



PROJECT: Online Cloth Shopping Store

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1 Introduction

1.1 Purpose:

This document is meant to depict the characteristics of online cloth shopping store (OCSS), in order to guide the developers as well as provides the validation document to the clients as well.

This OCSS will enable the customers and sellers to communicate and make the deals without meeting each other, just through the internet. This system will enable the customer to make or cancel the orders just by sitting at homes. The customers can choose the dresses of their choices even they can return or exchange the dresses after delivery.

1.2 Abbreviations, Acronyms and Definition:

- OCSS Online Cloth Shopping Store
- DFD Data Flow Diagram
- Log-in E-Mail A user identification E-Mail to enter the system
- Password A combination required to gain access to system.
- SRS Software Requirement Specification
- HTML, JAVA, etc. Programming Languages to develop a software.
- OS Operating System
- Windows, iOS, etc. OS build by companies to run application software

1.3 Document Convention:

The priorities of this system are high except in case of feedback, all other records including order acceptance or cancellation, log-in, log-out would be quickly accommodated.

1.3.1 Convention for Main Titles:

- Font-Face: Bell MT
- Font-Size: 20
- Font-Style: **Bold**

1.3.2 Convention for Sub Titles:

- Font-Face: Bell MT
- Font-Size: 18
- Font-Style: **Bold**

1.3.3 Convention for Subtest Titles:

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- Font-Size: 16
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1.3.4 Convention for Text:

- Font-Face: Bell MT
- Font-Size: 14
- Font-Style: Plane

1.3.5 Convention for Use Case Descriptions:

- Font-Face: Bell MT
- Font-Size: 16
- Font-Style: Plane

1.4 Product Scope:

This document will act as a basis for validation of final product. The major goal of this system is to meet the requirements of the customers by delivering them the product of their choice including quality, size, price etc.

1.5 Intended Audience and Reading Suggestions:

This paper is meant to be read by the developers in order to make the final software product. Moreover, the managers, users, testers, marketing staff of the project and the documentation writers can read this document in order to suggest other features as well. Furthermore, this document will explain the user interface, functionality, non-functional requirements, software, hardware and communication interfaces.

2 Overall Description

The Online Cloth Shopping system (OCSS) enables customers to browse through the categories and items, and a system administrator to manage categories, items and customers. The developer is designing this online shopping site to manage the items in the shop and also help customers to purchase them online without visiting the shop physically. The online shopping system will use the internet as the sole method for selling goods to its consumers.

2.1 Product Prospective:

This product aimed toward a person who don't want to visit the shop as he/she might be busy or don't get time for that or might not interested in visiting there and dealing with lot of formalities.

2.2 Product Functions:

- Items Management
- Category Management
- User Management
- Order Management
- Invoice Management
- Shipment Management

2.3 User Characteristics:

User should be familiar with the terms like login, register, order system, shopping cart etc. The user should also be familiar with the internet.

2.4 Operating Environment:

The Online Shopping System (OSS) is an application that will operate on all famous Operating Systems like Windows, Android, iOS, etc.

2.5 Design and Implementation Constraints:

2.5.1 Memory:

Device will have 2GB internal Hard drive.

2.5.2 Internet:

A full working internet connection is required.

2.5.3 Operating System:

This application will require any famous Operating System like Windows, Android, iOS, etc. to run.

2.5.4 User Documentation:

The User can download this Online Shopping System App from Play Store for Android OS, from App Store for iOS and from Microsoft Store for Windows OS. For ordering items, user has to open the app and register. After registering, user can browse items and categories to select items. After selection user has to add selected items to cart and then have to select payment option. After adding payment details, User can successfully place order.

2.5.5 Assumptions and Dependencies:

It is assumed that customer has a working operating system that supports this developed Online Shopping System Application. And customer also has a working Internet Connection.

3 External Interface Requirements

3.1 User Interface



Online Shopping System   

Registration Page

Name:

Phone No:

E-Mail:

Address:

DOB:

Password:

Online Shopping System   

Login Page

E-Mail:

Password:

Online Shopping System   

Login Page

E-Mail:

Password:

Error   

Invalid E-Mail or Password!!

Online Shopping System

Search and Select Product

Cart | Account

Store | Man | Women | **Collection** | Gifts



Sweater Collection



Shirts Collection



Jeans Shirts



Woolen Sweaters

Online Shopping System

Cart Page

Cart | Account

Store | Man | Women | Collection | Gifts

Items in Cart: 1

Product: Women Suit



Name: CLAVAL

Code: AST212P15-GREY

Size: Medium

Suit Type: 3 pcs Suit

Price: Rs. 3080

Payment Method:

Remove from Cart

Order Now

Online Shopping System

Account Page Cart | **Account**

Store | Man | Women | Collection | Gifts

Name: Ali Anwar

E-Mail: abc@gmail.com

[Edit Info](#) [Orders History](#)

[Change Password](#) [Log Out](#)

Online Shopping System

Change Password Cart | **Account**

Store | Man | Women | Collection | Gifts

Current Password:

New Password:

Confirm Password:

[Cancel](#)

3.2 Software Interface:

- Front-end Development of Software includes HTML, CSS and JavaScript.
- Back-end Development of Software includes Python, PHP, JAVA and Ruby.

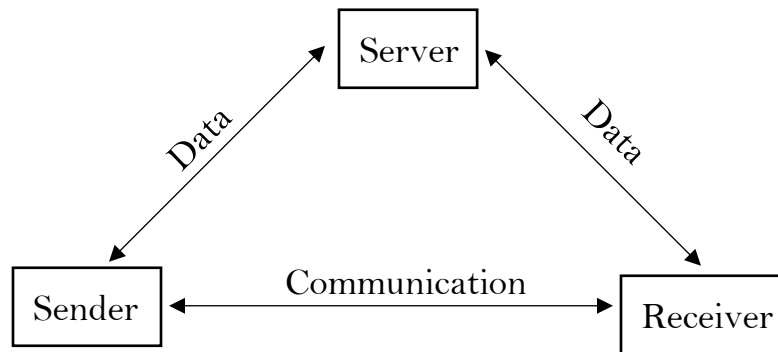
3.3 Hardware Interface:

Hardware Requirement are same for both users and owners:

- Compatible with Android (10 or higher), Apple iOS (10.12 or higher) and Windows 8, and 10 (1603 or higher).
- Processor: Dual Core or Quad Core
- Ram: 2 GB
- Hard Disk Space: 1 GB Max.
- A Network Interface Card (NIC)

3.4 Communication Interface:

The Owners and Users both must be connected to a LAN or a WAN network for the communication process.



4 System Features

4.1 Feature 1

4.1.1 Description and Priorities

- Registration of the Customer
- Personalization of the user account
- Change or update personal information
- Searching or selecting the products
- Add to Cart and select desired options required for product ordering
- Place the Order

4.1.2 Stimulus/Response Sequence

- Registration
- Logging into the account
- Search for desired clothes or seeing the recommended clothes
- Selecting a suit and pressing the add to cart button
- Make desired changes to the size and other attributes of suit
- Selecting the payment method (If card is selected then linking bank account to the website)
- Place the order by pressing the “Order Now” button.
- The delivery process will get the suit delivered to the desired address.

4.1.3 Use Case Descriptions

Downloading and installing

Identifier	OSS-01
Use Case	Downloading and installing
Actor	Customer/user
Description	The use case begins when the actor intent to download and install the application. It ends when the actor in stalls the application.
Post-Condition	The application already exists.
Pre-Condition	The actor downloads and installs the application.
Priority	High
Dependencies and risk	Nil

Registration

Identifier	OSS-02
Use Case	Registration
Actor	customer/use
Description	The use case begins when the user intents to register to the system. It ends when the actor registers in the system or cancel registration.
Post-Condition	The user is already register in the system.
Pre-condition	The user register successfully.
Priority	High
Dependencies and risk	Nil

Administration/User Login

Identifier	OSS-03
Use Case	Login
Actor	Administrator and customer/user
Description	The use case begins when the user intends to register to the system. It ends when the actor registers in the system or cancel registration.
Post-Condition	The login exists.
Pre-Condition	The actor logs in successfully.
Priority	High
Dependencies and risk	Nil

Manage cart

Identifier	OSS-04
Use Case	Manage cart
Actor	Customer/user
Description	The use case begins when the user intends to add items in the cart and it ends when user next button.
Post-Condition	<ul style="list-style-type: none"> • The user in logged in. • The record exists.
Pre-Condition	The cart record is added or being updated.
Priority	High
Dependencies and risk	Nil

View Products

Identifier	OSS-05
Use Case	View Product
Actor	Customer/user
Description	The use case begins when the user intends to view the items. It ends when the user closes the application.
Post-Condition	The login exists.
Pre-Condition	The actor view product successfully.
Priority	High
Dependencies and risk	Nil

Place order

Identifier	OSS-06
Use Case	Place Order
Actor	Customer/user
Description	The use case begins when the user intends to confirm the order of selected items.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The product record exists.
Pre-Condition	The cart records are added.
Priority	High
Dependencies and risk	Nil

User Payment Method

Identifier	OSS-07
Use Case	Payment method
Actor	Customer/user
Description	The use case begins when the actor intent to view, delete add or update the record of customer's payment. It closes when the actor adds, delete, or update the payment method.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The payment record exists.
Pre-Condition	The actor adds, deletes, or update the payment record.
Priority	High
High	Nil

Managing categories

Identifier	OSS-08
Use Case	Managing categories
Actor	Administration
Description	The use case begins when the actor intent to view, delete add or update the categories record. It closes when the actor closes the category form.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The category record exists.
Pre-Condition	The actor adds, deletes, or update the category.
Priority	High
Dependencies and risk	Nil

Managing Customers

Identifier	OSS-09
Use Case	Managing Customer
Actor	Administration
Description	The use case begins when the actor intent to view, delete add or update the record of customer. It closes when the actor closes the customer form.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The customers record exists.
Pre-Condition	The actor adds, deletes, or update the customer record.
Priority	High
Dependencies and risk	Nil

Managing Product

Identifier	OSS-10
Use Case	Managing Product
Actor	Administration
Description	The use case begins when the actor intent to view, delete add or update the item's record. It ends when the actor closes the item form.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The item's record exists.
Pre-Condition	The actor adds, deletes, or update the items record.
Priority	High
Dependencies and risk	Nil

Order details

Identifier	OSS-11
Use Case	View order detail
Actor	Administration
Description	The use case begins when the actor intent to view order detail of customers.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The order's record exists.
Pre-Condition	The actor cancels or approve the order of customer.
Priority	High
Dependencies and risk	Nil

Verify payment details

Identifier	OSS-12
Use Case	Verify payment details
Actor	Administration and bank
Description	The use case begins when the actor intent to confirm the credit card details of the customer. It closes when the actor closes the customer payment form.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The customer's payment method exists.
Pre-Condition	The actor confirms or rejects the payment method.
Priority	High
Dependencies and risk	nil

Delivery System

Identifier	OSS-13
Use Case	Delivery a product
Actor	Administration and delivery system
Description	The use case begins when the actor intent to deliver the product to customer. It closes when the actor closes the product delivery form.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The customer's delivery details exist. • Payment method is confirmed
Pre-Condition	The actor delivers a product or cancel the delivery..
Priority	High
Dependencies and risk	Nil

Change Password

Identifier	OSS-14
Use Case	Change Password
Actor	Administration and user
Description	The use case begins when the actor intent to change their login passwords. It ends when user press the confirm change password.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • The password confirmation exists.
Pre-Condition	The actor changes the passwords.
Priority	High
Dependencies and risk	Nil

Forgotten password:

Identifier	OSS-15
Use Case	Forgotten Password
Actor	Administration and user
Description	The use case begins when the actor forgets the password to login. It ends when user login in the id with correct pass word.
Post-Condition	<ul style="list-style-type: none"> • The actor's registration exists. • The password confirmation exists.
Pre-Condition	The actor sets the passwords.
Priority	High
Dependencies and risk	Nil

Add, edit, or update products:

Identifier	OSS-16
Use Case	Add, edit, or update products
Actor	Administration
Description	The use case begins when the actor intent to add, edit, or update products. It ends when actor press ok button in tab.
Post-Condition	The actor's login exists.
Pre-Condition	The actor adds, edit, or update the product list..
Priority	High
Dependencies and risk	Nil

View delivery details:

Identifier	OSS-17
Use Case	View delivery details.
Actor	Administration, customer/user, and delivery system.
Description	The use case begins when the actor intent to view the delivery details of the product.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • Order should be placed by customer.
Pre-Condition	The actor views the delivery details.
Priority	High
Dependencies and risk	Nil

View customer details:

Identifier	OSS-18
Use Case	View customer detail
Actor	Administration
Description	The use case begins when the actor intent to view the details of the customer.
Post-Condition	The actor's login exists.
Pre-Condition	The actor views the customer detail successfully.
Priority	High
Dependencies and risk	Nil

View daily sell:

Identifier	OSS-19
Use Case	View daily sell
Actor	Administration
Description	The use case begins when the actor intent to daily sell and orders by the customer.
Post-Condition	The actor's login exists.
Pre-Condition	The actor views daily sell details successfully.
Priority	High
Dependencies and risk	Nil

Return or exchange the product:

Identifier	OSS-20
Use Case	Return or exchange products
Actor	Customer/user
Description	The use case begins when the actor intent to return or exchange the bought product.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • Product is bought.
Pre-Condition	The actor returns or exchange the product that they have bought.
Priority	High
Dependencies and risk	Nil

See selected items:

Identifier	OSS-21
Use Case	See selected list
Actor	Customer/user
Description	The use case begins when the actor intent sees the items that they have been selected and are putted in the cart.
Post-Condition	The actor's login exists.
Pre-Condition	The actor successfully sees the selected cart list.
Priority	High
Dependencies and risk	Nil

View delivery report:

Identifier	OSS-22
Use Case	View delivery report
Actor	Administration and customer/user
Description	The use case begins when the actor intent to see the delivery details of the order product.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists. • Product is ordered.
Pre-Condition	The actor adds, edit, or update the product list..
Priority	High
Dependencies and risk	Nil

Logout:

Identifier	OSS-23
Use Case	View delivery report
Actor	Administration and customer/user
Description	The use case begins when the actor intent to logout from the application.
Post-Condition	<ul style="list-style-type: none"> • The actor's login exists.
Pre-Condition	The actor logouts the application successfully.
Priority	High
Dependencies and risk	Nil

5 Other Non-Functional Requirements

5.1 Performance Requirements:

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Also, the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.

5.2 Safety Requirements:

The application is password protected and also any updating of new product entries and order processing is done by only privileged users. Security of the data is also kept by the backup process. If the system encounters any error or virus and end up with losing all the data. The backup service will help us the recover the user's valuable information and their accounts

5.3 Software Quality Attributes:

5.3.1 Availability:

The system is online web application and user can access in any latest browser.

5.3.2 Flexibility:

Flexibility requirements address the user concern for how easy it is to modify the system to work in different environments.

5.3.3 Reliability:

Specify the factors required to establish the required reliability of the software system at time of delivery.

5.3.4 Maintainability:

The Online Shopping System is being developed in PHP. PHP is an object-oriented programming language and shall be easy to maintain.

5.3.5 Modifiability:

Modifiability requirements address the user concern for how quickly and cost effectively changes can be made to a software system

5.3.6 Portability:

The Online Shopping System shall run in any Operating system that latest browsers.

5.3.7 Scalability:

Scalability requirements address the user concern for how easy it is to expand or upgrade the system's capabilities

5.3.8 Verifiability:

Verifiability requirements address the user concern for how easy it is to show that the system performs its functions.

5.3.9 Design Constraints:

The Online Shopping System is the web portal. The system shall be developed using PHP and MySQL database.

5.3.10 Security:

The system has encrypted password.

5.3.11 Business Rules:

Only the administration can add products in the database. The user can only search and buy for the products added by the admin. The admin cannot buy products. Any case customer forgets their password they contact with the helpline.

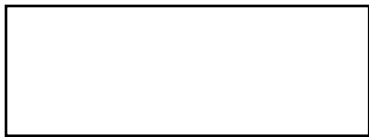
5.3.12 Technical Issues:

This system will work on client-server architecture. It will require an internet server and which will be able to run application. The system should support some commonly used browser such as IE, Mozilla, Firefox, chrome etc.

6 System Design Specification

6.1 Architecture design:

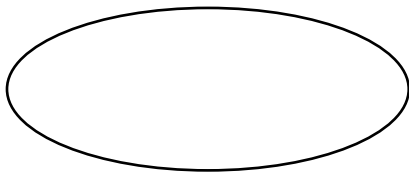
6.1.1 Data Flow Diagram:



Rectangle represents a data source or destination.



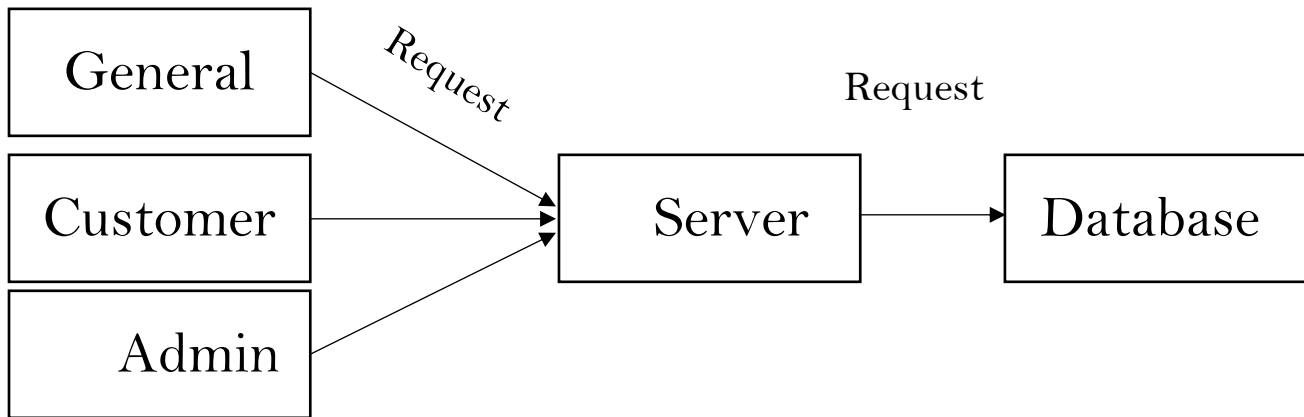
An arrow headed line represents the flow of data.



An oval represents the process that is performed in the process.

The principle processes that take place at nodes are:

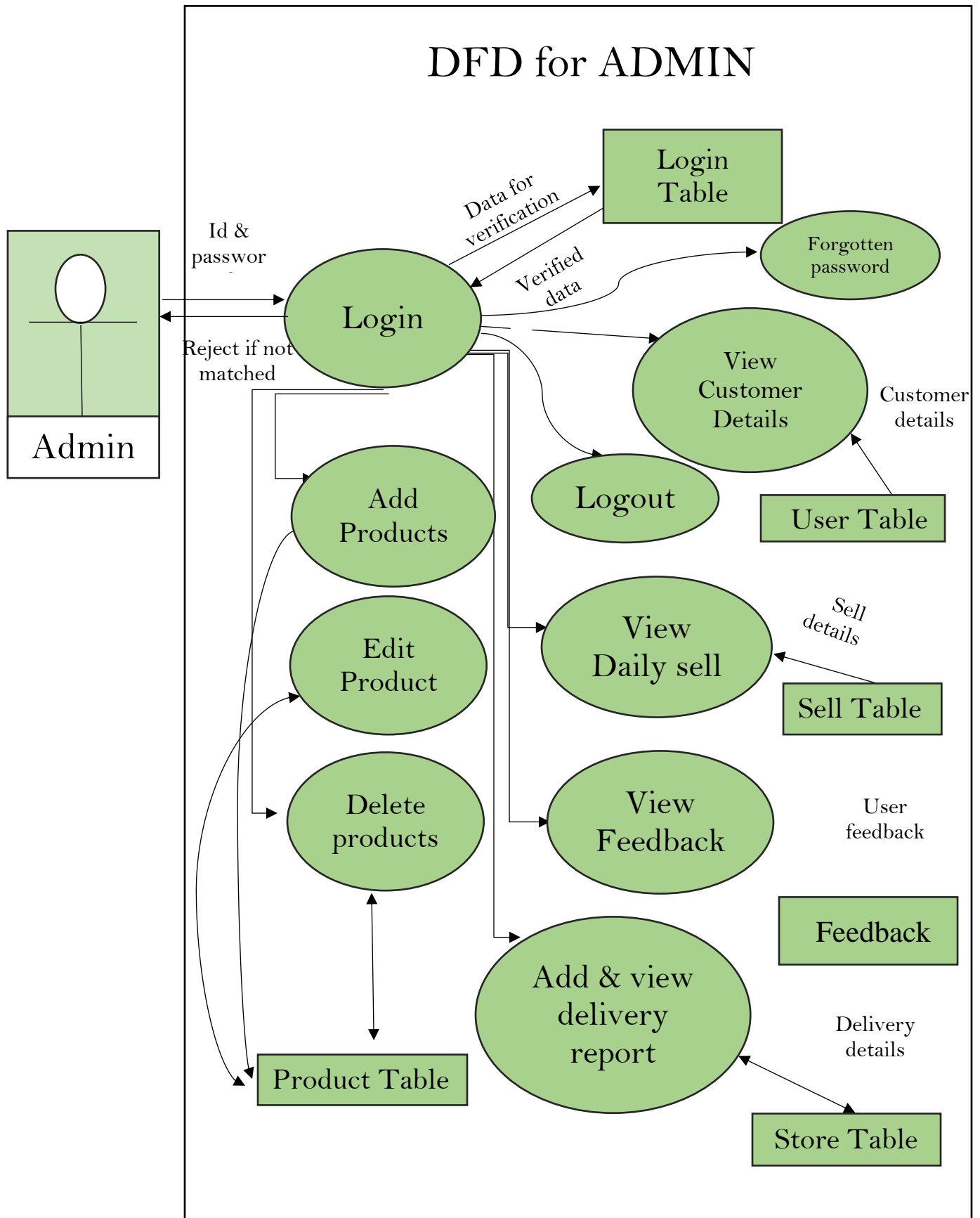
- Combining data streams
- Splitting data streams
- Modifying data streams.



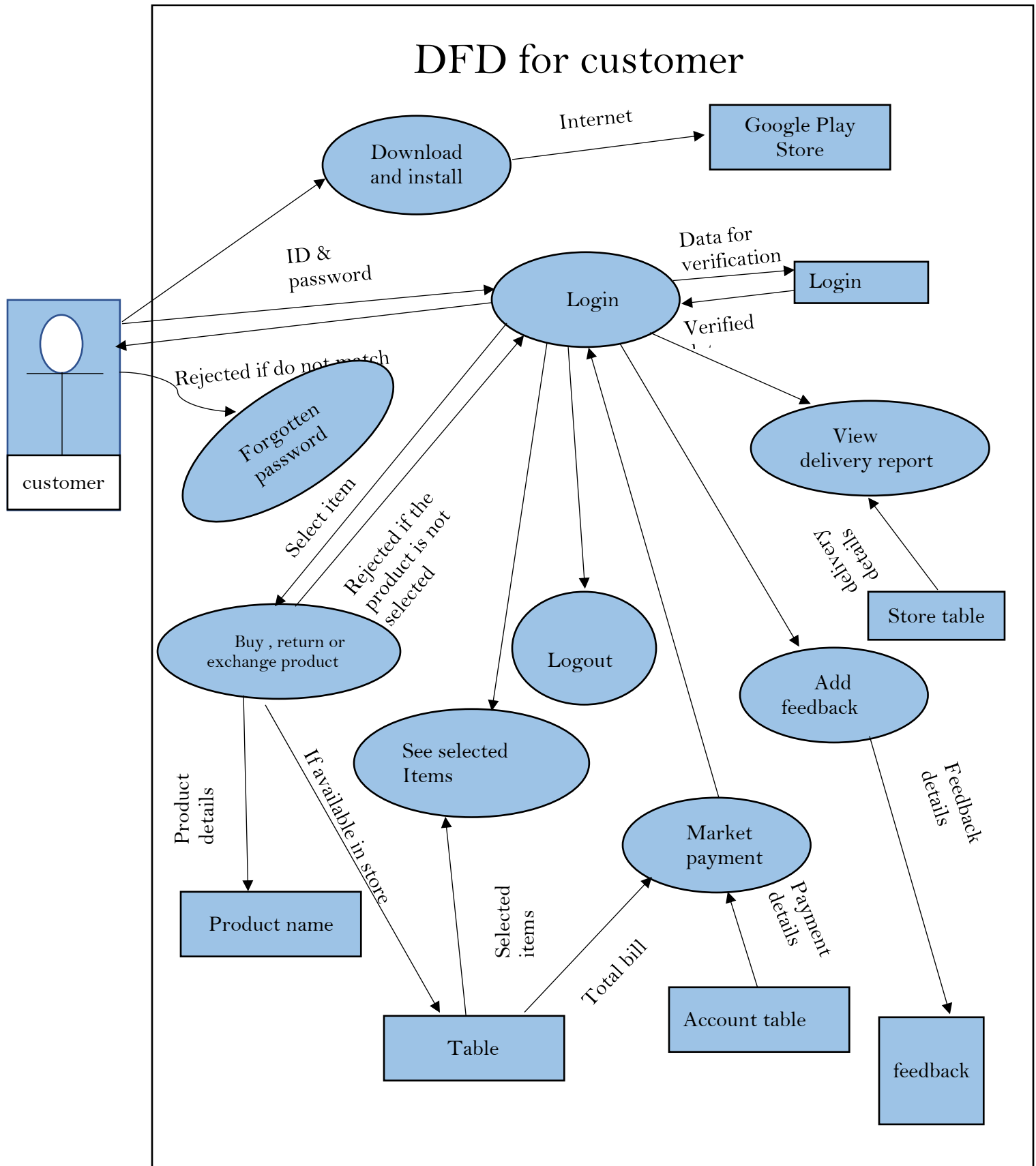
6.2 Context Analysis Diagram (CAD):



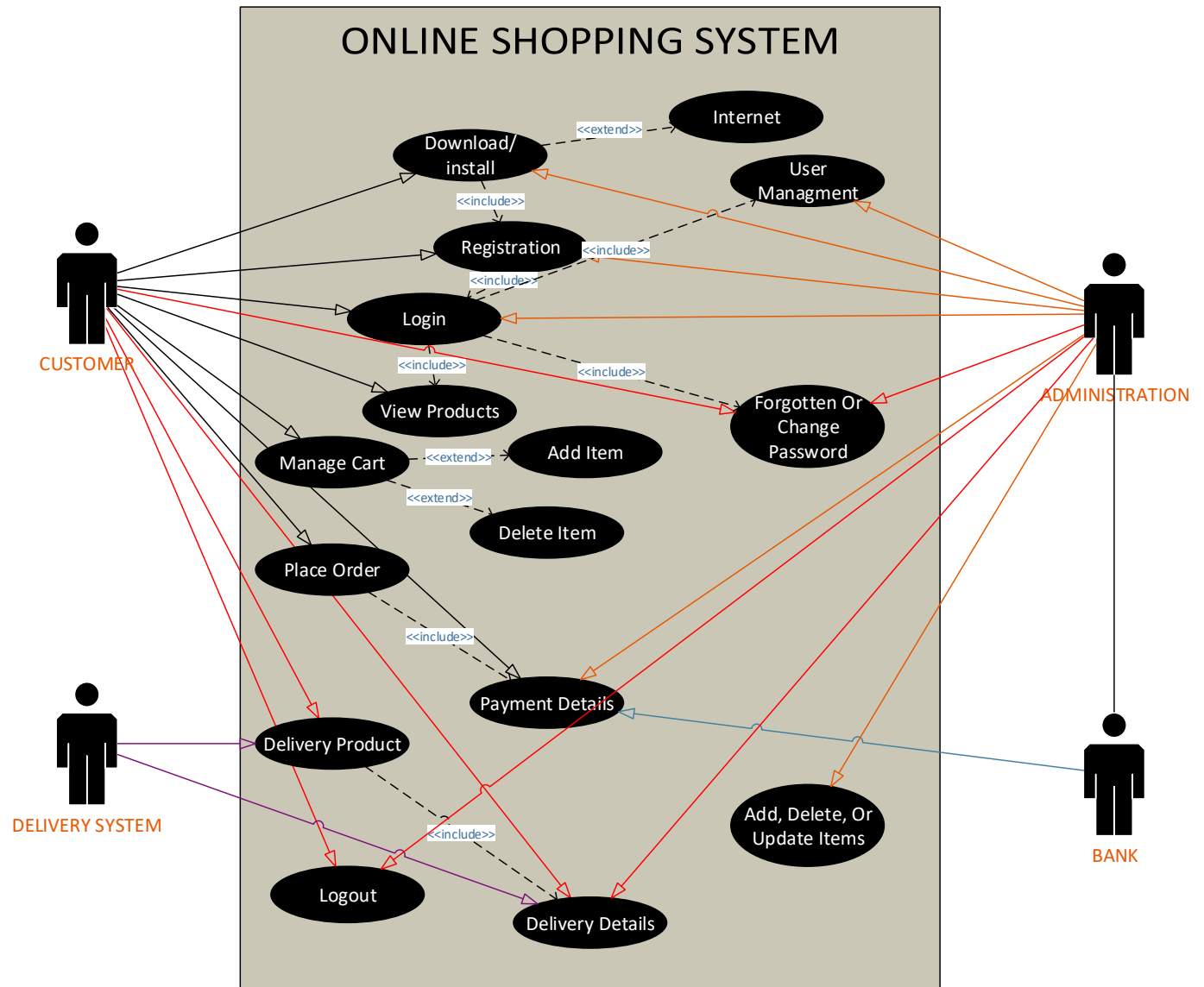
6.3 DFD for ADMIN



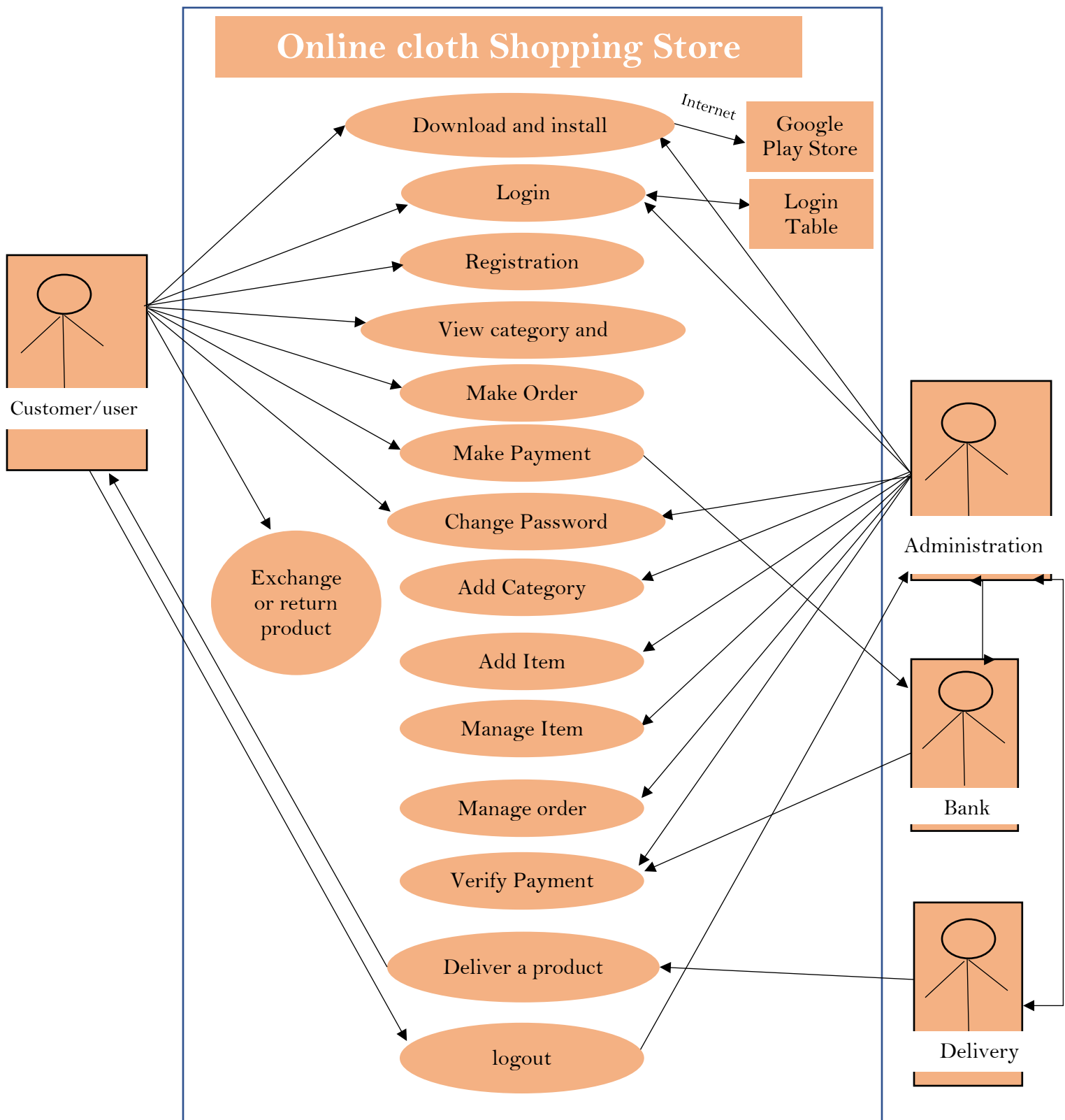
6.4 DFD for Customer



6.5 Use Case Diagram



6.6 UML Diagrams



Customer details when they buy a product

