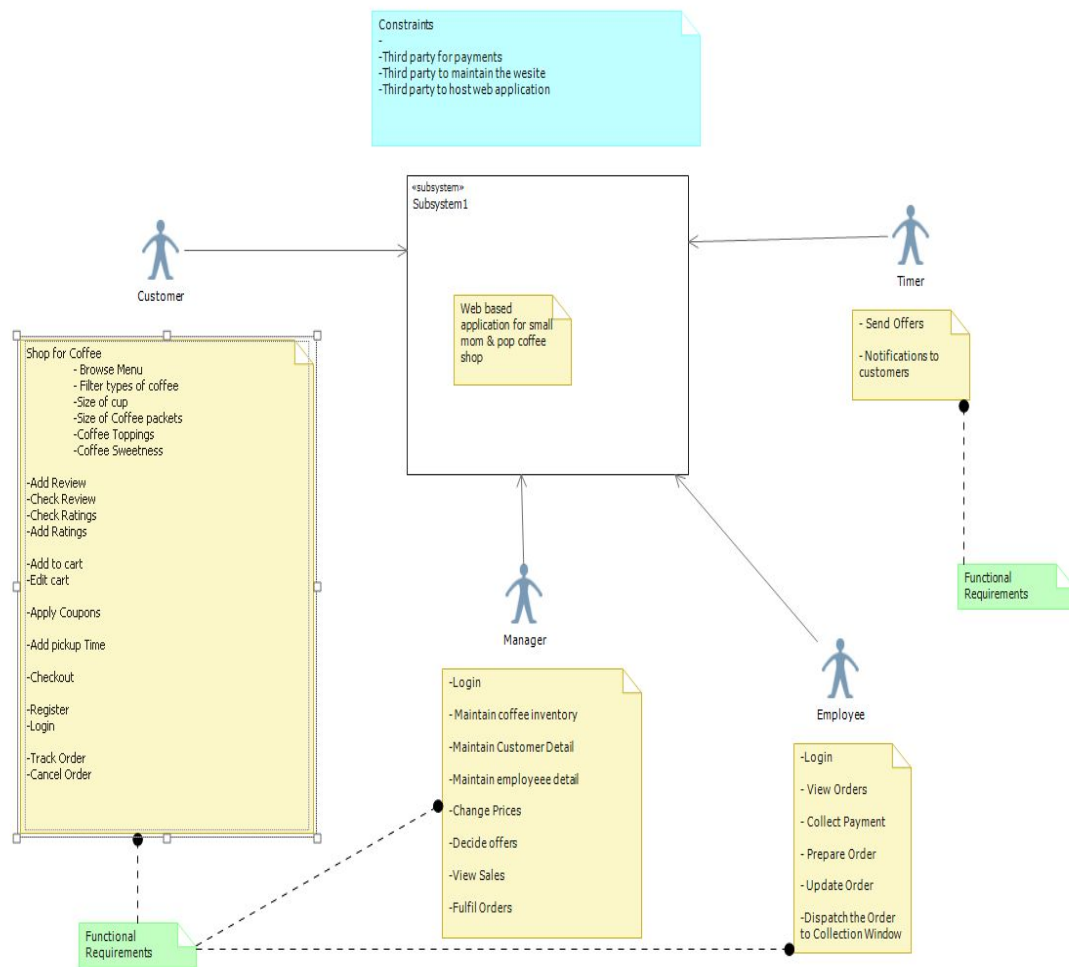
Coffee Shop

Coffee Shop Brainstorm:

Constraints

-
-Third party for payments
-Third party to maintain the wesite
-Third party to host web application

«subsystem»
Subsystem1

Customer

Timer

Web based application for small mom & pop coffee shop

- Send Offers

- Notifications to customers

Shop for Coffee
- Browse Menu
- Filter types of coffee
-Size of cup
-Size of Coffee packets
-Coffee Toppings
-Coffee Sweetness

-Add Review
-Check Review
-Check Ratings
-Add Ratings

-Add to cart
-Edit cart

-Apply Coupons

-Add pickup Time

-Checkout

-Register
-Login

-Track Order
-Cancel Order

Functional Requirements

Manager

-Login

-Maintain coffee inventory

-Maintain Customer Detail

-Maintain employeee detail

-Change Prices

-Decide offers

-View Sales

-Fulfil Orders

Employee

-Login

- View Orders

- Collect Payment

- Prepare Order

- Update Order

-Dispatch the Order to Collection Window

Functional Requirements

Functional Requirements

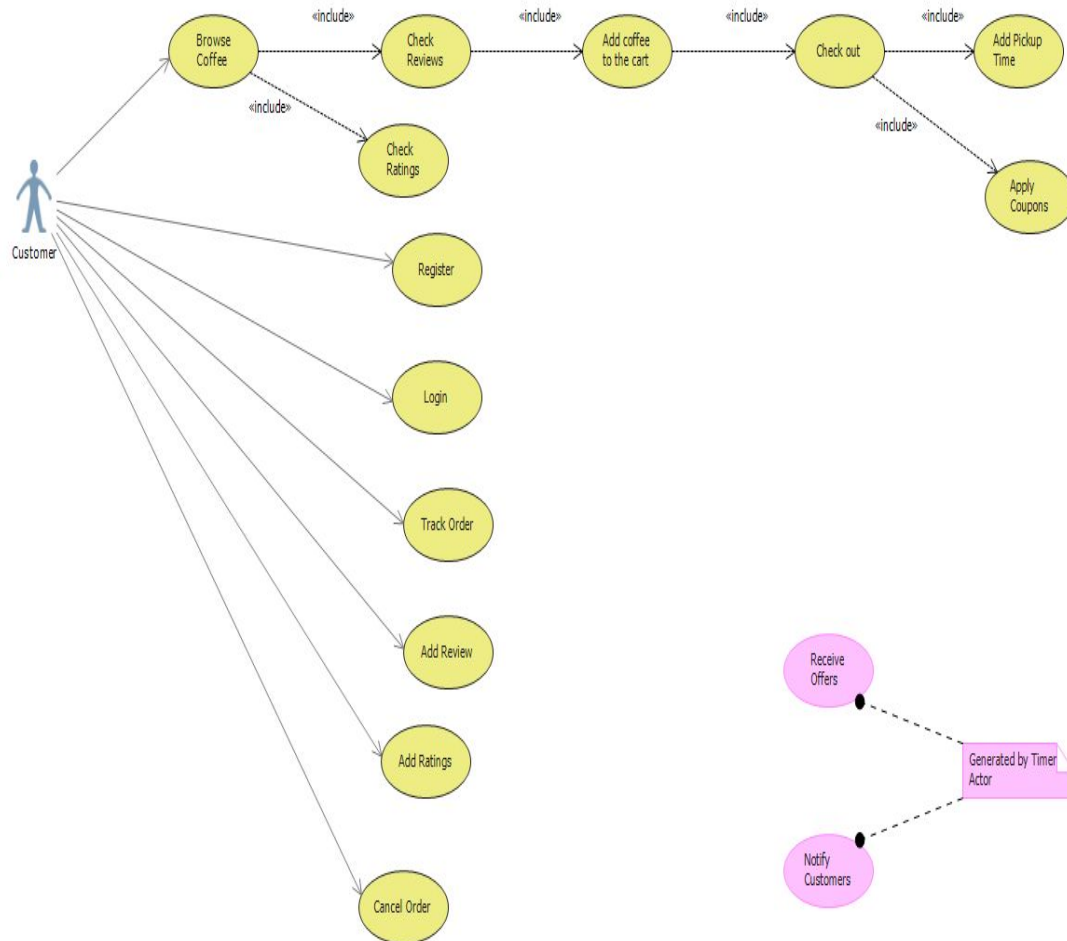**Figure 4: Brainstorm for Coffee Shop**

Coffee Shop Use Cases:

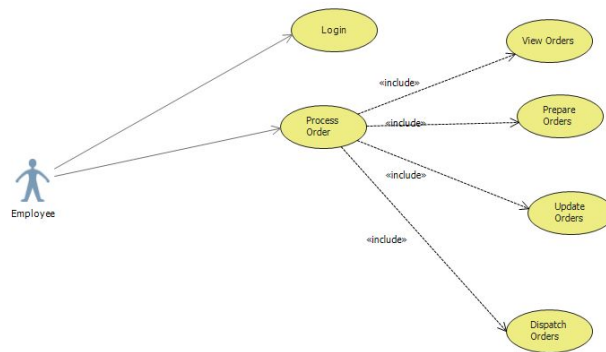1. ## Manager
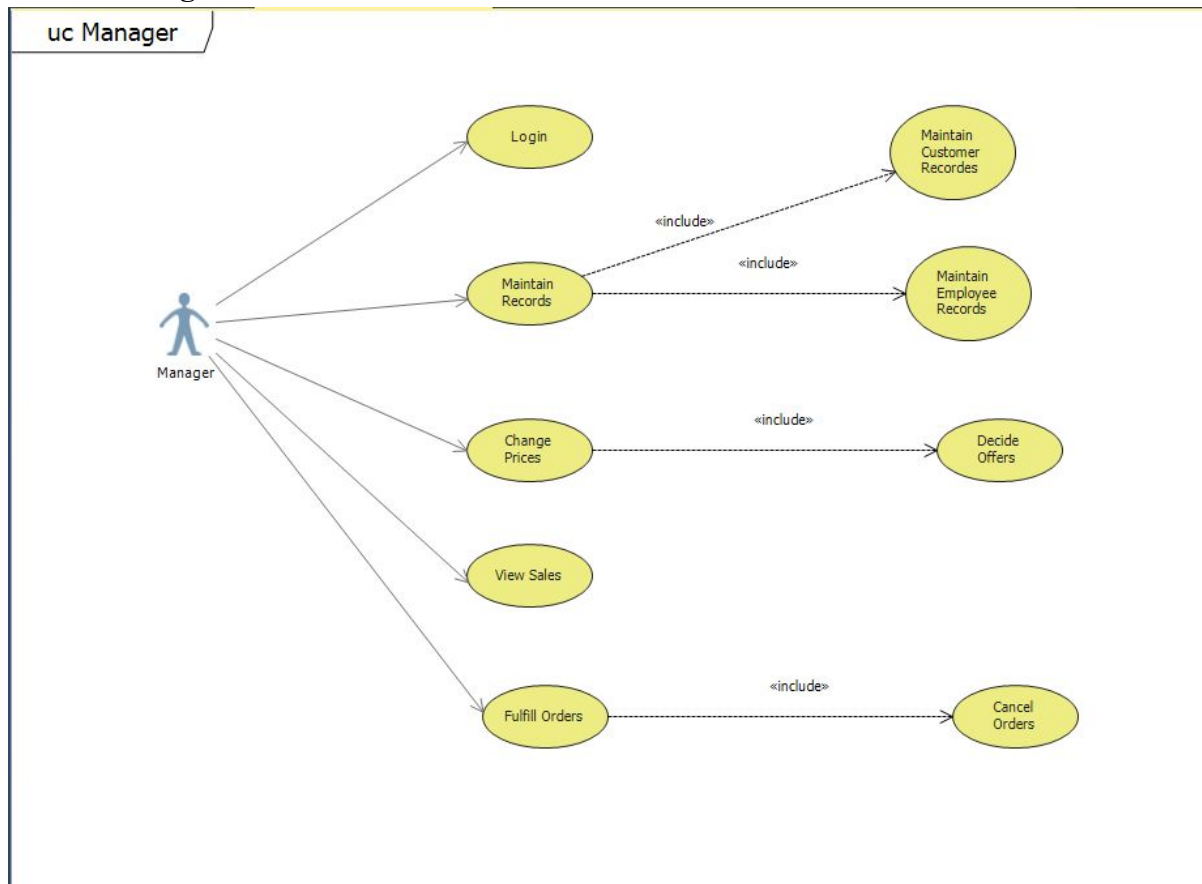
Figure 5: Manager Use Case for Coffee Shop

2. Customer

Figure 6: Customer Use Case for Coffee Shop

3. Employee

Figure 7: Employee Use Case for Coffee Shop
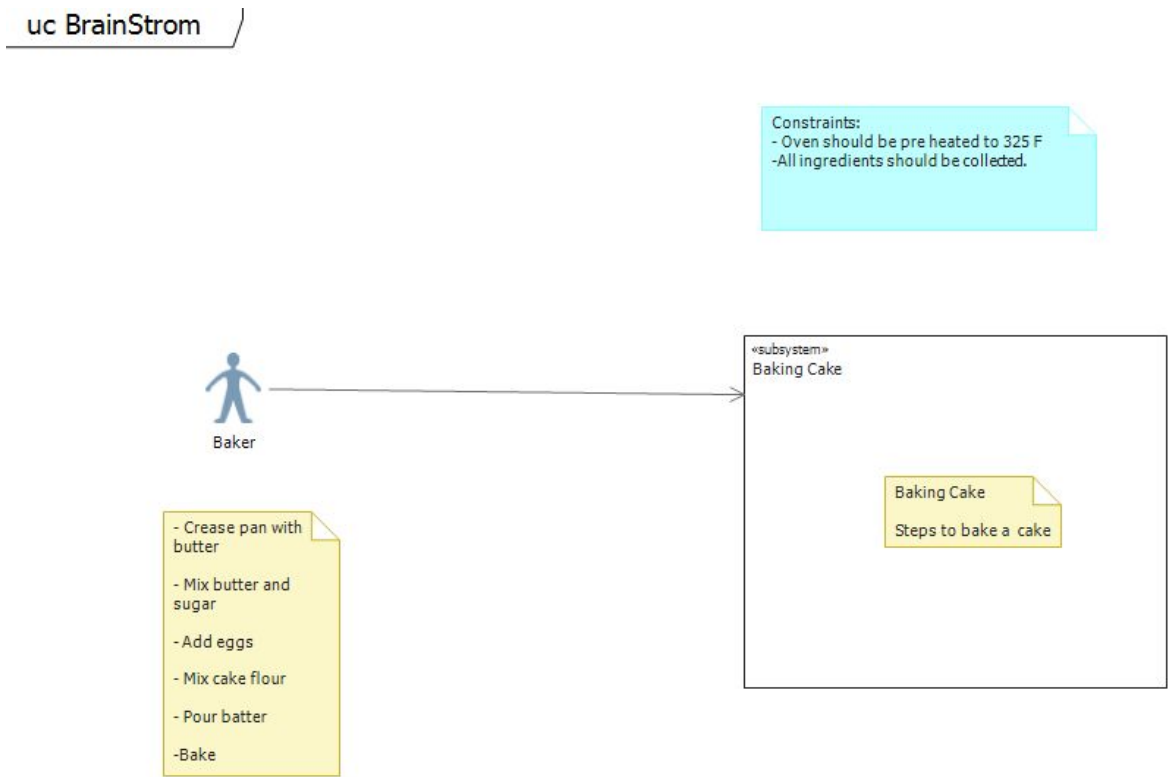
Baking Cake

Baking Cake Brainstorm:
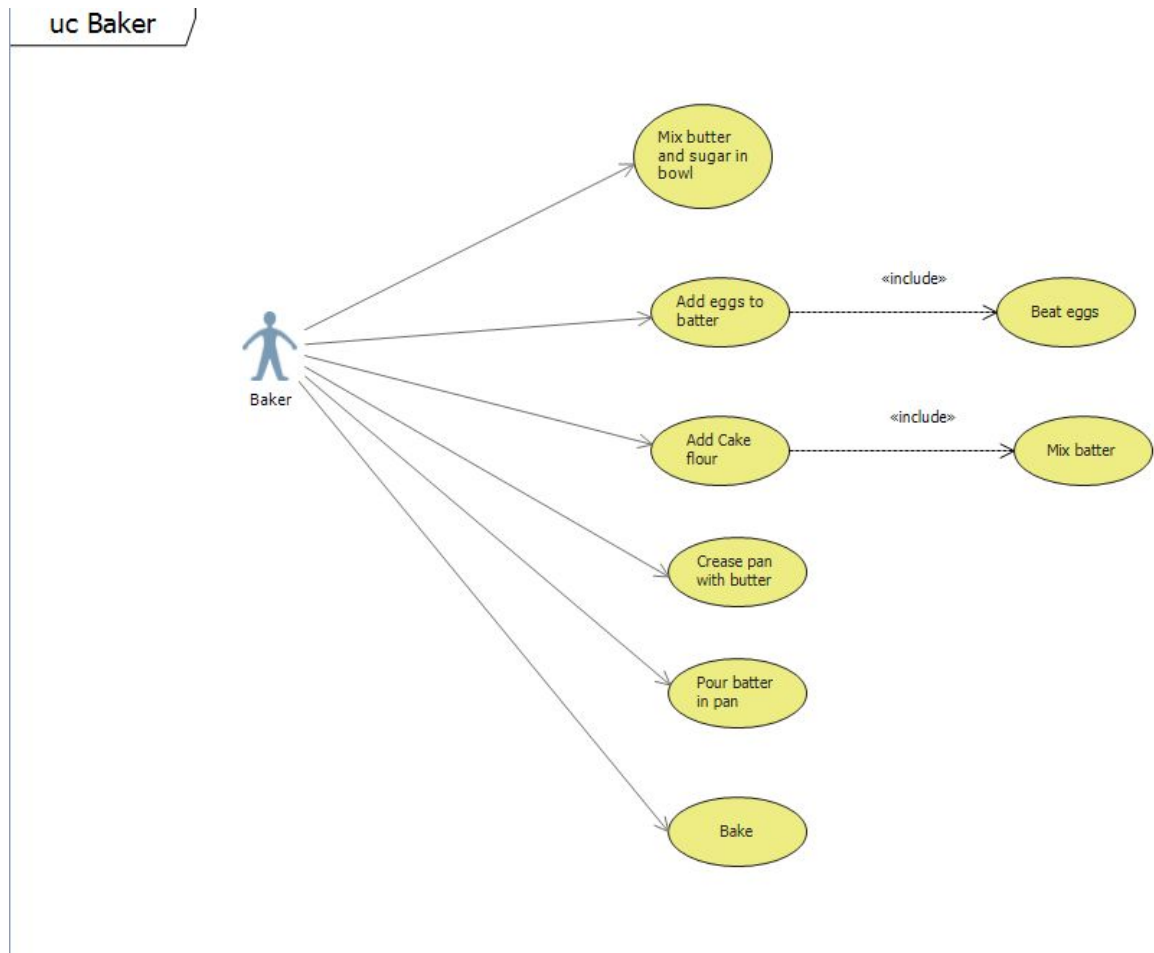

Figure 8: Brainstorm for Baking Cake

Baking Cake Use Cases:

1. **Baker**

Figure 9: Baker Use Case for Baking Cake