INFOSYS 220
ASSIGNMENT 2
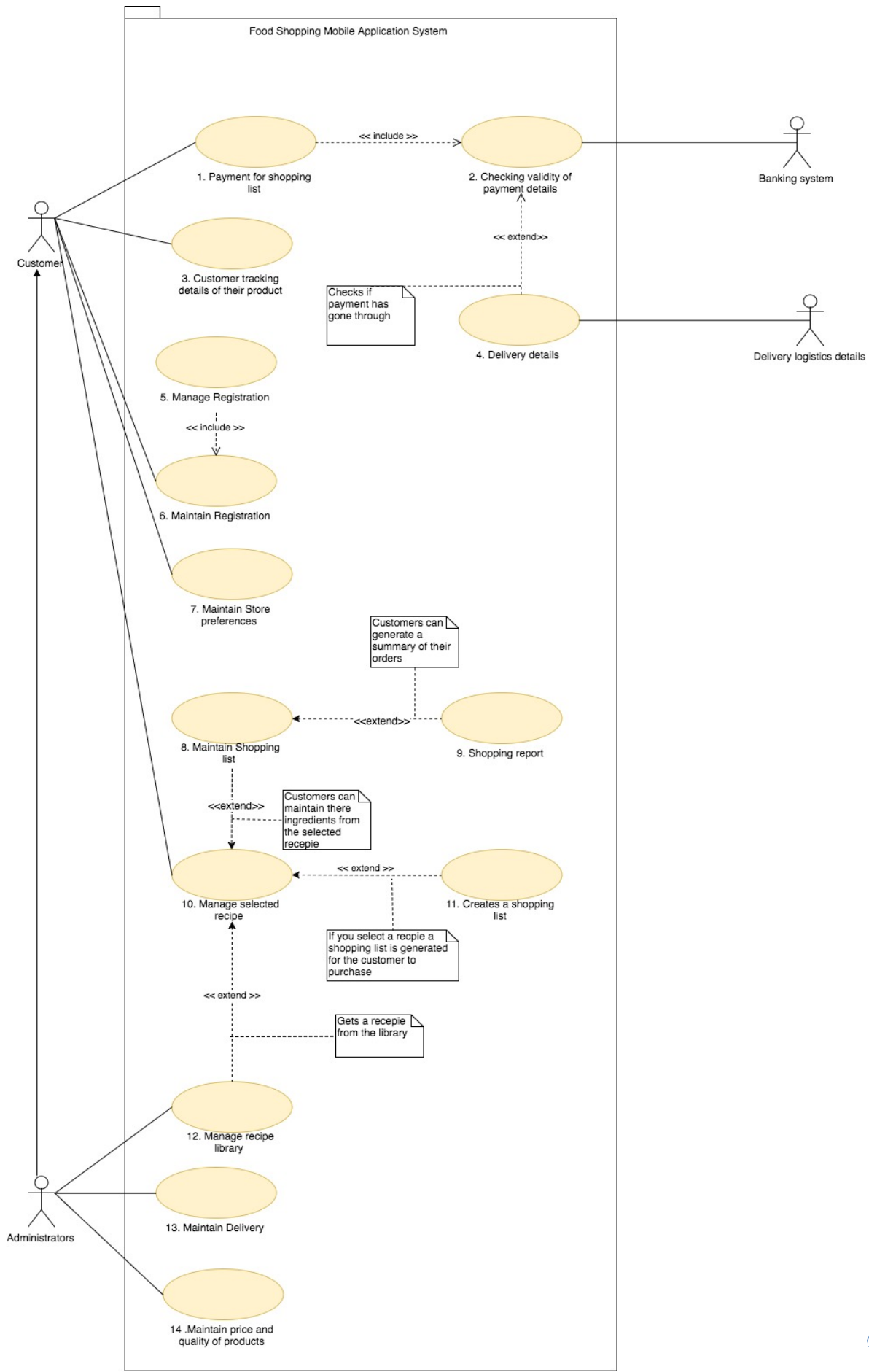
USE CASE MODELLING
Semester 1 2017 Individual Assignment Template

1. REQUIREMENTS DEFINITION REPORT

Functional Requirements:
1. Food shopping profile system
1.1 Customers need to setup a profile before they start using the system. Certain attributes will be taken into account into the system. For example, number of family members, dietary preference, preferred store and delivery preference.
1.2 Customers should be able to maintain their information about their profile
2. Food shopping list management
2.1 Customers can log update, view and delete their shopping list from the system
2.2 Customers preferences on their store information can be managed any time in system
2.3 A weekly shopping report can be requested at any time which will be generated through the system
3. Delivery services
3.1 Payment for the shopping list is validated then customers are sent their delivery details if accepted
3.2 Customers can track the delivery process of their product in the system
3.3 Administrators should be able to edit, update and delete delivery information before the scheduled delivery date of their goods.
4. Recipe organiser services
4.1 Customers can select within in the system a recipe then manage the recipe they have selected
4.2 Recipes are selected from the extensive library of existing recipe on the database
4.3 The system will convert the recipe ingredients into a shopping list for the customers to purchase
4.4 Administrators can manage the library of recipes in the system at any given time

5. Product management
5.1 Administrators should be able to verify the pricing of products and quality of the stores that are registered in the system.
Non-functional Requirements:
1. Operational
1.1 Due to the budget the mobile app will only be offered on android and IOS devices.
1.2 Customers and administrators should be able to manage the system without the need of a active internet connection. Any changes made without an internet connection will be synchronized when a internet connection is connected
2. Interface Requirements
2.1 To make the system more user friendly and identify products easier the system will have large images and a logical display order.
2.2 A central menu called 'Easy Shopping' will be where the customers profile information will be stored and preferred recipe information will be managed under for easier usability
3.Performance
3.1 The system will automatically update the pricing of products to the selected stores on a daily basis

2. USE CASE MODEL

Food Shopping Mobile Application System

1. Payment for shopping list

<< include >>

2. Checking validity of payment details

Banking system

Customer

3. Customer tracking details of their product

<< extend>>

Checks if payment has gone through

4. Delivery details

Delivery logistics details

5. Manage Registration

<< include >>

6. Maintain Registration

7. Maintain Store preferences

Customers can generate a summary of their orders

8. Maintain Shopping list

<<extend>>

9. Shopping report

Customers can maintain there ingredients from the selected recepie

<<extend>>

10. Manage selected recipe

<< extend >>

11. Creates a shopping list

If you select a recpie a shopping list is generated for the customer to purchase

<< extend >>

Gets a recepie from the library

12. Manage recipe library

Administrators

13. Maintain Delivery

14 .Maintain price and quality of products

3. USE CASE DOCUMENTATION

USE CASE # 8	Maintain shopping list	Priority: High
Goal in Context	The system will log, update, view and delete their shopping list for the user.	
Trigger event & Type	User decides to maintain recipe list External	
Primary actor(s) & Secondary actor(s)	Primary: User Secondary: None	
Related use cases	**Extend** UC#9 Shopping report (Extension) **Extend** UC#10 Manage selected recipe (Extension)	
Preconditions	User must be logged into the system User has to have a selected recipe	
Success post condition	User will be able to log, update, view and delete their shopping list	
Failure post condition	User will not be able to log, update, view and delete their shopping list.	
NORMAL FLOW steps (NF)	**Action**	
NF1	User has to select a recipe	
NF2	The system presents the user with the option to view their shopping list	
NF3	The system will show the selected recipe ingredients in a list format with a numerical value next to each product and photo.	
NF4	Once the user has viewed their shopping list the system will present an option if they wish to delete or update any items on their list.	
NF5	The user selects update	
NF6	The system will present a list view of the products they can add to their existing shopping list	
NF7	To add items the user presses the '+' button which will be displayed next to the product photo. The user adds an item	
NF8	The system prompt the user that their shopping list has been updated	
NF9	The system displays the sub total of the total cost of ingredients	
NF10	The system displays a log of the history of the products the user has bought and asks the user if they wish to see a weekly generated report	
NF11	The user selects no	
NF12	UC ends	
ALTERNATE FLOW steps (AF)	**Action**	

AF1.a	The system checks to see if the user has selected a recipe
AF1.a.1	If the user has not The system takes them UC#10 where you manage your recipes to reselect a recipe
AF1.a.2	If the user has selected one the system goes to NF2 where the shopping list is viewed
AF4.a	The system presents an option to either delete or update the shopping list
AF4.a.1	The user selects delete
AF4.a.2	Proceed to NF9
AF7.a	User updates nothing on the shopping list
AF7.a.1	Proceed to NF9
AF10.a	The system will ask the user if they want to see a weekly generated report from UC#9
AF10.a.1	The user selects yes then UC#9 executes and shows the products the user has purchased over a weeks periods
AF10.a.2	UC ends
EXCEPTION FLOW steps (EF)	**Action**
EF#3.a	Blanks images are being shown in the view list option
EF#3.a.1	The system informs the user and recommends to restart the application
EF#7.a.2	UC ends
Non-functional requirements	Stock level and pricing must be constantly updated. Easy to read and photos, for the products, so the user knows what they are buying. Providing a secure/reliable and safe application for both platforms which is stable on Android and IOS devices.

4. ACTIVITY DIAGRAM

User

System

User selects a recepie

Selected a recipe? — no → System takes the user to US#10 where they manage their recipes to reselect one

yes → System enables to view shopping list

Shopping list is displayed with selected recipe of ingredients with photos

Are the photos being displayed — no → System informs user of blank images and to restart application

yes → System presents option to update or delete

User selects update

User selected update ? — No

yes → System will present a list of the products they can add to their exisitng shopping list

User adds items to the shopping list

Adds anything to their shopping list? — no

System prompts user shopping list is updated

System displays sub total of the total cost of ingredients

System displays the log history of shopping lists

The system asks the user if they wish to see a weekly generated report — No

Yes → Shows the report of the summary of products product ver a weeks period