

[Distribution System] Requirements Specification

Version 1.0

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1. Executive Summary

1.1 Project Overview

Nowadays we live in a world where technology is helping us to improve our lives and also achieve better results in different businesses. Having the same mission which is to help businesses the aim of the software we are creating is to increase the yearly profits of a company which distributes sweets throughout Albania.

Our idea consists of creating a system where we are aiming to register all the markets and shops in Albania especially in Tirana which has the biggest number of markets.

In this software each market can view the products and can also order the what he is needing for his personal market.

1.2 Purpose and Scope of This Specification

The purpose of the Online Distribution system is to:

- Evaluate the performance of our workforce in order to have better and more efficient results
- Have more consistent and accurate results

By creating this system our business will have an easier and faster way to keep track of every data in

the business .It will also be easier to see if the products have reached the customer needs, meaning

it will refine the certainty and management levels.

2. Product/Service Description

2.1 Product Context

Our online system is going to help Kida 2001 sh.p.k, which is a distribution company that delivers products such sweets throughout the country. By the use of our system the name of the company will be better spreaded, and so products of the company will become better known from clients. We are hoping to help the company increase their profits. We are going to create an independent system which is going to be used and accessed by the admin and also by clients(shops). Clients are continuously making orders while admin is looking and accepting orders.

The system will include information about the products, inventories, accounting, currency exchange, main info about the company.

2.2 User Characteristics

There are 3 types of users that will interact with our system:

1. Client

- Can create their own account.
- Can order which products they would like to purchase.
- Can read their personal data.
- Can read information about our company.
- Can check the money exchange web page to observe currencies.
- Can contact the company.
- Can log out.

2. Admin (manager)

- Can access account anytime.
- Can check the orders that have been submitted by the clients.

- Can check the orders that have been delivered to the clients.
- Can contact clients.
- Can check the bills and orders that the company is making from the suppliers.
- Can check reports.
- Can log out.

3.Employees

- Categorized in two categories(warehouse and delivery employees)
- Their duty in the system is to mark when orders are ready or when orders are delivered.

2.3 Assumptions

It is assumed that:

1. All users have basic knowledge in English Language.
2. Users have basic knowledge in smartphone and computer usage.
3. Admin must be logged in during working hours to check orders.
4. Every customer should be limited to watching only his orders and not interfere with other customers.
5. It is assumed that the personal information of the clients is confidential.
6. Every completed order must be stored in the system for documentation and report purposes.
7. The state billing system is integrated within the software.

2.4 Constraints

- An internet-accessible electronic device is needed to access the program.
- The client needs to be registered to use our program.

- Management and security.
- Network issues.
- other design constraints (e.g., design or framework depending on the device the program is being used)

2.5 Dependencies:

- The internet connection is a must for client to use the program. A connection is needed to place
- orders.
- If the admin is not registered in the system, other users will not be registered.

3. Requirements

3.1 Functional Requirements

Priorities classification:

- Priority 1 – The requirement is a “must have” as outlined by policy/law
- Priority 2 – The requirement is needed for improved processing, and the fulfillment of the requirement will create immediate benefits
- Priority 3 – The requirement is a “nice to have” which may include new functionality

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<u>Req#</u>	<u>Requirement</u>	<u>Comments</u>	<u>Priority</u>	<u>Date reviewed</u>	<u>SME reviewed/approved</u>
BR_01	Every client must create/have his unique account to access the system	The system can be accessed only with valid accounts.	1		
BR_02	Clients must sign up and create accounts	To create accounts clients must fill a form with their credentials.	1		
BR_03	Every client must have his unique username and password to access the system.	The passwords and usernames will be saved in database.	1		
BR_04	Login constraint	Every client have to be logged in to access the data of the system.	1		
BR_05	Each client can access only his own profile.	Clients cannot see orders and profiles of other clients	1		
BR_06	Every client's profile should be fulfilled with his shop address and contacts.	Company needs specific address for order delivery.	2		
BR_07	The client will be able to see all the products.	Products will be listed in database together with a picture of them.	2		

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BR_08	Clients can access from our system one of the best exchange companies.	Our company has always been close to Iliria'98 for money exchange.	3		
BR_09	Clients are able to see general information about our company.	There will be an "about us" feature in the system.	3		
BR_10	Clients can find at the "About us" section our phone nr or email	Clients can contacts us immediately by phone nr or email.	3		
BR_11	Every client will be able to see his order(bill).	System should offer that at least the last order should be viewed by each client.	2		
BR_12	Client can see his own personal information	Client can view the info he registered when he created the account except the password.	3		
BR_13	Client can update his personal information	Client can change information about his shop and can change his credentials (username& password)	2		
BR_14	Clients can order immediately online or by communicating with the manager.	Client can use his account to order.	2		
BR_15	Client can view the list of the products.	Client can see all the products	1		

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		available in our warehouse.			
BR_16	Client can view the price of each product and photo of each product.	The system will provide to the clients price and photo of products	2		
BR_17	Clients can enter the amount they want from each product	When making the order they can enter the amount they want near the product name.	2		
BR_18	Clients can submit order directly.	Client can submit order which will be than accessed by the manager.			
BR_19	At home page client can view a catalog of top/new/promotions products	This will be as attractive and user friendly as possible.	2		
BR_20	The manager can login by entering his username and password.	Username and password of the manager are stored in the database before.	1		
BR_21	The manager(admin) has access to database/employees /clients	Manager requires to approach details for employees and clients.	1		
BR_22	Manager can edit the home page	Manager can add/update the new/top products	1		
BR_23	Manager can edit the "About us"	Manager can edit the general information of	2		

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		the company or update it			
BR_24	Manager can view the currency exchange	Manager can also access Iliria'98 official currency page.	3		
BR_25	Manager can view the online orders from the clients	Orders are displayed to manager account at the moment clients submit their order	1		
BR_26	Orders are associated with details	Each order is together with an order number, time it was submitted and username who submitted the order	2		
BR_27	Manager should confirm the order	Manager confirms the order when all the products in that order are available in the warehouse	1		
BR_28	Manager can view the orders delivered to the clients	Orders delivered by the delivery employees are stored in the account.	2		
BR_29	Managers can check the live stock in warehouse.	This will be accessed only by the manager.	2		

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BR_30	Manage inventory	Only manager can add new products and see the stocks.	1		
BR_31	Manager can view the orders of the company.	Manager can check the orders the company has made from our suppliers.	3		
BR_32	Manager can view accounting information for the company.	Manager can view balance sheets for each month and he adds the new one for each month	3		
BR_33	Manager can view the employees list	Employees are ordered in a list with name and surname	2		
BR_34	Manager can delete employees from the database.	Manager has the right to delete employees from the system.	2		
BR_35	Manager registers new employees	Only manager can register new employees and create their accounts	2		
BR_36	Employees will be registered or divided in 2 categories.	There will be delivery employees and warehouse employees.	3		
BR_37	Warehouse employees will be responsible for loading the shipments.	This process will be controlled by the manager.	2		

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BR_38	Warehouse employees will have to mark the order.	Mark the order when ready for delivery.	1		
BR_39	Delivery employees will be responsible for taking the order from the warehouse and transporting it to the right address.	The main task of this employee will be delivering.	2		
BR_40	Delivery employee has to mark the order after delivery.	Delivery employee will have to mark the order when delivered.	1		

3.2 Non-functional Requirements

3.2.1 Product Requirements

3.2.1.1 Usability

- It will be easy to access in real time from different browsers online since the system is web based.
- It shall be easy for the user to understand and use the system.
- The system should allow users to practically and reliably manage their data.
- The system is designed to be fast and efficient.

3.2.1.2 Efficiency Requirements

3.2.1.2.1 Performance Requirements

- Our system will be a web-application that will be stored in a web server.

- It will be designed to support multiple users at the same time, by multiple interfaces.
- The system will need a good ISP with strong internet to work properly.

3.2.1.2.2 Space Requirements

3.2.1.2.2.1 Capacity

There is no need for capacity occupation in our mobile phones, computers or other devices, since our system is web-based. Internet connection is a key element when performance is considered but we will make sure that the application works even if there is low internet strength provided.

The system can be accessed by multiple users anytime, but as a medium-size organization, it is not expected to be accessed by a very large number of users. Being said that, the database that is going to be used will not be very complex, but also it will be capable enough to store everything that is needed.

3.2.1.2.2.2 Availability

The system will operate 7 hours a day, each day of the week and it can be accessed by users for as long as they have internet connection.

The system will be distributed only in Albania and can be used only in English language.

Different types of users will have different availability and access.

3.2.1.2.2.3 Latency

The website loading will be completed within less than 4 seconds. On average a simple process shall not take more than 2 seconds to complete. In order to be

efficient and productive, DMS is expected to fulfil some time limitations such as (also depending on internet speed and database size).

3.2.1.3 Dependability Requirements

3.2.1.4 Security Requirements

Protection

To protect data in system from destruction, etc. a validation of data is required before entering to the database.

Functions by using regular expressions, will check for authentication of:

- Ø password
- Ø Email address
- Ø Username

By encrypting information such as password, using hash methods to protect privacy.

Admin will control information of other users while employees will check only information related to them.

Some methods are taken when added new employee or when changing employee data.

Security of the system will be achieved by:

- Ø Encryption
- Ø Activity logging
- Ø Data integrity check

3.2.2 Organizational Requirements

3.2.2.1 Environmental Requirements

The user must have an internet connection so they can use the application.

This application will be focused on being as efficient as possible for both, the company(admin,employees) and also the clients(users).

Users should be able to operate properly by accessing the system and the menu(main tab) so they can select proper products.

3.2.2.2 Operational Requirements

There are three types of users:

- Admin
- Employee(divided in two groups)
- Clients

The user will be able and responsible for these operations:

1. Create a user/Login(clients)
2. Make orders(clients)
3. Edit/Modify personal information(admin)
4. Check stock inventory(admin)
5. Check last orders(clients)
6. Check the orders of the clients and company's bills to suppliers(admin)
7. Complete/delivered orders(employee)

3.2.2.3 Development Requirements

The system is going to operate as long as it is supported by a database in phpMyAdmin platform. Once the construction and the design of the application is

finished and its system interface is accordingly connected with the database it is its duty to manage the avoidance of any possible error occurrence. Also the administrator and the manager of the company who have the most system access can make any changes in the database, if needed.

3.2.3 External Requirements

3.2.3.1 Legislative Requirements

3.2.3.1.1 Safety/Security Requirements

Safety requirements ensure a safe design. System requirements must address the expectations of the customer in terms of safe system operation.

Warehouse employees will work in groups so they can face different problems when loading the shipments because sometimes the boxes of products can be heavy and cause injuries.

Clients together with delivery employees should arrange the boxes of products cooperating together when the order is delivered to specific client.

3.2.3.1.2 Accounting Requirements

Regarding the Client relationship, the billing format of each of the clients' orders will be made according to the Law: Nr.92/14 "**Për Tatimin mbi Vlerën e Shtuar**" which states that value with VAT must be included and represented according to a specific standard.

Regarding the Employees relationship, everything will be done according to the law standards of "Inspektoriati i Punes".

The Law on Accounting and Financial Statement No. 9228 of 2004 determines the financial reporting requirements applicable in Albania. For general purpose

financial reporting, two reporting frameworks are applicable in the jurisdiction: (i) National Accounting Standards (NAS) and (ii) IFRS as issued by the IASB, translated and published in Albanian language by the National Accounting Council (NAC).

The following entities are required to apply IFRS: (a) listed companies and subsidiaries of listed companies; (b) banks and non-banking financial institutions; (c) investment firms; and (d) large non-listed companies meeting defined thresholds determined by a Government decree.

Other entities, mostly small and medium-sized entities, use NAS issued by the NAC and approved by the Ministry of Finance of Albania in accordance with the procedures established under Law No. 9228. NAS are based on the international standards. In 2015, the NAC with the assistance of the World Bank completed the revision of NAS to bring them closer in line with the requirements of IFRS for SMEs.

The Law on Statutory Audit and Organization of the Accountancy Profession No. 10091 of 2009 modified in April 2016 by Law No. 47/2016, stipulates provisions governing audit of financial statements. The law requires application of ISA in statutory audits of entities that meet certain thresholds, including those entities which apply IFRS and joint stock companies which apply NAS.

The Albanian Institute of Authorized Chartered Auditors is responsible for the translation of ISA in Albania and, as of 2019, has translated the 2016 version of the standards.

3.2.3.2 Ethical Requirements

Every clients personal information, more importantly his orders and bills will be seen only by client itself and the admin or manager. His information will not be able to be accessed by other clients or other employees of the company.

3.2.3.3 Regulatory Requirements

3.3 Domain Requirements

The system manages and covers everything related to the distribution process for an existing medium-size business. It should be able to add and update employees and clients and store tabs of information on the database. The idea is that the program should operate to make it more efficient and easier for clients and the company to communicate by using this system.

4. User scenarios/ Use Cases

1. Client signs up

- a) Enters email
- b) Uploads shop name, phone number, address, username.
- c) Sets and confirm password
- d) Submits his info which are stored to database.

2. Client Successful Login

- a) Enters username and password
- b) If matched in the database, client is redirected to the client home page

3. Client Failed Login

- a) Enter username and password
- b) If not matched in the database, it is displayed an error message.

4. Client is at home page

- a) Client is successfully logged in
- b) He is redirected to Home page
- c) Client can see our top products

- d) Can see products which are in promotion
- e) Can see new products
- f) No action performed by client in Home page.

5. Client orders

- a) Client is successfully logged in
- b) Client goes to "Order Now" page
- c) A list of all our products is displayed
- d) List consists of product photo, name and price and a text box where he can enter the amount he wants to order for each product.
- e) After completing his order he can submit it.

6. Client views his last bill

- a) Client is successfully logged in
- b) Client goes to "My Account" page
- c) He can view his last bill(order).

7. Client checks his personal information

- a) Client is successfully logged in
- b) Client goes to "My Account" page
- c) His account info is shown there below his last order
- d) At the end of personal info there is an update button
- e) When clicked Client can update his account.

8. Client updates his personal information

- a) Client is successfully logged in
- b) Client goes to "My Account" page
- c) His account info is shown there below his last order
- d) There is an option there by which he can update his personal info(address, shop name, email, password...)

9. Client views information about our company

- a) Client is successfully logged in
- b) Client goes to “About Us” page
- c) He can see there general information about our company (Location, email, phone nr, photos).

10. Client looks currency exchange

- a) Client is successfully logged in
- b) Client goes to “Currency Exchange” page
- c) There is a link which redirects him to “Iliria 98” official page(an exchange company which has cooperated with our company since the beginning of our company)

11. Manager Login

- a) Enters username
- b) Enters password
- c) Username and password are checked with admin’s info in the database.
- d) If matched in the database successfully redirected to admin home page.

12. Manager fails to Login

- a) Enters username
- b) Enters password
- c) Username and password are checked with admin’s info in the database.
- d) If not matched in the database an error message is shown.

13. Manager is at home page

- a) Manager is successfully logged in
- b) He is redirected to Home page
- c) Manager can see our top products
- d) Can see products which are in promotion
- e) Can see new products

14. Manager is edits home page

- a) Manager is successfully logged in
- b) He is redirected to Home page
- c) There is an option by which he can update the Home page

15. Manager views info about the company

- a) Manager is successfully logged in
- b) He goes to "About us" page
- c) He can view general information about company

16. Manager updates info about the company

- a) Manager is successfully logged in
- b) He goes to "About us" page
- c) He can view general information about company
- d) He can edit and update this information when needed.

16. Manager looks currency exchange

- a) Manager is successfully logged in
- b) Manager goes to "Currency Exchange" menu

- c) There is a link which redirects him to “Iliria’ 98” official page(an exchange company which has cooperated with our company since the beginning of our company)

17. Manager views orders by clients

- a) Manager is successfully logged in
- b) Manager goes to “Orders” page
- c) A list of orders is shown there with corresponding order number, time when order was submitted by the client, username of the client ordering.

18. Manager confirms orders

- a) Manager is successfully logged in
- b) Manager goes to “Orders” page
- c) He views the list of orders
- d) He can confirm the order when every product demanded by the client is available at the warehouse.

19. Manager checks the orders delivered

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page
- c) He checks there “Orders delivered” menu to see marked deliveries by the delivery employees.

20. Manager checks our bills/orders

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page
- c) At the “Our Orders” Manager checks the bills of the company towards our suppliers.

21. Manager adds new bills/orders

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page

- c) At the “Our Orders” Manager adds new bills of the company towards our suppliers

22. Client checks the warehouse’s stock

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page
- c) At the “Check stock” menu he can see the stock available in warehouse.

23. Manager updates stock

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page
- c) He opens there “Check stock” menu
- d) He can update the stock at the end of each day.

24. Manager checks Accounting information

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page
- c) He opens there “Accounting Info” menu where he can see balance sheets and financial statements for each month.

25. Manager updates Accounting information

- a) Manager is successfully logged in
- b) Manager goes to “Accounting” page
- c) He opens there “Accounting Info” menu where he can add the financial statements at the end of each month given to him by the company’s accountant.

26. Manager checks employees list

- a) Manager is successfully logged in
- b) Manager goes to “Employees” page
- c) At the “Employees list” menu he checks the employees list

27. Manager deletes employees

- a) Manager is successfully logged in
- b) Manager goes to “Employees” page
- c) At the “Employees list” menu he can delete the employees which are not part of the company anymore.

28. Manager registers employees

- a) Manager is successfully logged in
- b) Manager goes to “Employees” page
- c) At the “Register Employees” menu he can register new employees by filling their information in a form.

29. Warehouse employee successfully logs in

- a) He enters the username and password given to him by the manager
- b) If they match with the username and password in the database he is logged in.

30. Warehouse employee fails to log in

- a) He enters the username and password given to him by the manager
- b) If they do not match with the username and password in the database an error message is shown to him.

31. Warehouse employee views the orders

- a) He views the order when confirmed by the manager
- b) Orders are ordered with numbers

32. Warehouse employee marks the orders

- a) He views the order when confirmed by the manager
- b) Orders are ordered with numbers
- c) He marks the order when the shipment is loaded.

33. Delivery employee successfully logs in

- c) He enters the username and password given to him by the manager
- d) If they match with the username and password in the database he is logged in.

34. Delivery employee fails to log in

- c) He enters the username and password given to him by the manager
- d) If they do not match with the username and password in the database an error message is shown to him.

35. Delivery employee views the orders

- a) He views the order when marked by warehouse employees
- b) Orders are ordered with numbers

36. Delivery employee marks the orders

- a) He views the order when marked by warehouse employee
- b) orders are ordered with numbers
- c) He marks the order when delivered to the client.

Use Cases

Name	User signs up (UC_01)
Summary	User creates an account in our system
Actor	Client
Description	User enters personal information such as email, address, phone nr and creates his username and password
Precondition	User must have valid email address and existing phone number.
Alternative	
Post Condition	Account is created and user is ready to log in

Name	User logs in (UC_02)
Summary	User enters the system by providing credentials
Actor	Client, manager, employees

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Description	User enters correct username and password
Precondition	User must have valid and existing account
Alternative	
Post Condition	User enters the system

Name	Client goes to Home page (UC_03)
Summary	Client views the info and pictures found in Home page
Actor	Client
Description	Client can see some of our best products and some of our new products associated with pictures at home page.
Precondition	Client must be logged in first
Alternative	
Post Condition	

Name	Client enters amount (UC_04)
Summary	Client enters the amount he want for every product he is ordering.
Actor	Client

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Description	Client views the product list and can enter the amount he wants to order for each product which are displayed to him first.
Precondition	Client must be logged in first
Alternative	
Post Condition	Client can now submit the order.

Name	Client submits the order (UC_05)
Summary	Client submits his order when ready.
Actor	Client
Description	After entering the amounts he wants for each product, Client can now submit his order.
Precondition	Client must be logged in first and must have entered amounts.
Alternative	
Post Condition	Order is now available at the manager account.

Name	Client updates account (UC_06)
Summary	Client can update his account by filling information they need to change
Actor	Client
Description	Client can change personal information at “My Account” page by clicking the “update ” button

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Precondition	Client must be logged in first
Alternative	
Post Condition	Client information is updated in the database

Name	Client access currency exchange page (UC_07)
Summary	Client is directed to “Iliria 98 ” official exchange page
Actor	Client
Description	Client clicks “currency exchange” page under which is displayed a link that sends him to “Iliria 98” web page to view the currency exchange.
Precondition	Client must be logged in first
Alternative	
Post Condition	Client is directed to “Iliria 98” web page

Name	Client visits “About us” page (UC_08)
Summary	Client views info about our company.
Actor	Client
Description	Client goes to “About us” page where he can view some information about our company
Precondition	Client must be logged in first

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Alternative	
Post Condition	

Name	Manager views Home page (UC_09)
Summary	Manager goes the Home page of our system
Actor	Manager
Description	Manager can see there some of our best products, new products and products which are in promotion.
Precondition	Manager must be logged in first
Alternative	
Post Condition	

Name	Manager edits Home page (UC_10)
Summary	Manager edits the Home page of our system
Actor	Manager
Description	Manager can edit the “Home” page of our system. He can update the best products, new products and products which are in promotion.
Precondition	Manager must be logged in first
Alternative	

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Post Condition	"Home" page is now updated.
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Name	Manager views "About us" info (UC_11)
Summary	Manager goes to view information about the company.
Actor	Manager
Description	Manager goes to the "About us" page which contains general information about our company
Precondition	Manager must be logged in first
Alternative	
Post Condition	

Name	Manager edits "About us" info (UC_12)
Summary	Manager can update or change general info about the company
Actor	Manager
Description	Manager by clicking an "edit" button at the "About us" page can edit and update info and pictures about the company
Precondition	Manager must be logged in first

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Alternative	
Post Condition	"About us" information is updated

Name	Manager access currency exchange page (UC_13)
Summary	Manager is directed to "Iliria 98 " official exchange page
Actor	Manager
Description	Manager clicks "currency exchange" page under which is displayed a link that sends him to "Iliria 98" web page to view the currency exchange.
Precondition	Manager must be logged in first
Alternative	
Post Condition	Manager is directed to "Iliria 98" web page

Name	Manager views the orders (UC_14)
Summary	Manager goes to "Orders" page to view the orders
Actor	Manager
Description	Manager goes to "Orders" page at which orders are shown with details such as the time the client has submitted the order and the username of the order.

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Precondition	Manager must be logged in first. Clients must have submitted orders.
Alternative	
Post Condition	Manager is aware of the orders.

Name	Manager confirms order (UC_15)
Summary	Manager views order with some detail about it and confirms it.
Actor	Manager
Description	Manager clicks “Orders” tab under which orders are shown with details such as the time the client has submitted the order and the username of the order. He can confirm the order by clicking “Confirm Order” button
Precondition	Manager must be logged in first. Clients must have submitted orders.
Alternative	
Post Condition	When order is confirmed it is updated to warehouse employees accounts.

Name	Manager views “Accounting” page (UC_16)
Summary	Manager views information related to accounting.
Actor	Manager
Description	Manager goes to “Accounting” page. He can now access 4 different menus : 1.Orders Delivered 2.Our Orders 3.Accounting Info 4.Check Stock

[Distribution System] Requirements Specification

Precondition	Manager must be logged in first.
Alternative	
Post Condition	

Name	Manager checks orders delivered (UC_17)
Summary	Manager views the orders delivered to our clients.
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Orders Delivered” menu where he checks the orders delivered to our clients.
Precondition	Manager must be logged in first. Delivery employee must have marked the orders as delivered.
Alternative	
Post Condition	

Name	Manager checks “Our Orders” (UC_18)
Summary	Manager views the orders of the company to our suppliers.
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Our Orders” menu where he checks our bills from our suppliers.
Precondition	Manager must be logged in first. There must be existing bills.

[Distribution System] Requirements Specification

Alternative	
Post Condition	

Name	Manager adds new bills (UC_19)
Summary	Manager adds new bills of the company to our suppliers.
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Our Orders” menu where he checks our bills from our suppliers. There he can add new bills.
Precondition	Manager must be logged in first.
Alternative	
Post Condition	There are new bills from our suppliers.

Name	Manager checks accounting information (UC_20)
Summary	Manager views information regarding accounting
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Accounting Info” menu where he checks financial statements and balance sheets.

[Distribution System] Requirements Specification

Precondition	Manager must be logged in first. There must be existing financial statements.
Alternative	
Post Condition	

Name	Manager adds accounting information (UC_21)
Summary	Manager adds new financial statements.
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Accounting Info” menu where he checks financial statements and balance sheets. He adds new financial statements and balance sheets every month
Precondition	Manager must be logged in first. There must be existing financial statements.
Alternative	
Post Condition	Accounting Info is updated with new financial statements and balance sheets

Name	Manager checks Stock (UC_22)
Summary	Manager checks the stock available in the warehouse.
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Check Stock” menu where he can see the stock available at the warehouse

[Distribution System] Requirements Specification

Precondition	Manager must be logged in first. There must be stock in the warehouse.
Alternative	
Post Condition	

Name	Manager updates Stock (UC_23)
Summary	Manager updates the stock available in the warehouse.
Actor	Manager
Description	Manager goes to “Accounting” page. He opens the “Check Stock” menu where he can see the stock available at the warehouse. He updates the stock at the end of each day
Precondition	Manager must be logged in first. There must be stock in the warehouse.
Alternative	
Post Condition	Stock is updated in the database.

Name	Checks employees list (UC_24)
Summary	Manager checks the list of all employees.
Actor	Manager
Description	Manager views all the employees name and surname ordered by numbers.
Precondition	Manager must be logged in first. There must be a list of employees.

[Distribution System] Requirements Specification

Alternative	
Post Condition	

Name	Manager deletes employees (UC_25)
Summary	Manager can delete employees from database anytime.
Actor	Manager
Description	Manager deletes employees by clicking “delete” next to the name of the employee
Precondition	Manager must be logged in first.
Alternative	
Post Condition	Changes saved in database and the employee is deleted

Name	Registering Employees (UC_26)
Summary	Manager register new employees.
Actor	Manager
Description	Manager goes to “Employees” page. He opens the “Register Employees” menu and adds new employees by filling the form.
Precondition	Manager must be logged in first.
Alternative	
Post Condition	Employees list updated.

[Distribution System] Requirements Specification

Name	Warehouse employee checks the order (UC_27)
Summary	He views the orders confirmed by the manager
Actor	Warehouse employee
Description	Warehouse employee views the order when it is confirmed by the manager
Precondition	Warehouse employee must be logged in first and there must be orders confirmed.
Alternative	
Post Condition	

Name	Warehouse employee marks the order (UC_28)
Summary	Warehouse employee marks the order when it is ready to be delivered.
Actor	Warehouse employee
Description	Warehouse employee must mark the order after it is loaded and it is ready to be delivered.
Precondition	Warehouse employee must be logged in first and there must be orders not marked in his account.
Alternative	
Post Condition	Delivery employee receives the order in his account.

[Distribution System] Requirements Specification

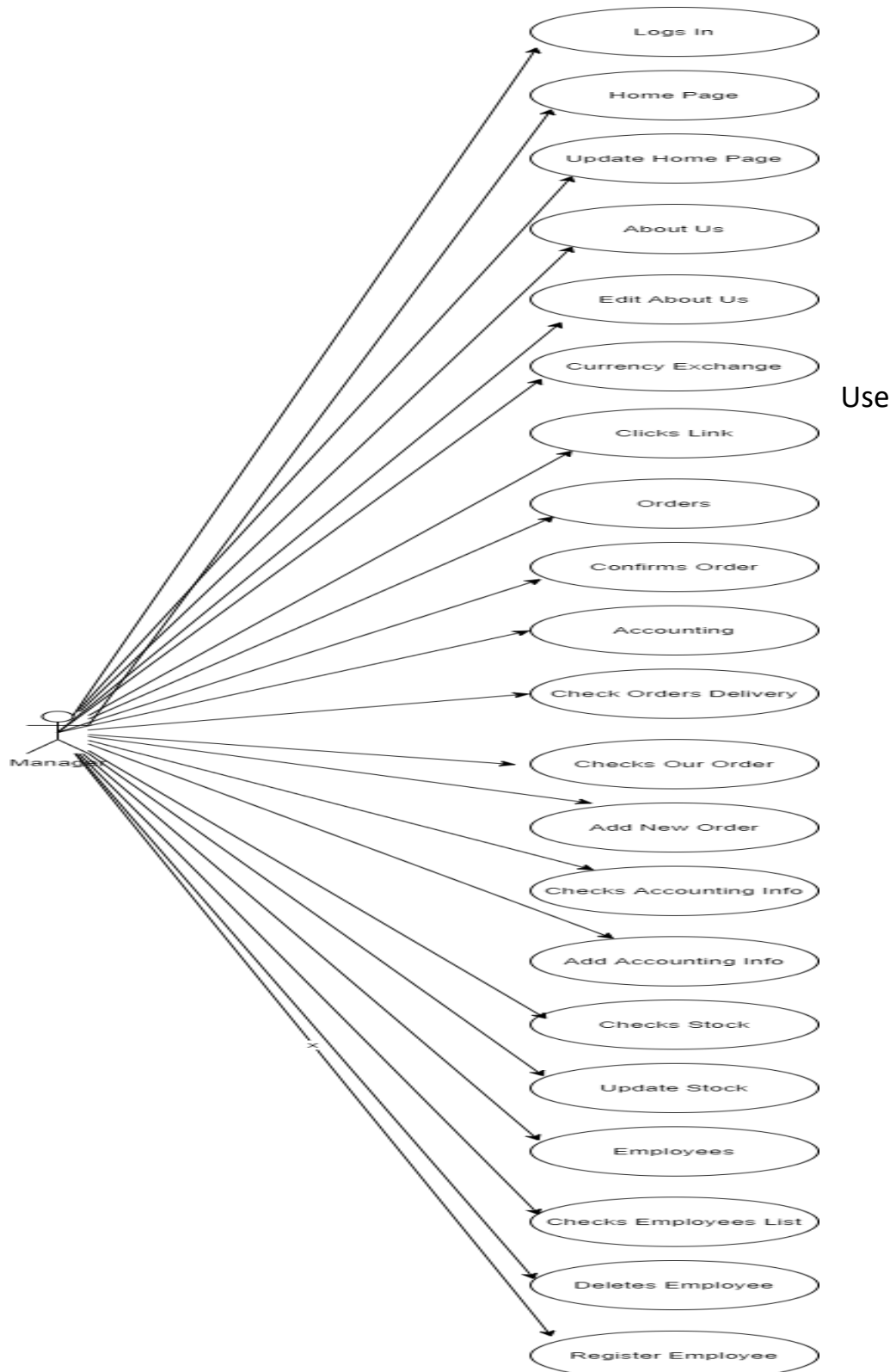
Name	Delivery employee checks the order (UC_29)
Summary	He views the orders marked by warehouse employees.
Actor	Delivery employee
Description	Delivery employee views the order when it is confirmed by the warehouse employees.
Precondition	Delivery employee must be logged in first and there must be orders confirmed.
Alternative	
Post Condition	

Name	Delivery employee marks the order (UC_30)
Summary	When the order is transported to the client, delivery employee marks the order.
Actor	Delivery employee
Description	Delivery employee must mark the order after it is successfully transported to the client.
Precondition	Delivery employee must be logged in first and there must be orders not marked in his account
Alternative	
Post Condition	Manager receives confirmation in his account

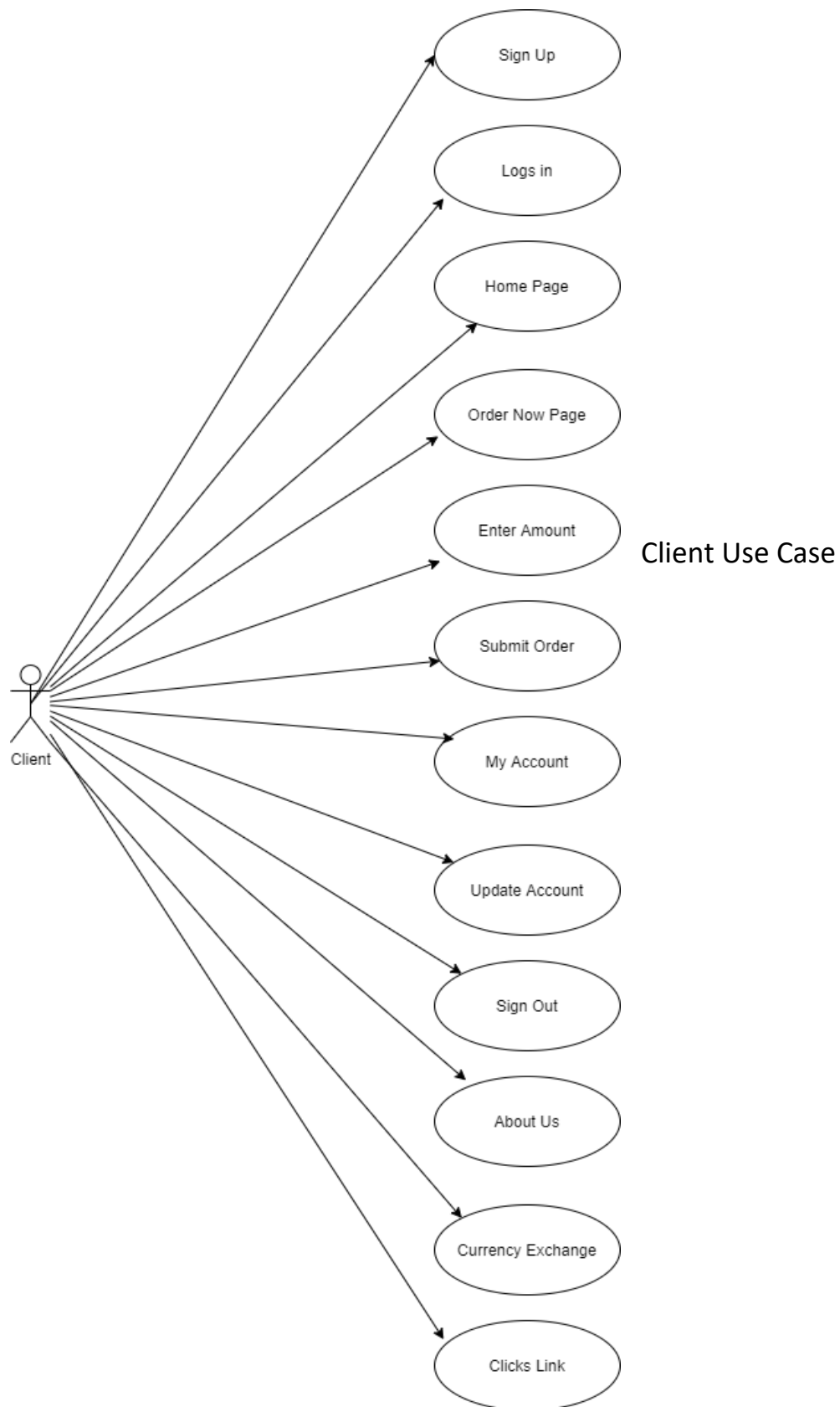
[Distribution System] Requirements Specification

Diagrams

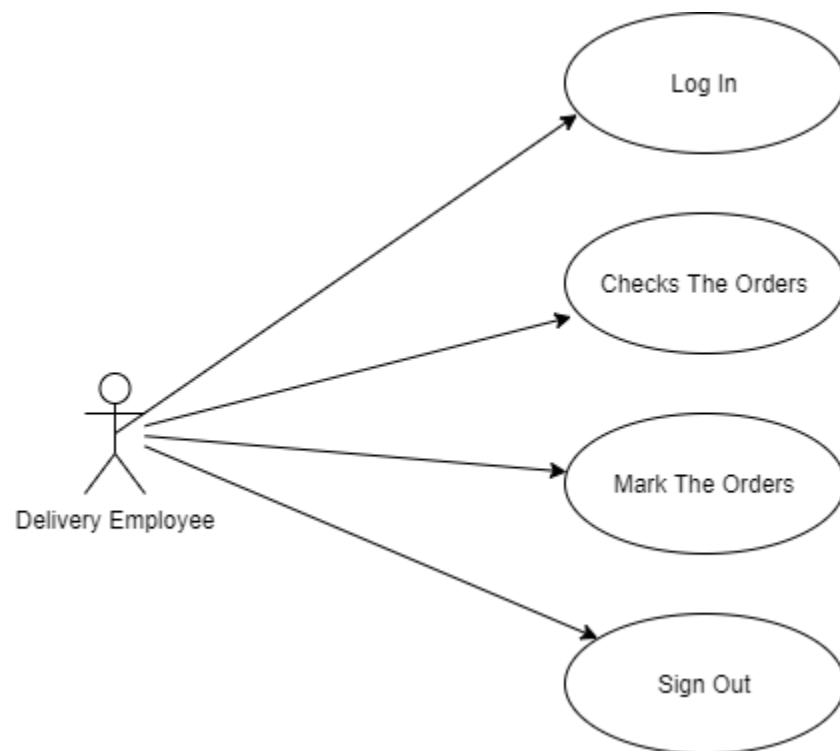
Manager
Case



[Distribution System] Requirements Specification

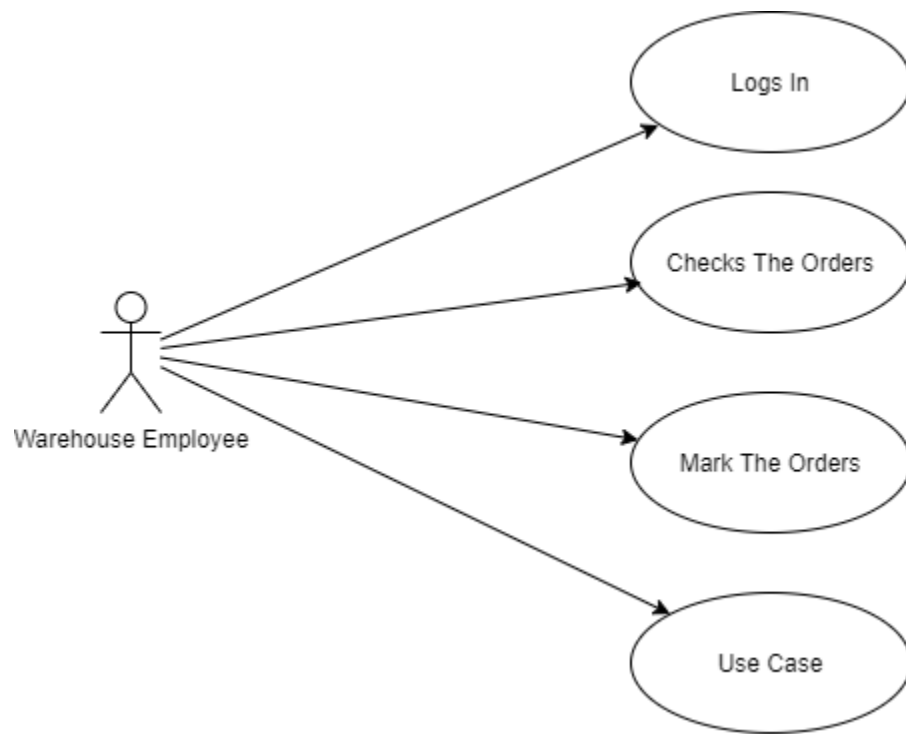


Delivery Employee Use Case



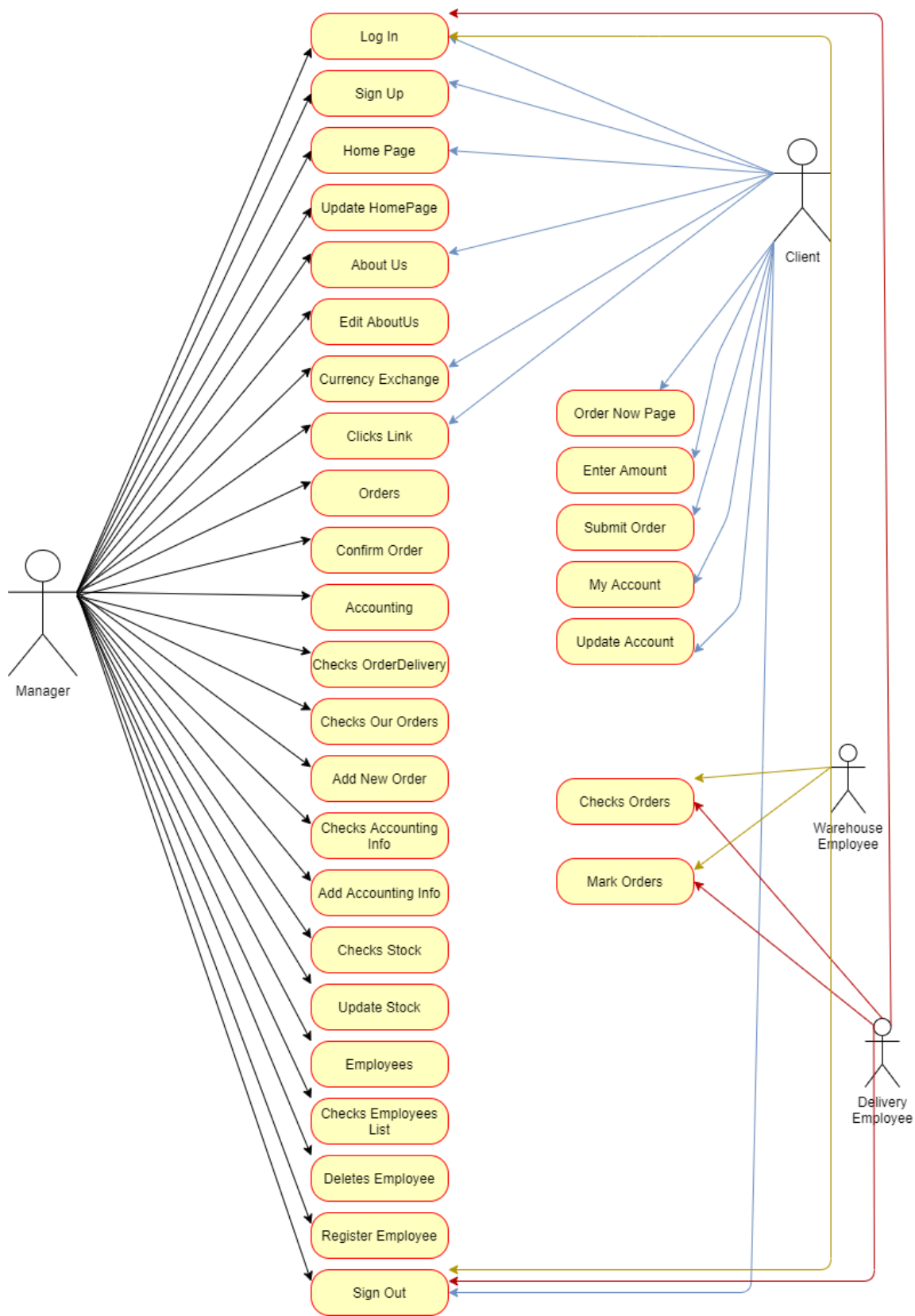
Warehouse Employee Use Case

[Distribution System] Requirements Specification

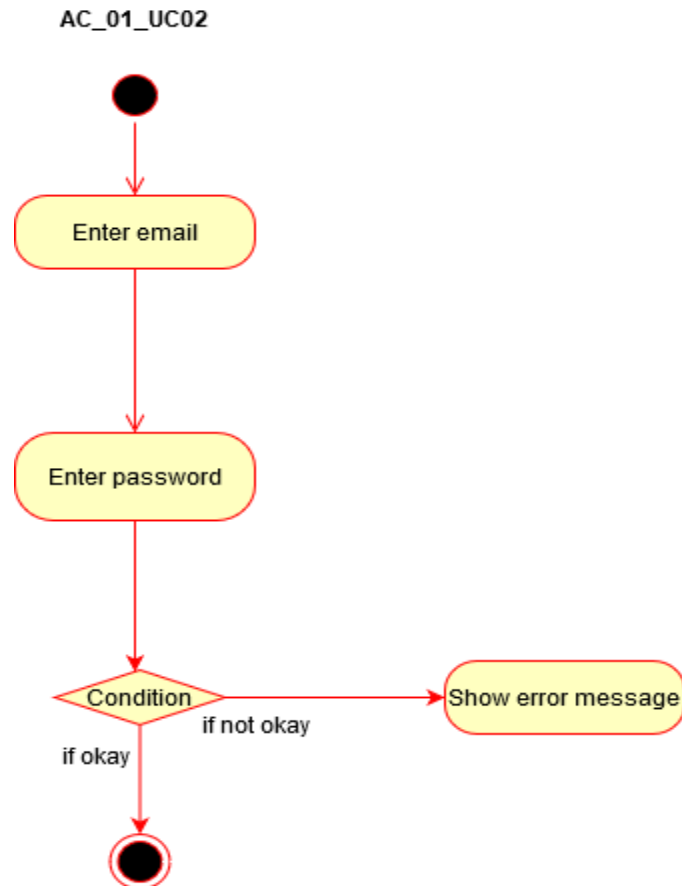


[Distribution System] Requirements Specification

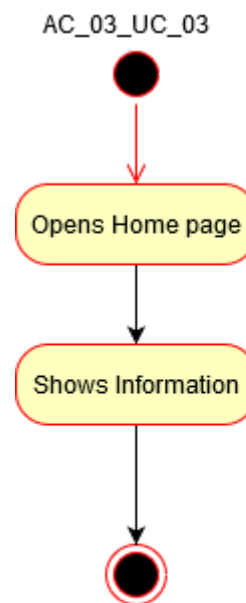
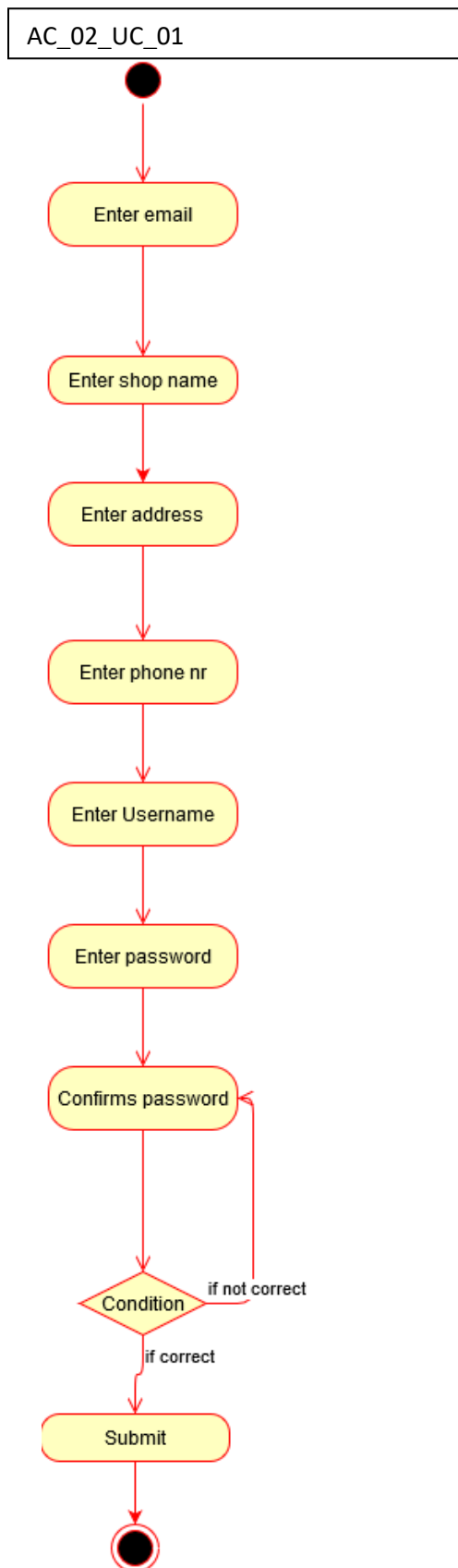
General Use Case



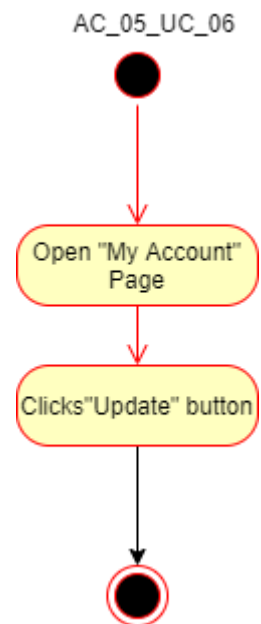
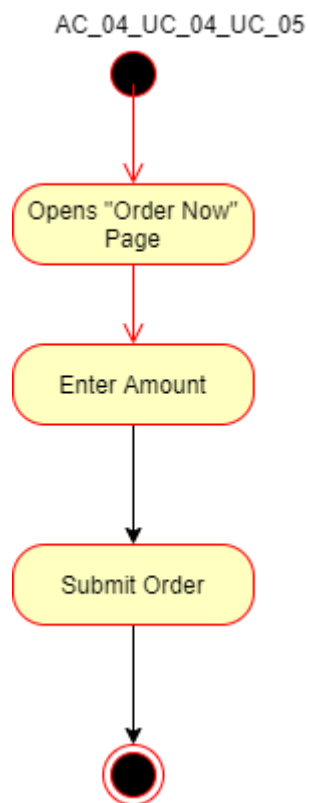
Activity Diagrams



[Distribution System] Requirements Specification

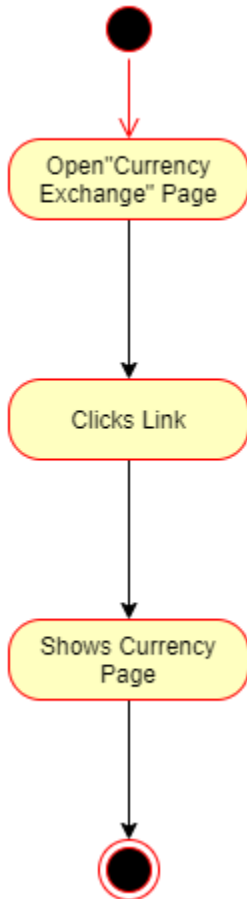


[Distribution System] Requirements Specification

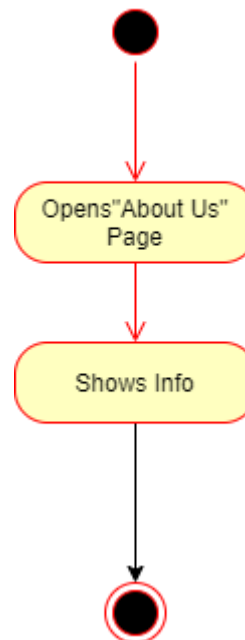


[Distribution System] Requirements Specification

AC_06_UC_07_UC_13

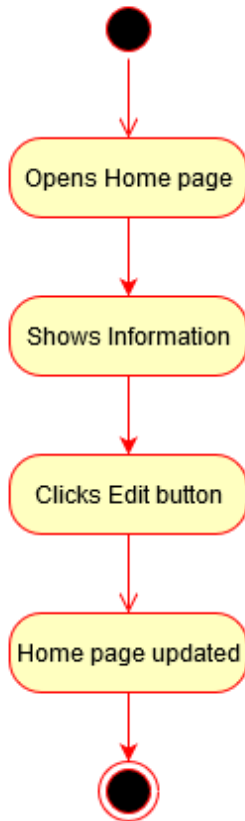


AC_07_UC_07

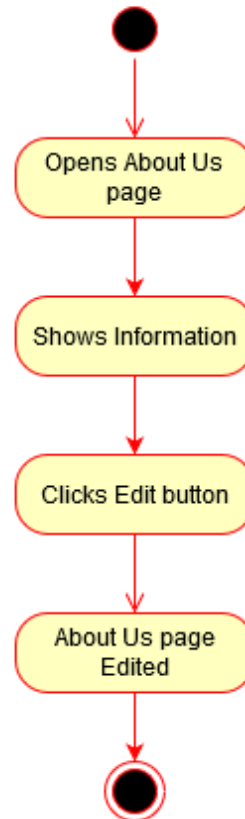


[Distribution System] Requirements Specification

AC_08_UC_09_UC_10

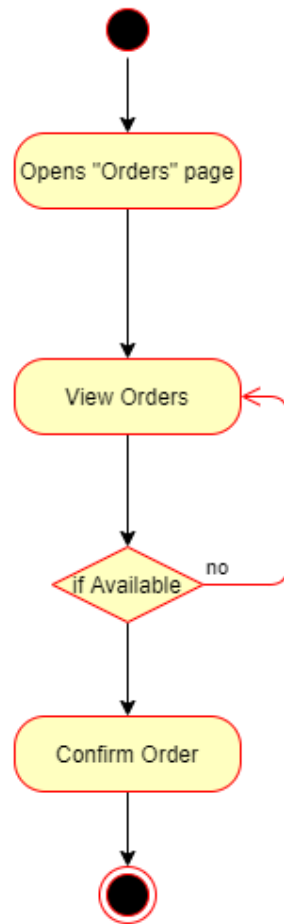


AC_09_UC_11_UC_12



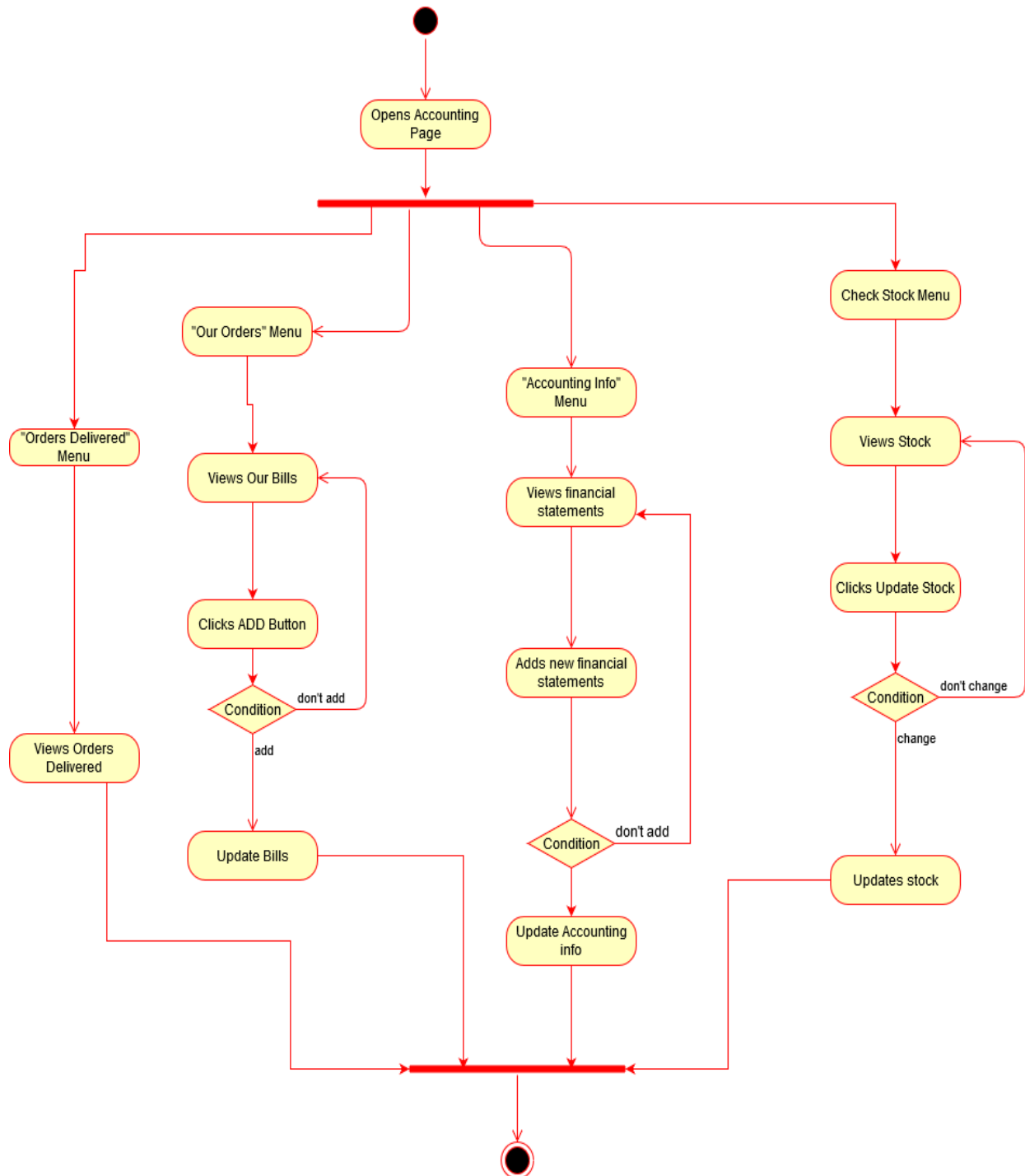
[Distribution System] Requirements Specification

AC_10_UC_14_UC_15

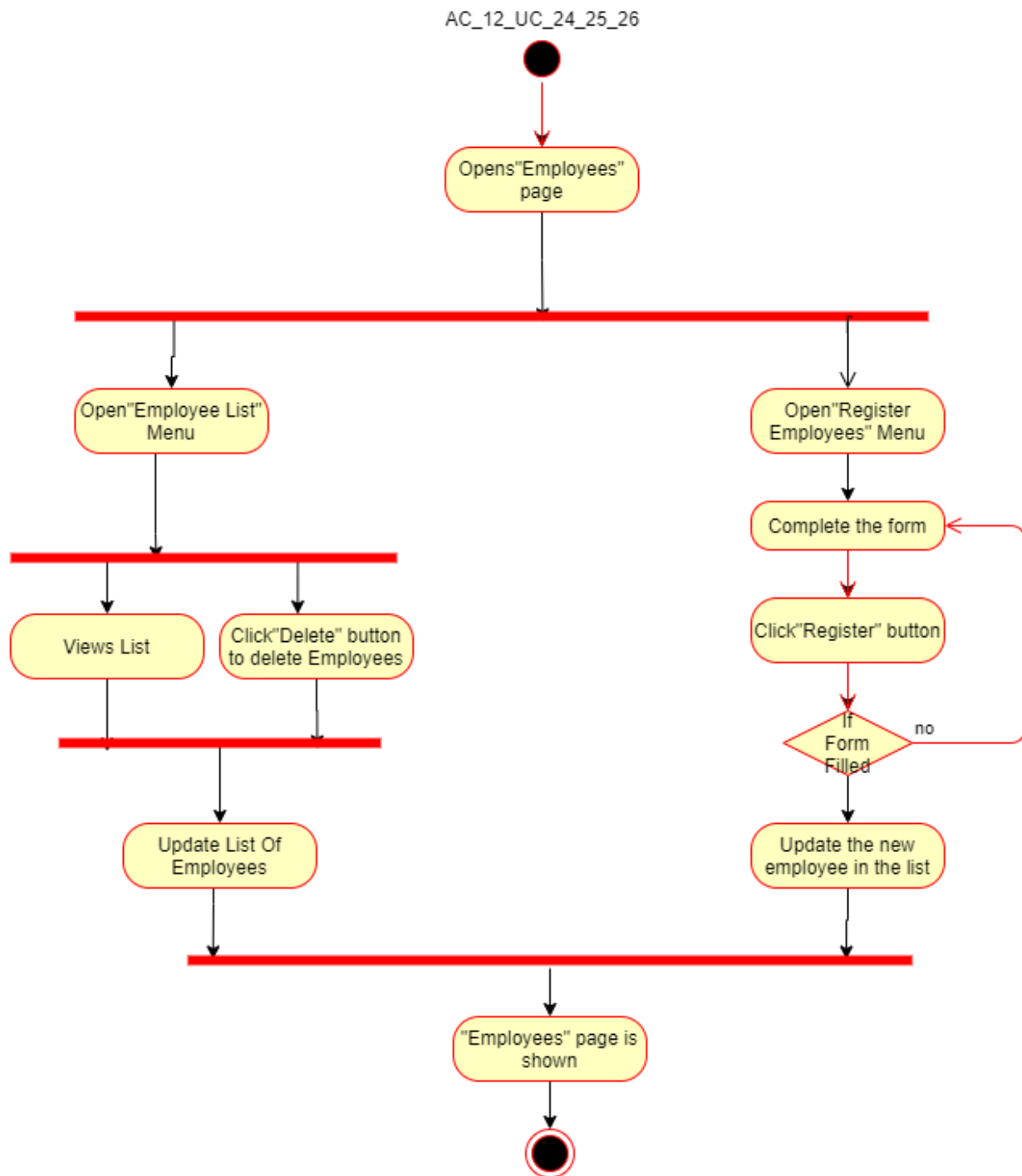


[Distribution System] Requirements Specification

AC_11_UC16_17_18_19_20_21_22_23

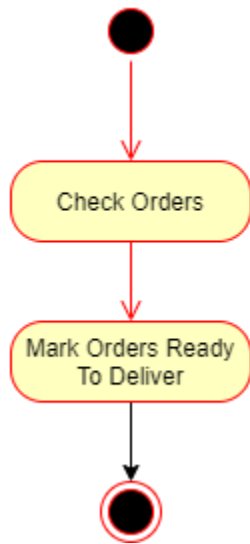


[Distribution System] Requirements Specification

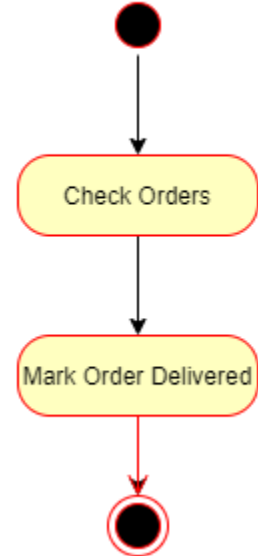


[Distribution System] Requirements Specification

AC_13_UC_27_UC_28

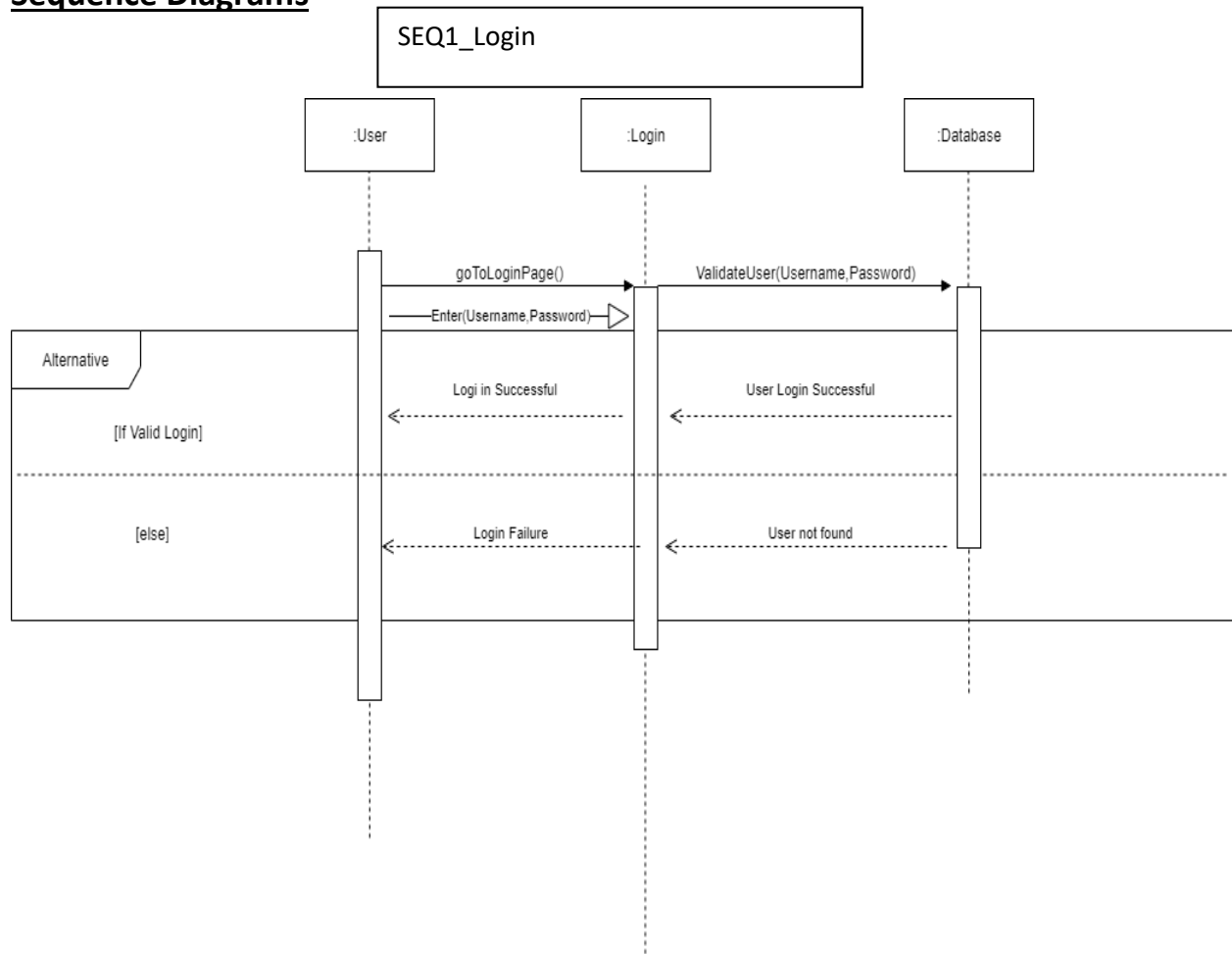


AC_14_UC_25_UC_30

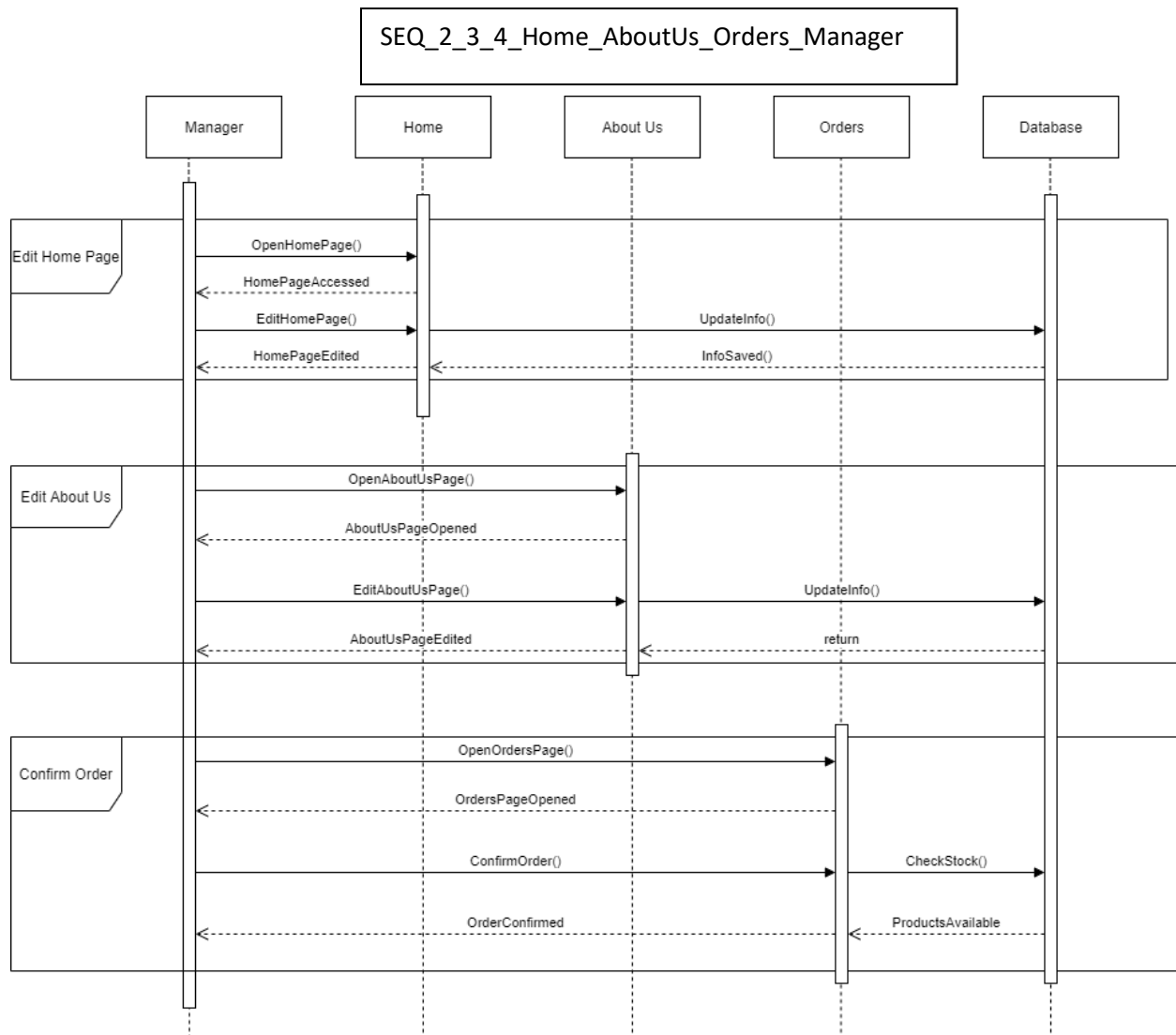


[Distribution System] Requirements Specification

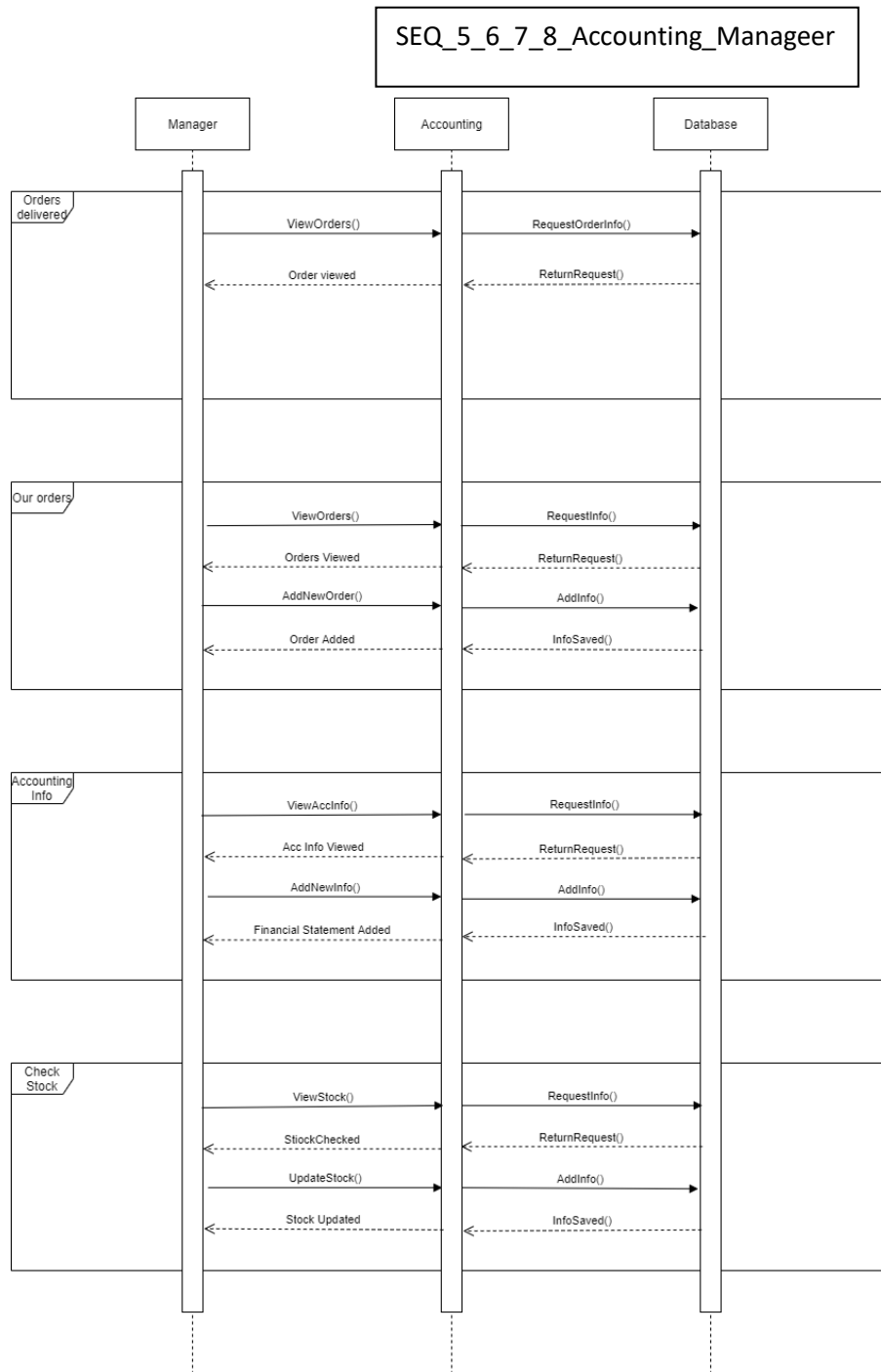
Sequence Diagrams



[Distribution System] Requirements Specification

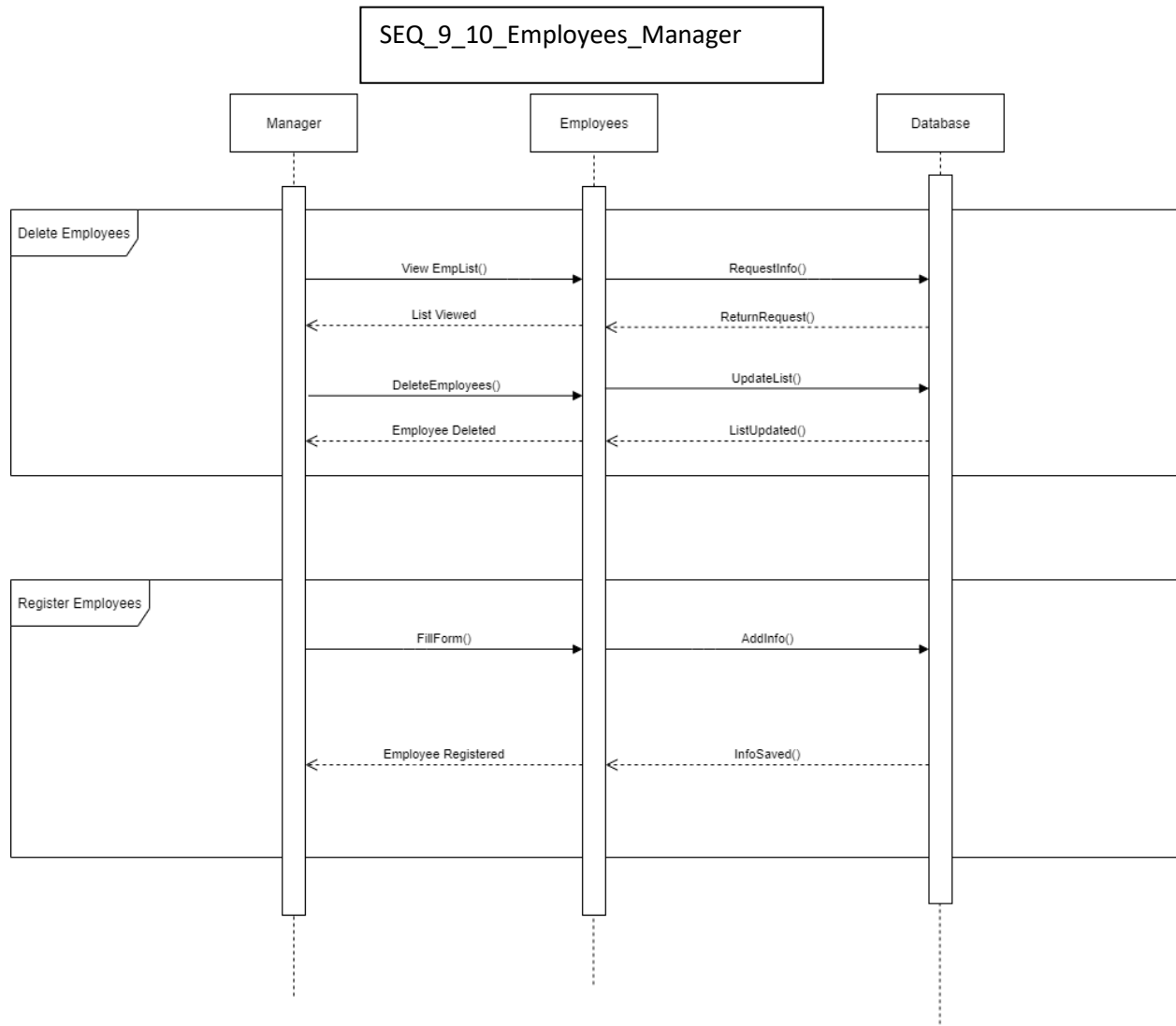


[Distribution System] Requirements Specification



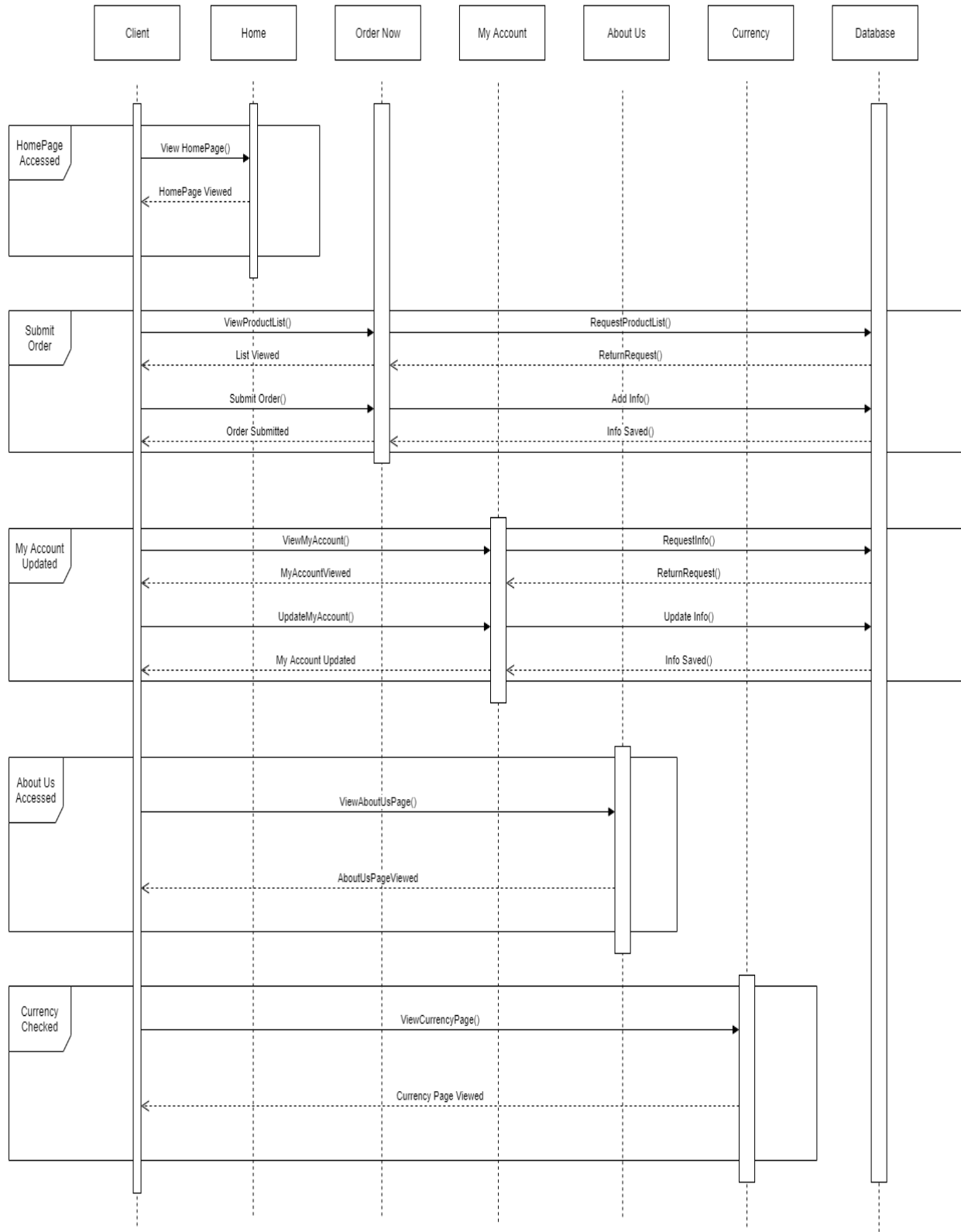
Text

[Distribution System] Requirements Specification

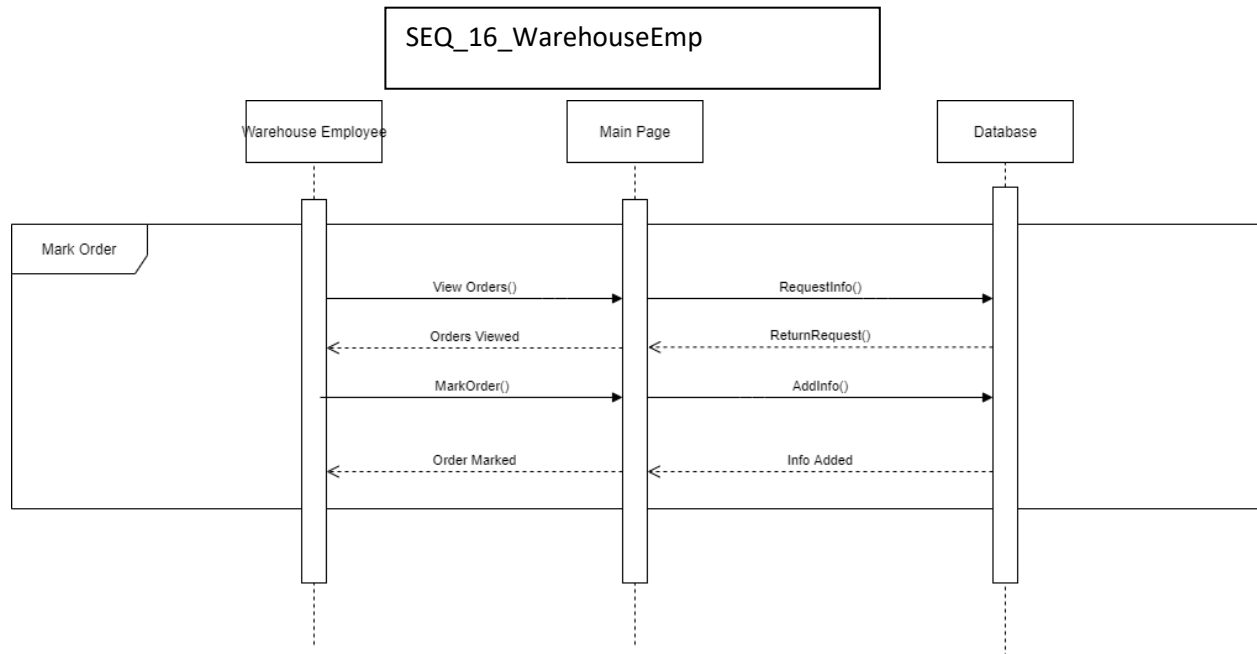


[Distribution System] Requirements Specification

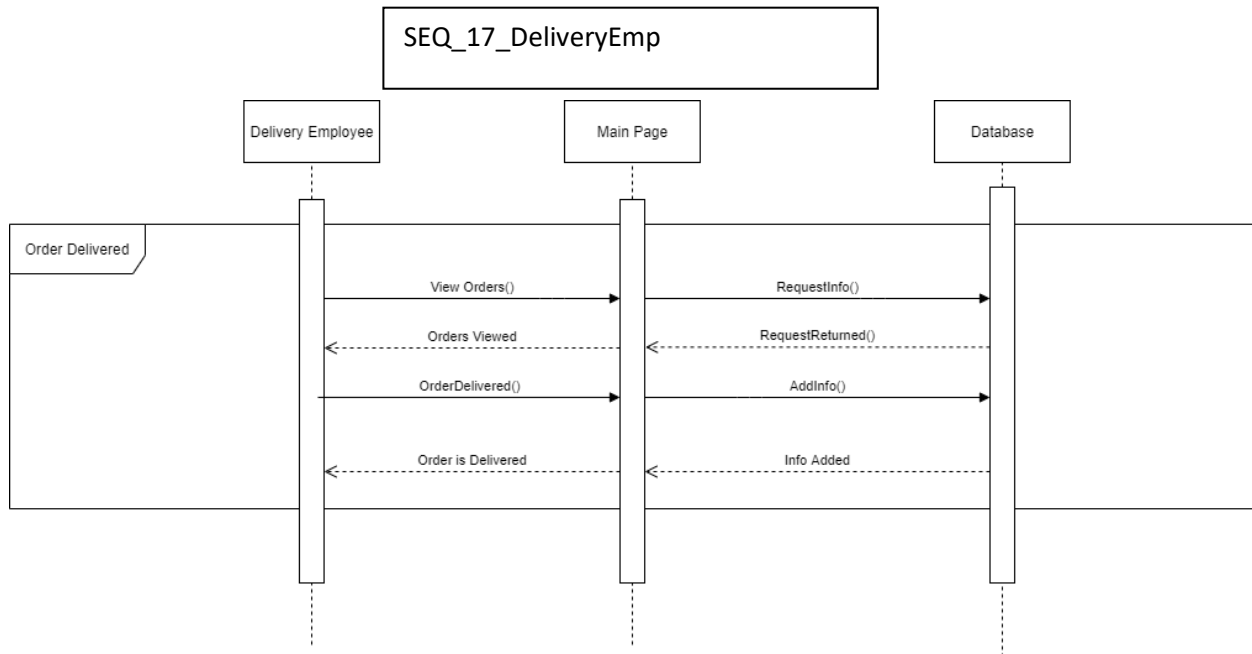
SEQ_11_12_13_14_15_Client



[Distribution System] Requirements Specification

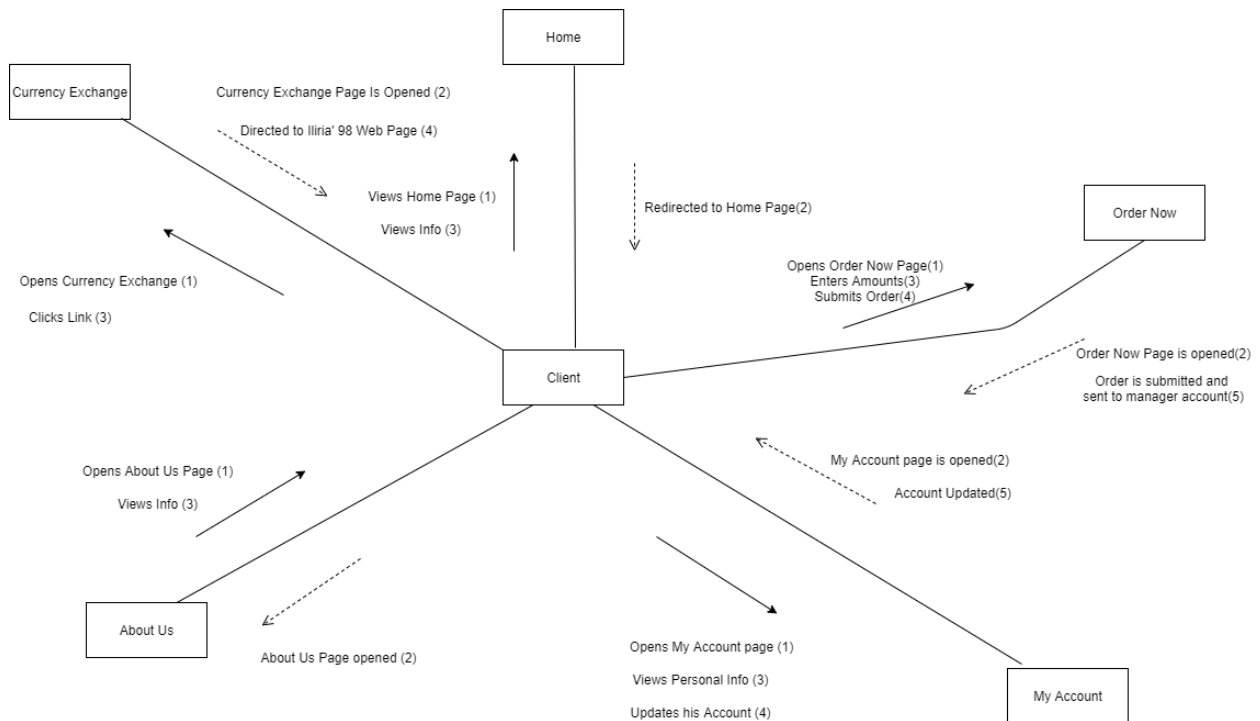


[Distribution System] Requirements Specification



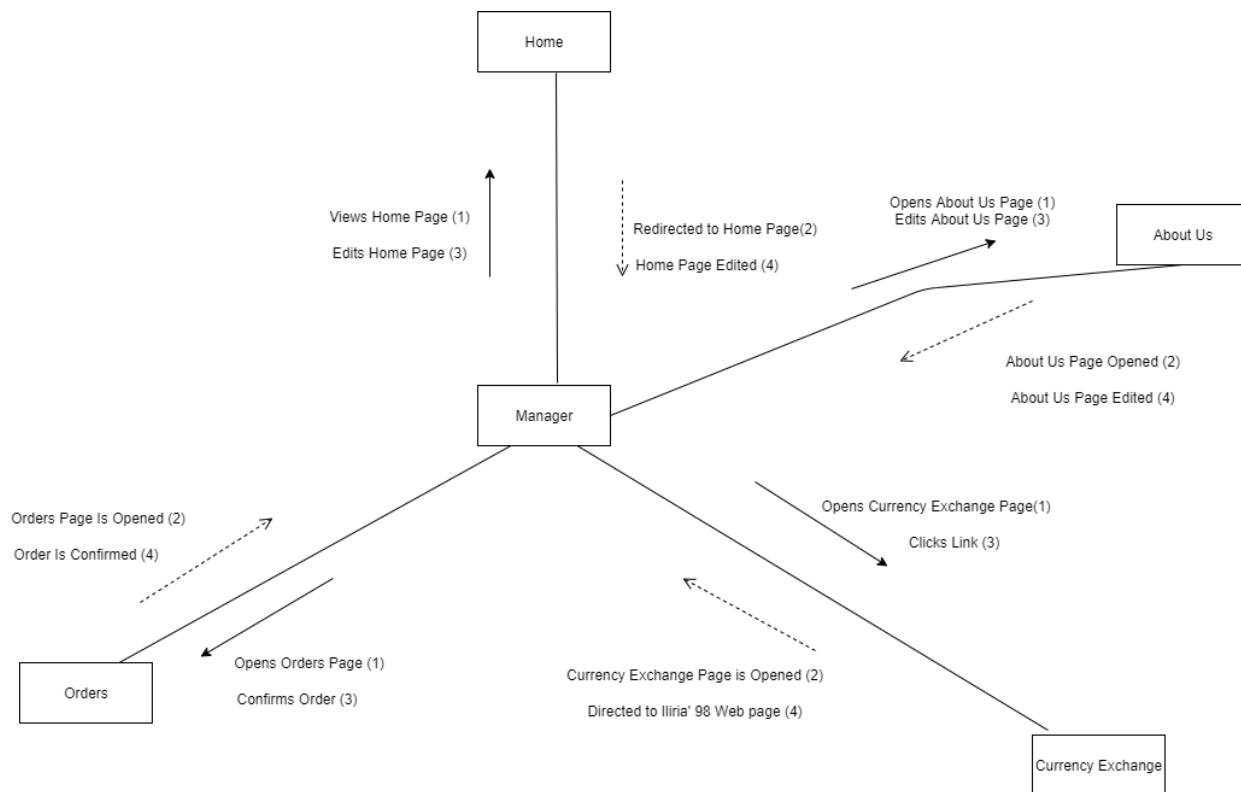
Collaboration Diagrams

CD_Client



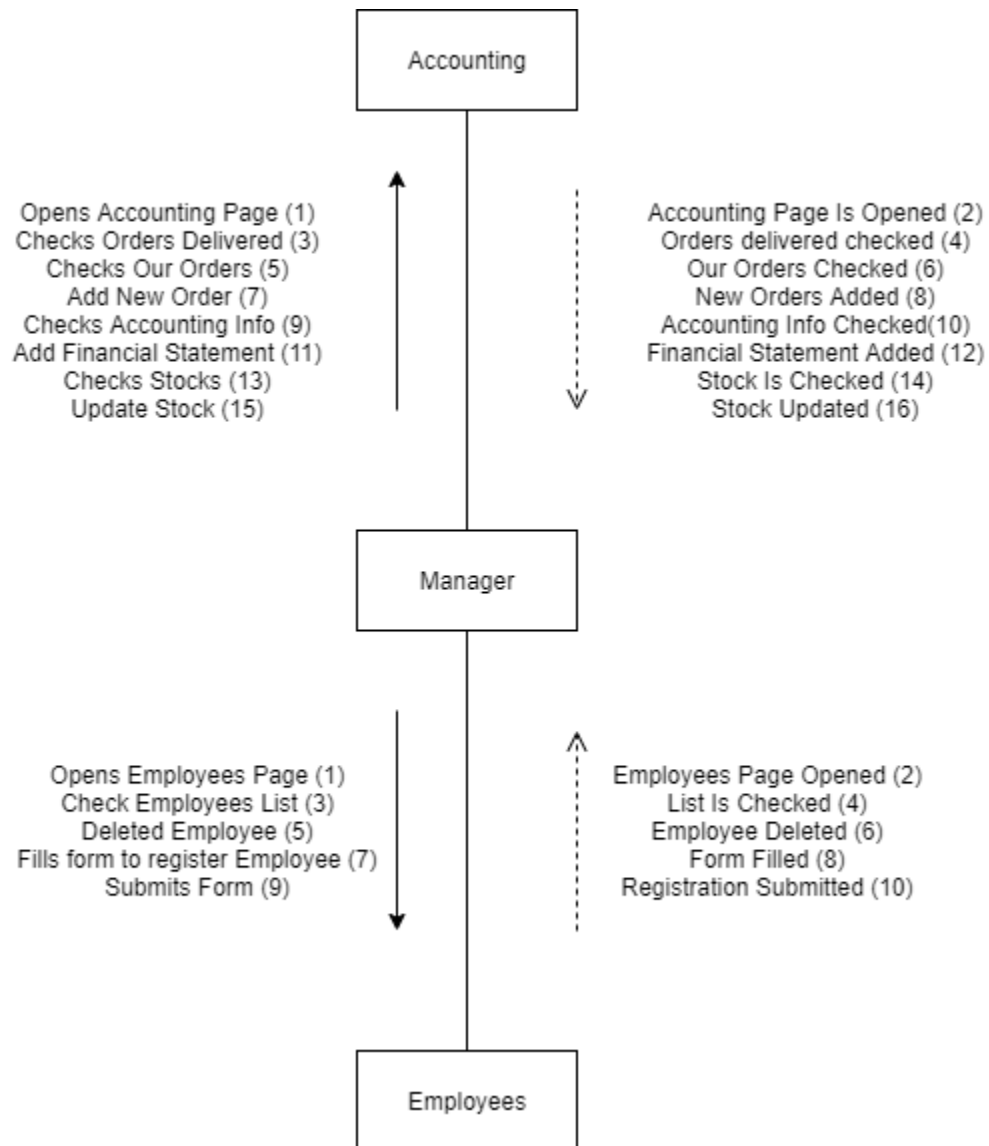
[Distribution System] Requirements Specification

CD_Home_AboutUs_Orders_Currency_Manager



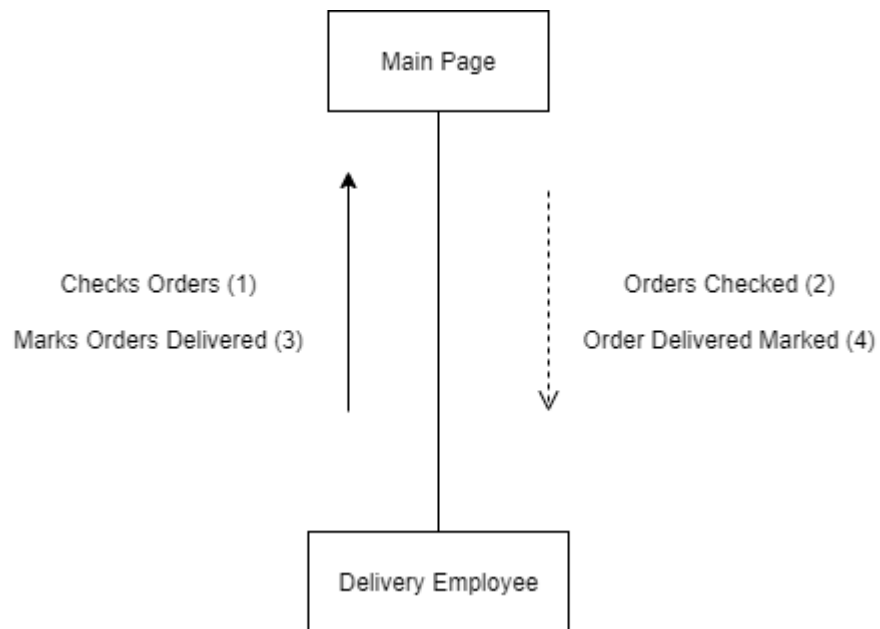
[Distribution System] Requirements Specification

CD_Accounting_Employees_Manager



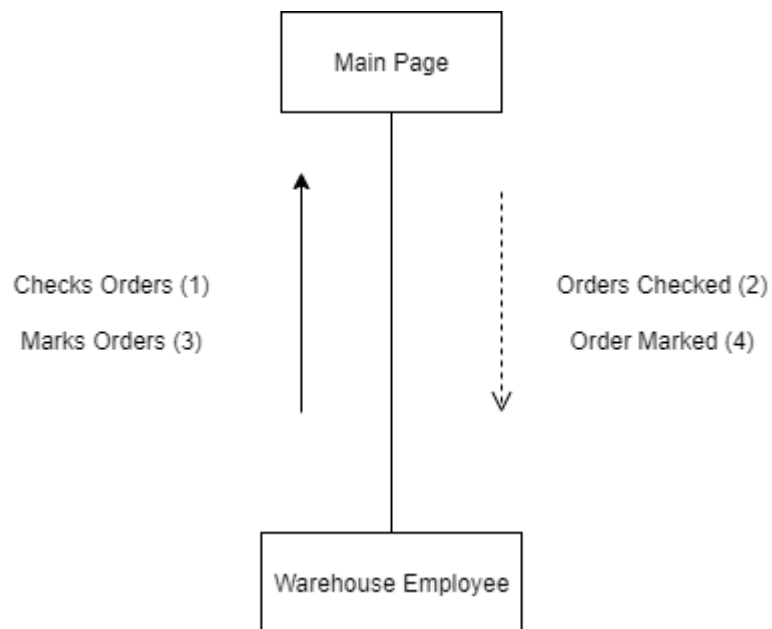
[Distribution System] Requirements Specification

CD_DeliveryEmployee



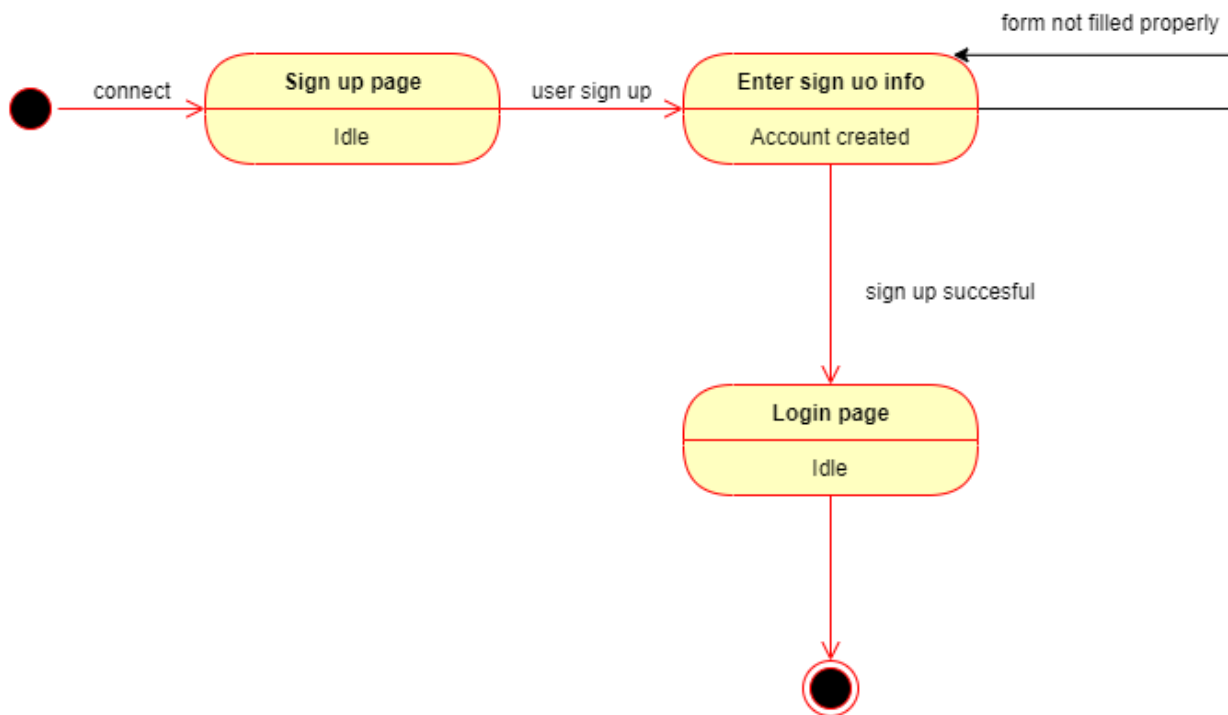
[Distribution System] Requirements Specification

CD_WarehouseEmployee



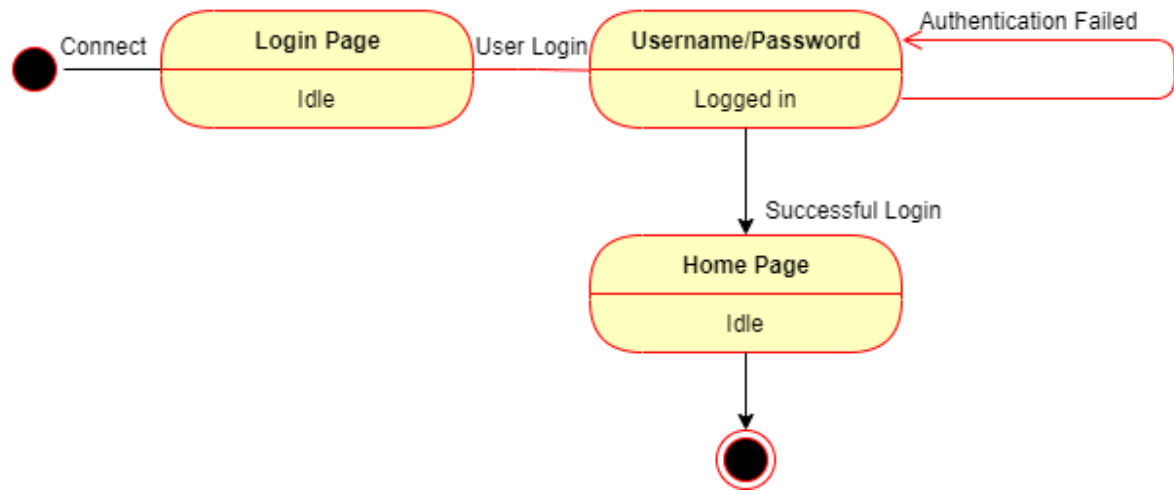
State Diagrams

ST_01_SignUpClient

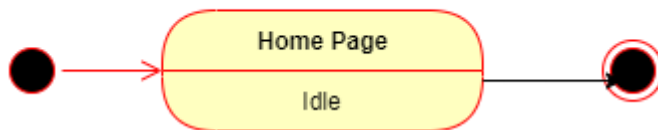


[Distribution System] Requirements Specification

ST_02 Login

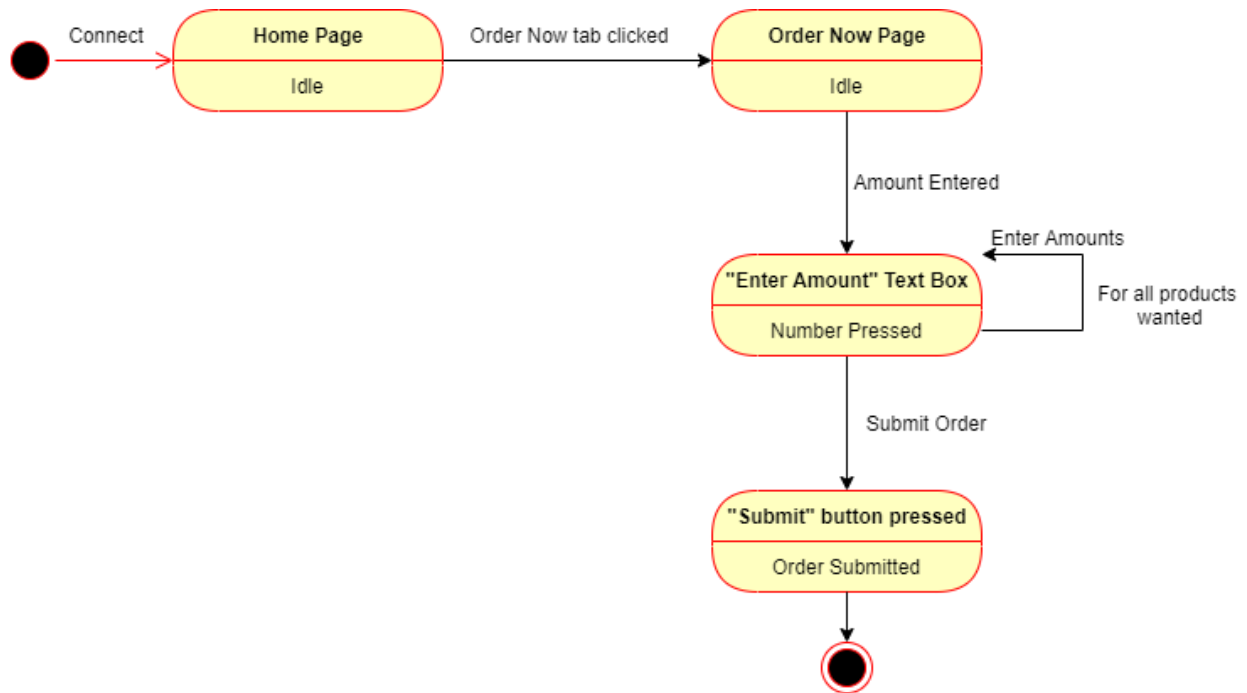


ST-03 Homepage

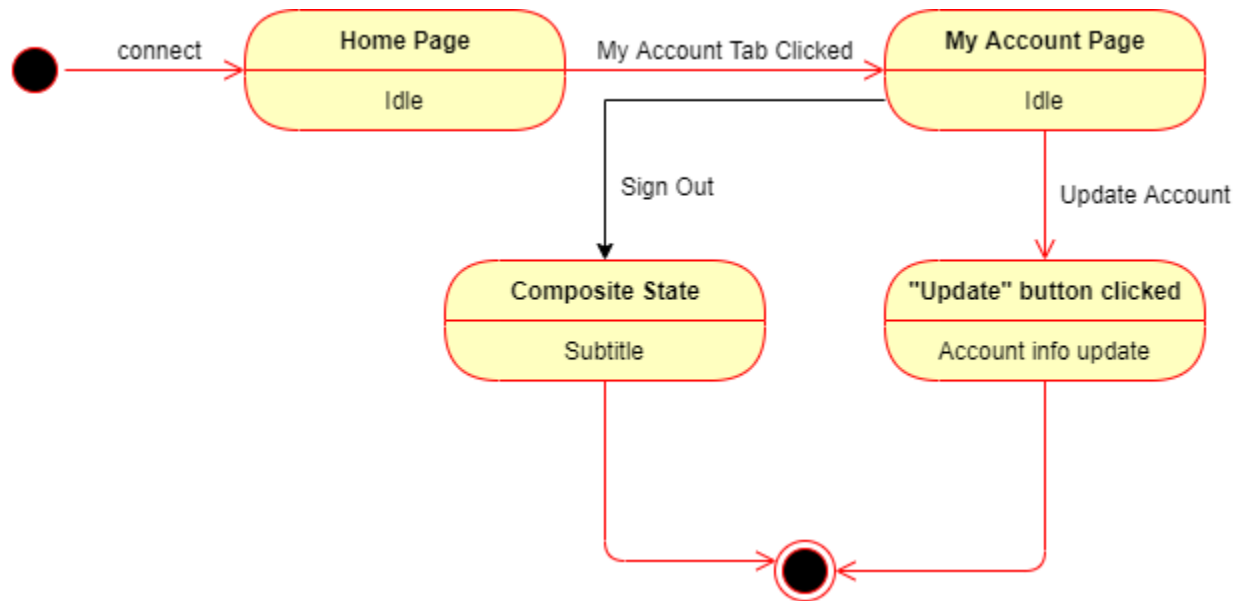


[Distribution System] Requirements Specification

ST_04 OrderNowClient



ST_05 MyAccountClient

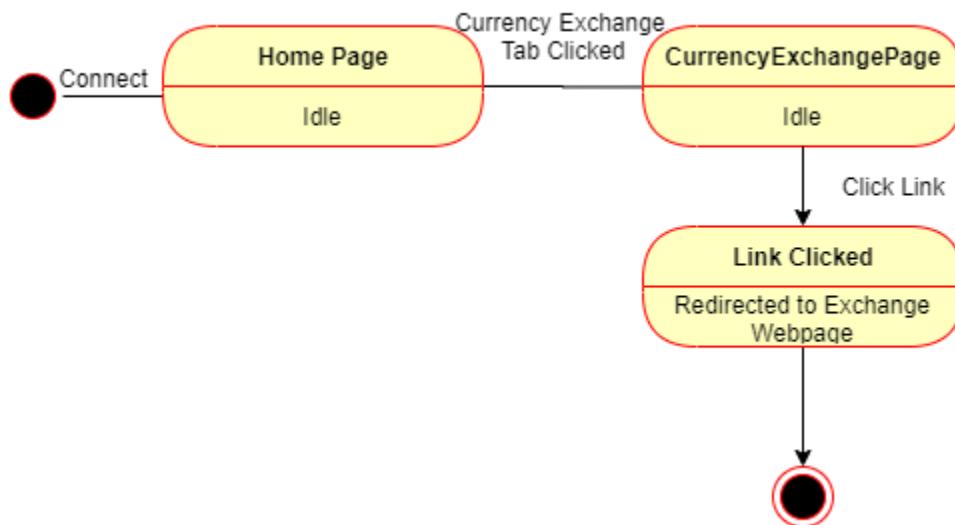


[Distribution System] Requirements Specification

ST_06_AboutUsClient

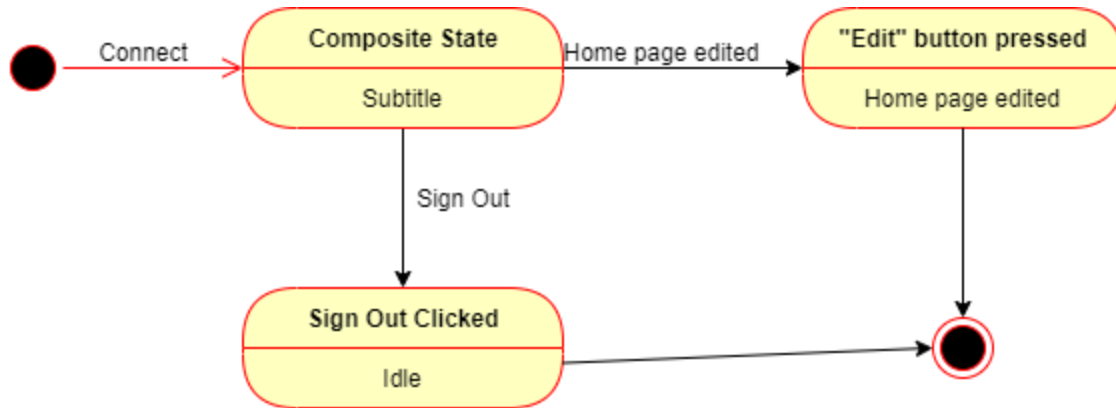


ST_07_CurrencyClient

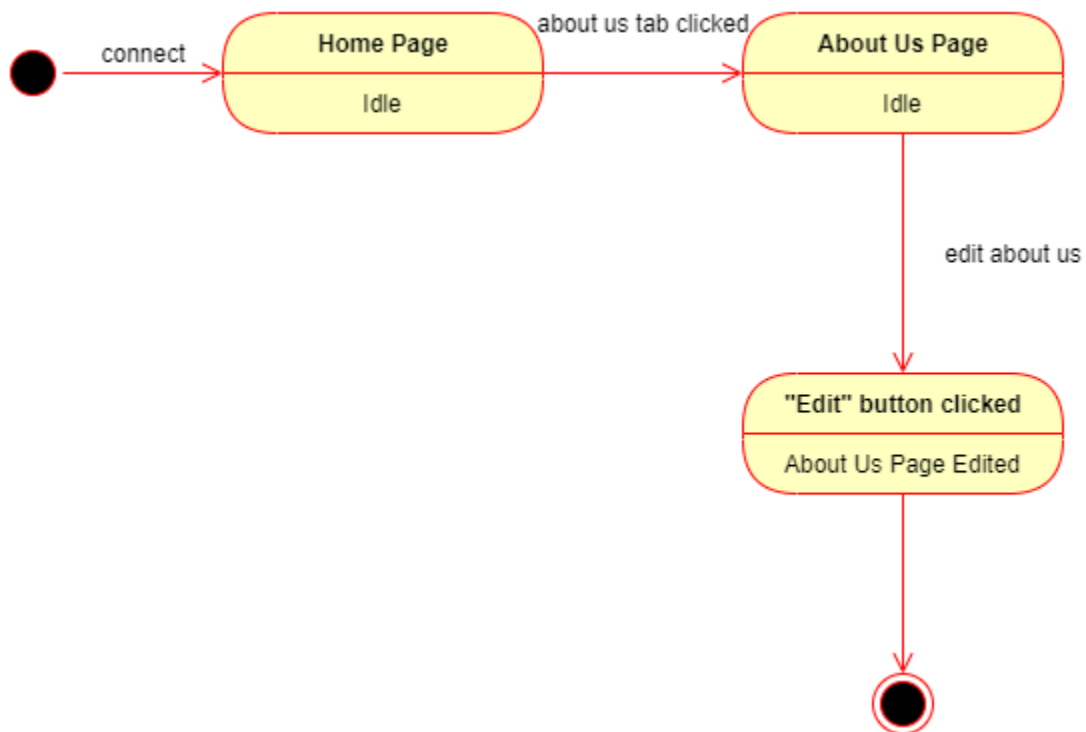


[Distribution System] Requirements Specification

ST_08 HomeManager



ST_09 AboutUsManager

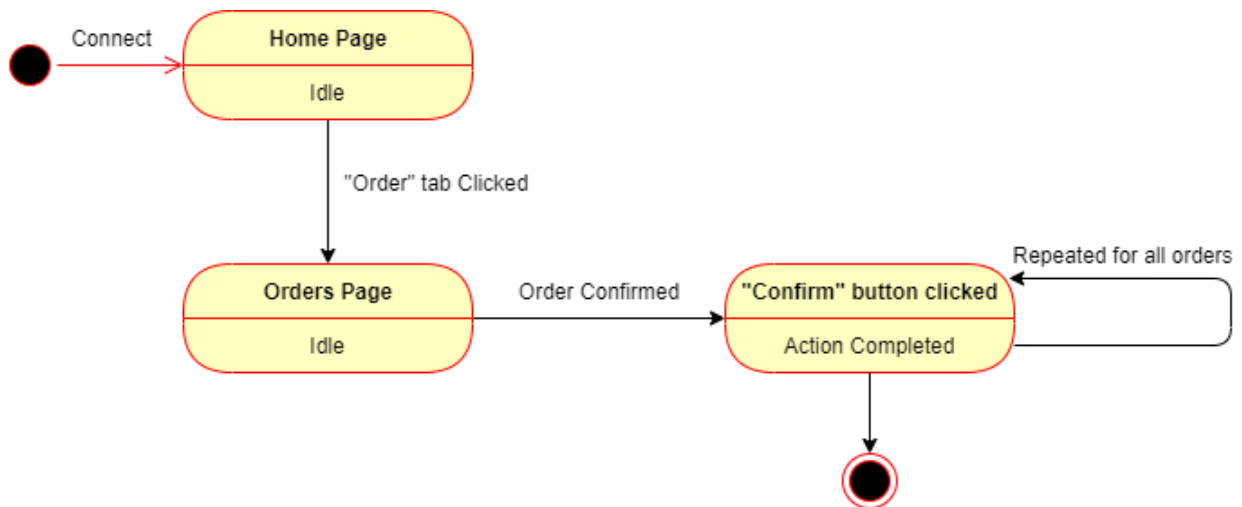


[Distribution System] Requirements Specification

ST_10 CurrencyManager

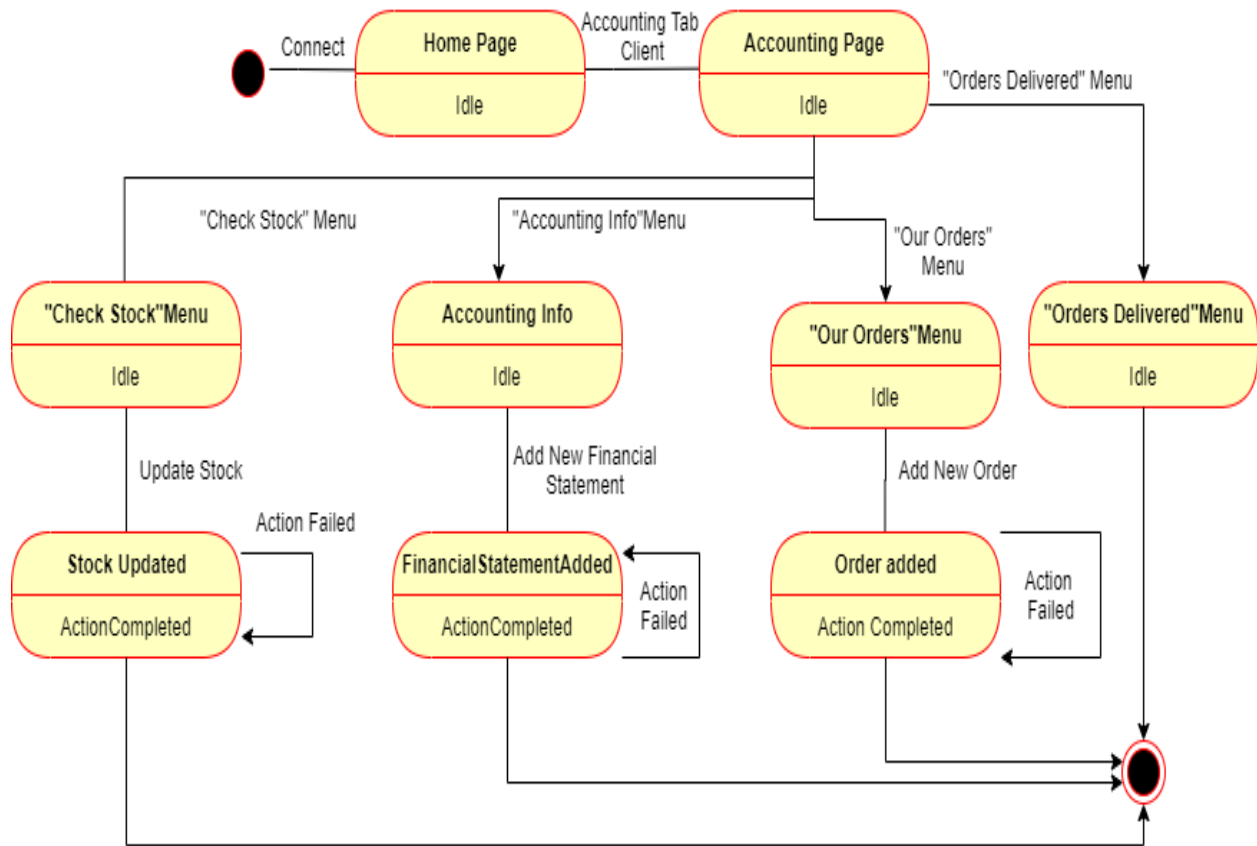


ST_11 OrderManager



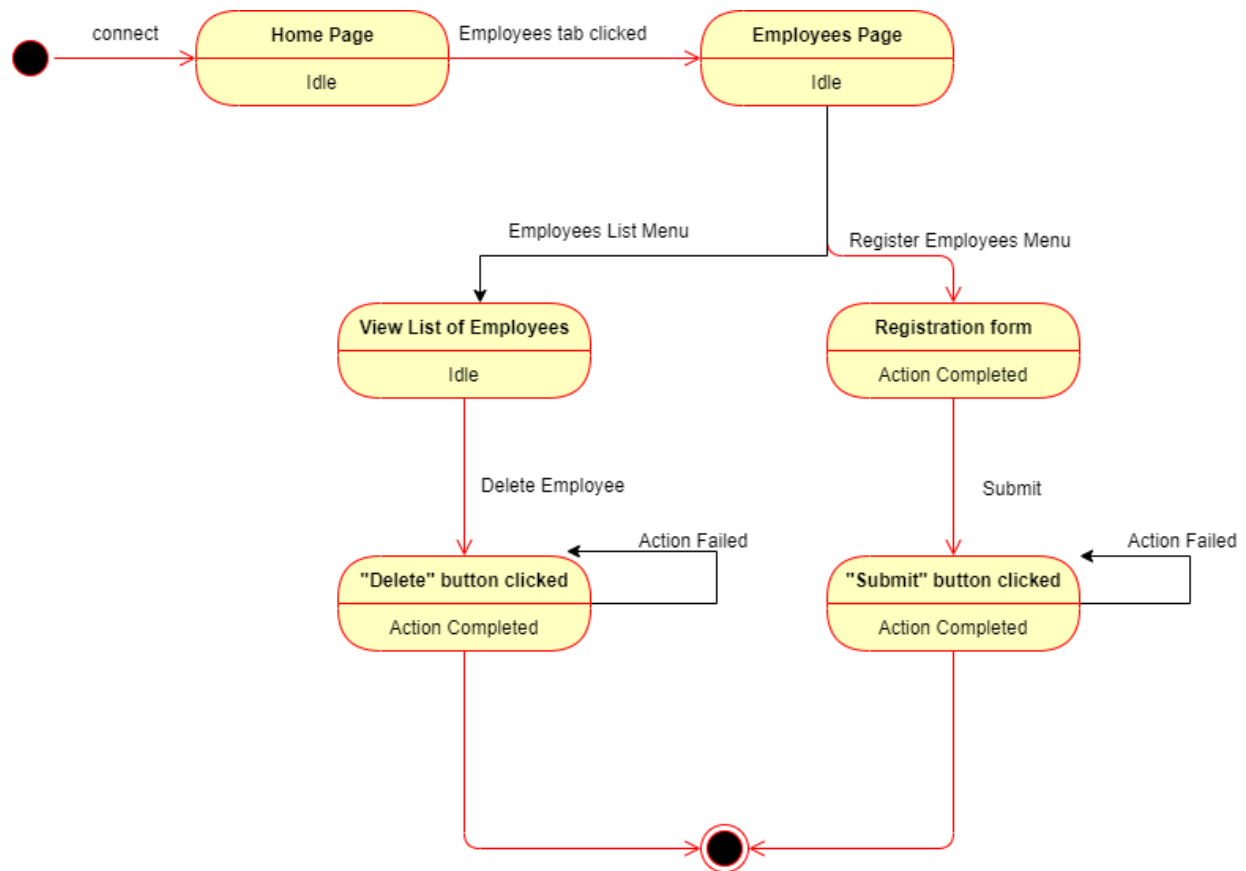
[Distribution System] Requirements Specification

ST_12_AccountingManager

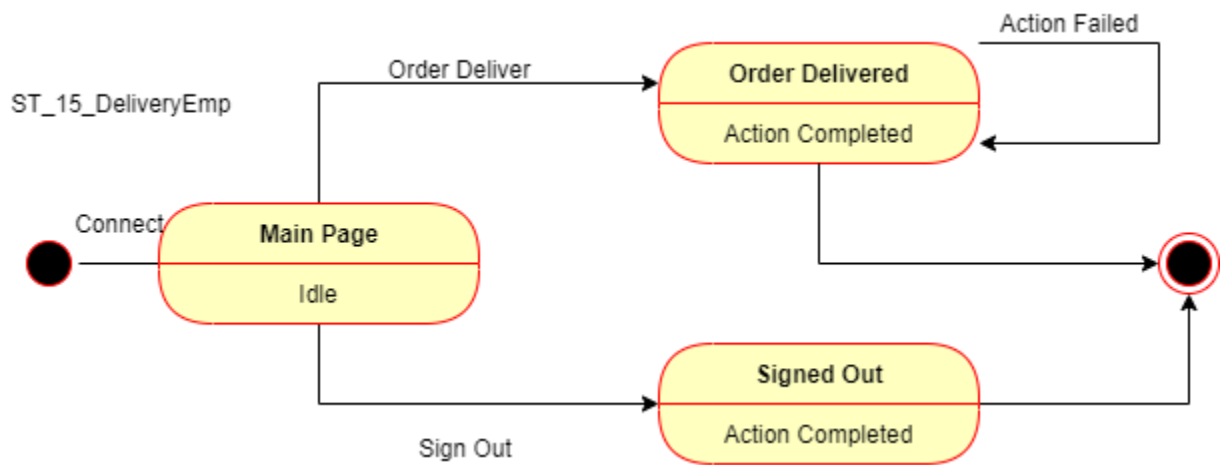
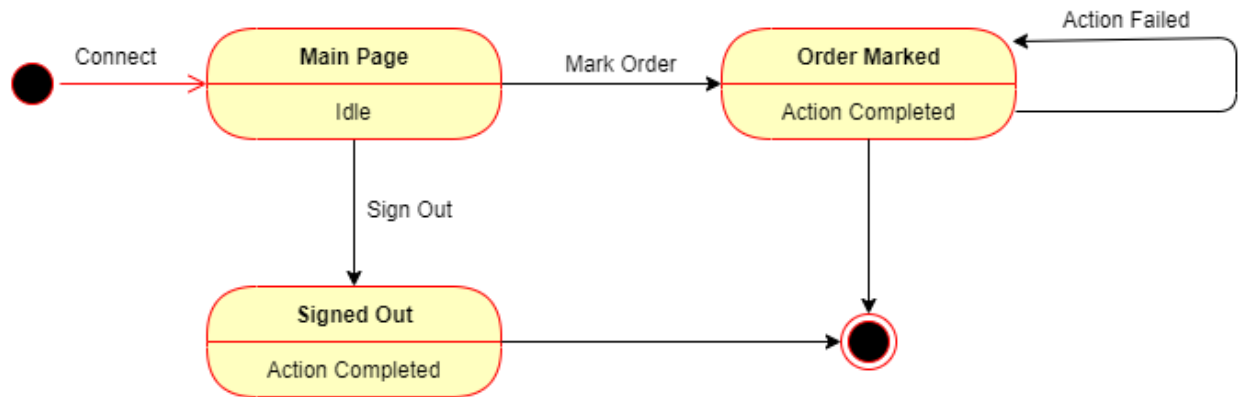


[Distribution System] Requirements Specification

ST_13_EmployeesManager

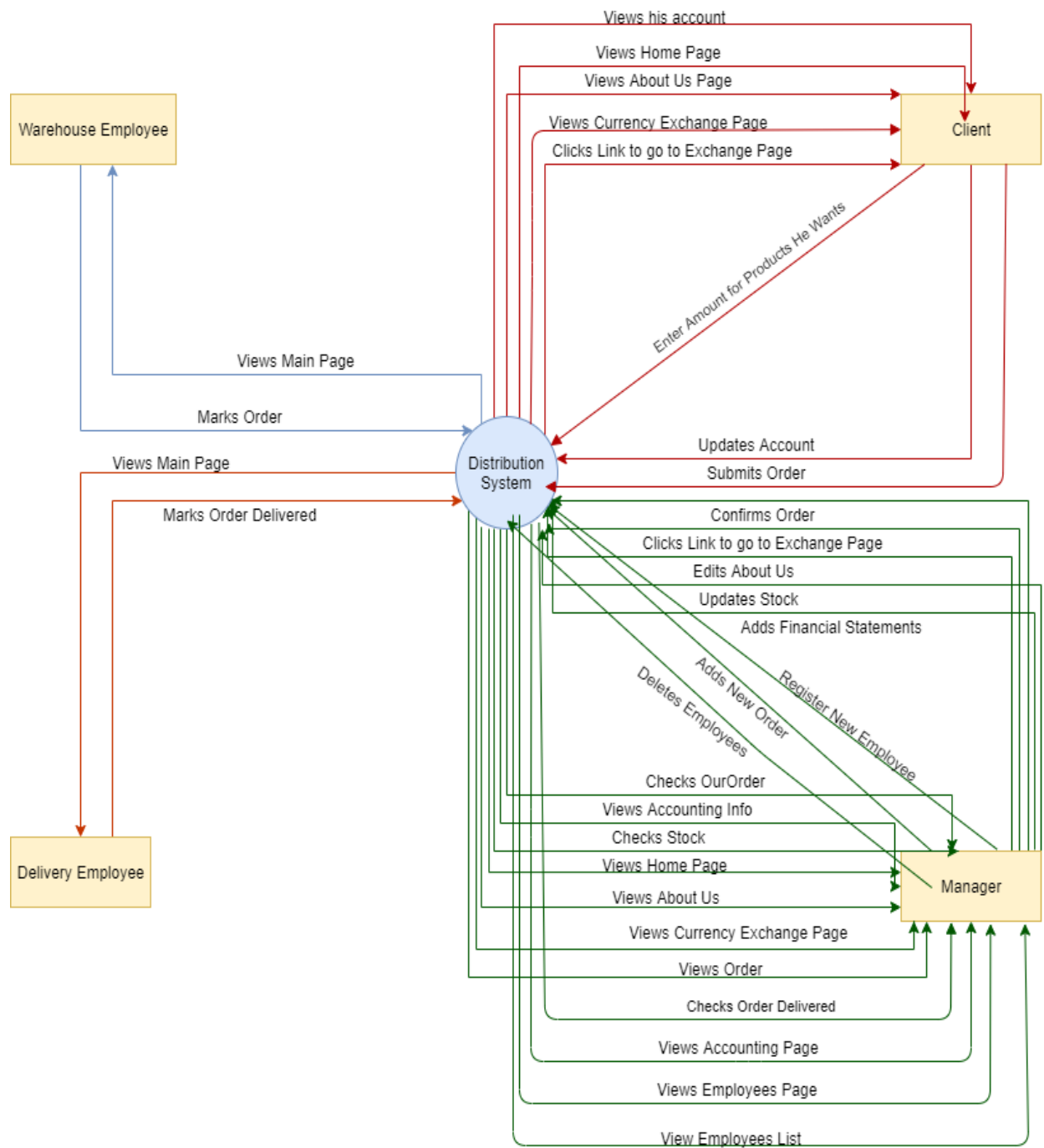


ST_14 WarehouseEmployee



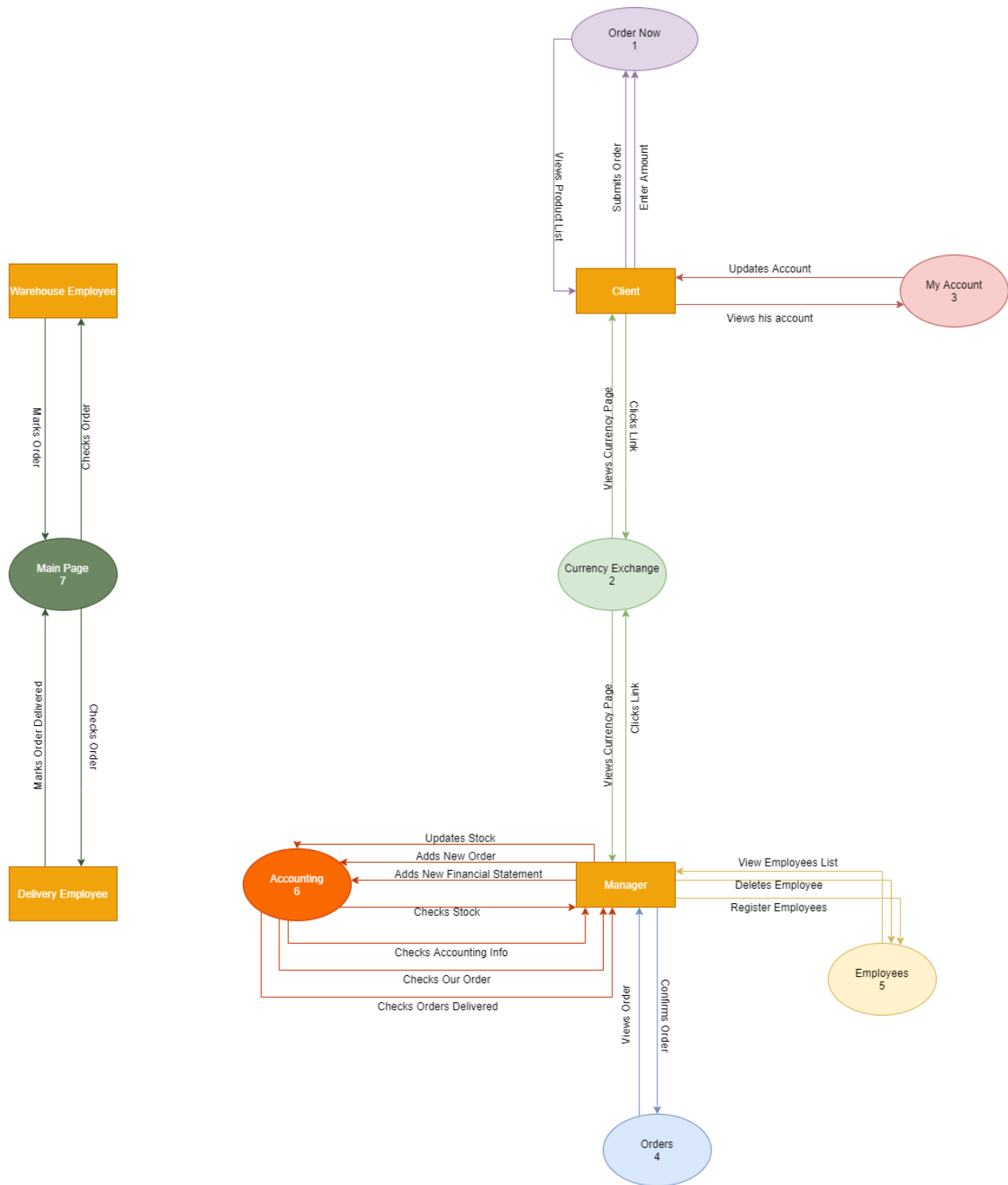
[Distribution System] Requirements Specification

DFD 0

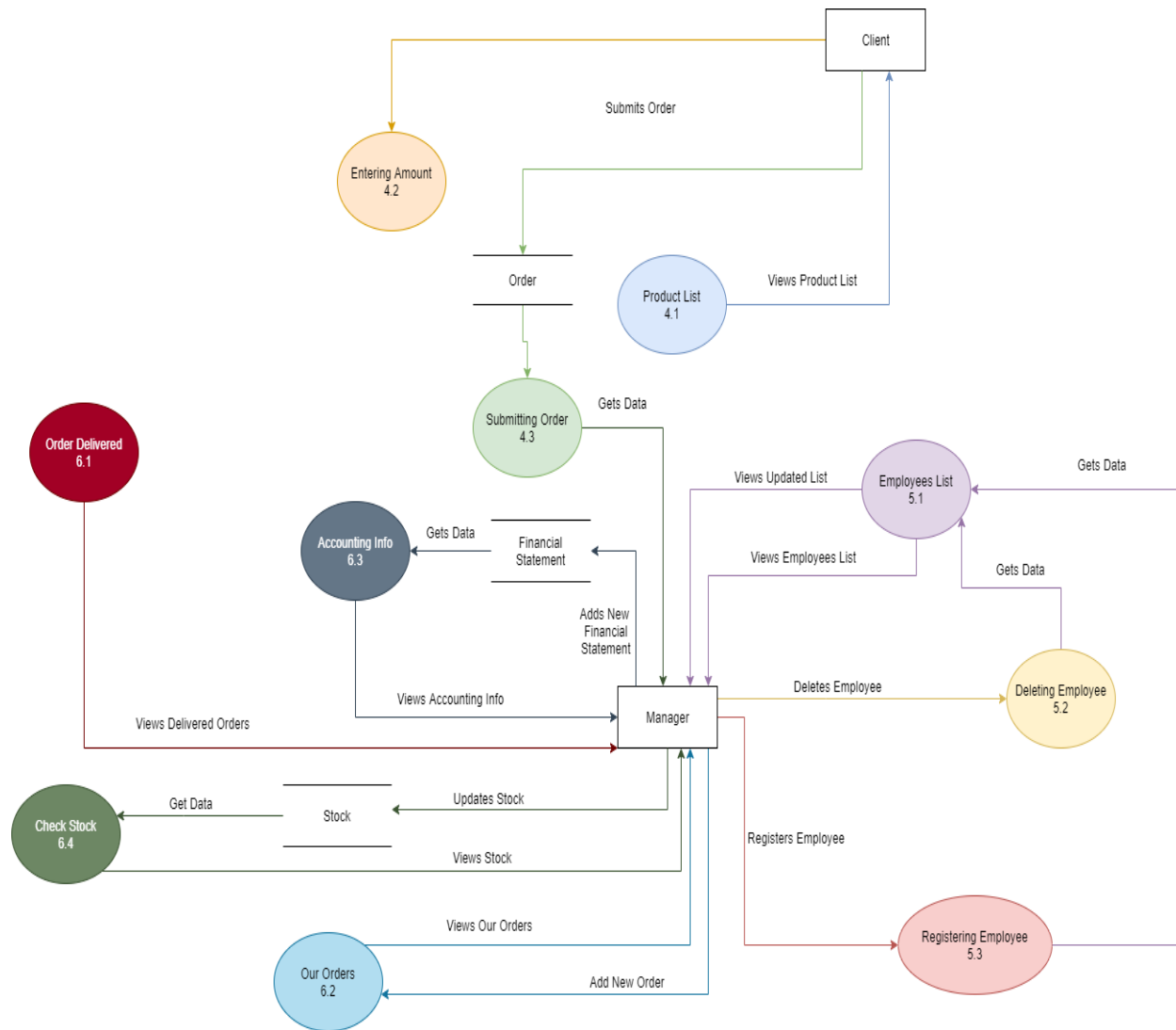


[Distribution System] Requirements Specification

DFD 1



DFD 2 OrderNow-Employee-Accounting(Processes)



[Distribution System] Requirements Specification

ER Diagram

