<u>Interview Outline</u>

Interviewee: Moaz Ahmed

Interviewer: Hossam Hamdy

Location/Medium: Coffee shop

Appointment Date: 14/3/2023

Start Time: 4:18

End Time: 4:51

Objectives: To gather information about the system like the stack holders, payment methods and difference between the administrator and a customer

Reminders: owner of the book shop

Agenda :	*Approximate Time :*
Introduction	**1 minutes**
Background on Project	**2 minutes**
Overview of Interview	

Topics to Be Covered	3 minutes.
Permission to Record	
Finance questions	5 minutes
HR questions	3 minutes
Sales questions	6 minutes
Marketing questions	2 minutes
Purchase questions	3 minutes
Inventory questions	1 minutes
Summary of Major Points	2 minutes
Questions from Interviewee	1 minutes
Closing	1 minutes

General Observations: the interviewee was nice and helpful but didn't know much about inventory and marketing.

Unresolved Issues, Topics Not Covered: *topics about inventory and marketing we did not go into details cause either he did not know much about it or did not have it.*

Interviewee: **Date:**

Questions :   Notes :

Q1: Who will use the website?

 A1: Clients and employees will use it.

Q2: Will a guest be able to order from the website?

A2: No, he only can see the website.

Q3: What will be asked from the user to register?

A3: His name ,address for shipping, a password for the account and card information if he will pay by credit card

Q4: What will happen if the user forgets his password?

A4:A message will be sent to the user's email

Q5: How will the administrator login?

A5: He need be registered.

Q6: What will be used to register?

A6: His name, phone number, password for the account and his work id

Q7: What can the administrator do ?

A7: Can write suggestions about the system, add books ,see transaction logs ,change prices make offers and check the inventory

Q8: What will happen when a book got sold out ?

A8: The administrator needs to be notified

Q9: What if a user wants a books and wasn't found ?

A9: The administrator will be notified if the requests got above 50 request

Q10: What payment methods do you have ?

A10: Credit card or cash

Q11: Should I allow customers review?

A11: Yes , by rating the books and write reviews

Q12: How will the user look for the books he wants?

A12: By search for it by the book's title, author, and categories

Q13: What categories do you have in the inventory?

A13: I have action, romance, fantasy, and children.

Q14: How will the user pay?

A14: when he checks out he could pay by credit card or cash

Q15: How will the user follow his purchase?

A15: when he checked out, he was given a confirmation number.

he can use it to see the purchase he made in the last 30 days and he can see the shipping date, the address that the order got sent to and the projected delivery date if it wasn't shipped.

Q16: Will the user be able to modify his account information?

A16: Yes

Q17: Can the user reserve a book?

A17: Yes, and he can pick to from the nearest branch to him within 7 days, but he needs to pay 10% from the price of the book first and he need to write his phone number and email and he will get a confirmation number.

Q18: Will the user be able to return a book?

A18: Yes but he will pay the shipping fees and it have to be in the same day he got the book.

Q19:Will he be able to view his past purchase?

A19:Yes,he can see his last year purchases ,the date and the credit card was used.

Q20: How will the users contact the store?

A20: By our numbers or email addresses.

Q21: When will the employees get paid?

A21: 1st of every month

Q22: How will the salary be detriment?

A22: By position

Q23: When do you calculate your profit?

A23: every quarter

Q24: How do you calculate your profit?

A24: revenue –last 3-month salaries-20%taxes-the original cost of the books

Q25: How do you calculate the book price?

A25: Original cost of the book *30%

Q26: when do you calculate your profit?

A26: every quarter

Q27:How do you calculate the profit ?

A27: the revenue of the last three months -(salary of the last three months + books original cost + 20% tax)

Q28: How to calculate the book cost?

A28: original cost*30%

Q30: What do you want the people to know about the shop?

A30: Where are our branches, when we established, who founded the business and our staff.

Q31.what do you want to display about staff?

A31.name of every employee and manger in every manager

Q32: do you want monthly reports?

A32: I want them weekly.

Q33: How did you do your marketing?

A33: Through billboard and digital marketing

Q34: how do you restock your inventory?

A34.by calling the supplies and checking who got what I want.

Q35: when do you usually do them?

A35: usually every month or something goes out.

Q37: Do you want to save your data ?

A37: Yes, by making backup to restore it when needed

Q38: Do you want to add something else?

A38: I want the system to recommend books.

Q39: Based on what you want the book to be recommended?

A39: based on the most sold books on the week in every categories and the most sold book on the week.

Q40:What do you do when you are out of stock?

A40:I call the suppliers to inform them about the things I need.

Q41:When do the suppliers usually come?

A41:At the start of every month.

Q42:Where do you put your supplies ?

A42:Most of it goes to the warehouse and the rest goes to the shop.

Q43:How do you pay to the suppliers?

A43:By cash.

Software Requirements Specification

for

Book Shop

Version 1.0 approved.

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ACU

10/3/2023

Table of Contents

Revision History

Name	Date	Reason For Changes	Version

1.   Introduction

The project's main goal is to build an online bookstore where customers may buy books based on title, author, and subject. The user can place an online order for their books using a credit card after seeing the selected books shown in a structured manner. Comparing the Administrator to a regular user, the Administrator will have more features.

Online bookstores are web applications that allow clients to purchase books online using a web browser. Clients can select a book, put it to their shopping cart, and after that use a credit card to complete the buy. Clients can sign in with their login data or rapidly make new accounts for new clients. Based on subjects like "Horror, Mystery, Action, etc., the books are classified into a variety of categories.

1.1   Purpose

This Software Requirement Specification is meant for an Online Bookstore. The Online Bookstore is meant as a way for customers to browse books on the website and buy them from home without the need to go to the store. The primary purpose of this SRS ensures that the system meets the needs and expectations of both the bookstore owners and their customers. The SRS illustrates in clear terms, the system's primary uses.

1.2   Product Scope

The software system being produced is called Online Bookstore. It is being produced for a customer interested in buying books via the Internet. The system will allow any user to create an account to become a customer. The system will allow customers to browse, search, select, and add books to a shopping cart. Then, provided they have books in their shopping cart, check out books in the shopping cart and after that use a credit card to complete the buy. The Online Bookstore also allows the manager to manage the inventory with full create, retrieve, add, update, and delete functionality regarding books in the system.

1.3   References

https://www.junkybooks.com/
https://www.academia.edu/7781246/A_PROJECT_ON_Online_Book_Store_
https://oxfordbookstore.com/

2.   Overall Description

2.1   Product Functions

Anyone can sign up for a customer account, which requires a username, password, email address, and phone number. However, if the user registers as an administrator, the system will ask for their work ID.

After logging in to the system, the available books in the store will be displayed with their covers, prices, and titles. Users can categorize books or search for specific books and add them to their shopping carts. Customers can check out using a credit card and view the shipping status by entering the confirmation number from their purchase. Customers can also give us reviews about the books, our staff, and our system. If you encounter any problems, you can send us an email or call us.

If you are logged in as an administrator, you will be able to change the book's prices, add books, make offers, and view transaction logs. The manager is also able to set and modify the salary of every employee. Additionally, when the quantity of a book falls below a threshold, the manager will be notified that the book needs to be restocked.

2.2   User Classes and Characteristics

The typical Online Bookstore user is simply anyone that has access to the Internet and a web browser. It is assumed that the user is familiar enough with a computer to operate the browser, keyboard and mouse and can browse to, from and within simple websites.

- **Unregistered user:** can only visit the website.

- **Registered users:** registered users can access all the functionalities expect the administrator functionalities like searching for a book, adding a book to the shopping cart, checking the best seller, and checking out etc.…

- **Administrator:** administrator has the authority to see employee's salary, revenue of the year, add books to the store and modify books prices.

2.3   Operating Environment

The system will work on any device that has internet connectivity and browser to browse the website. The browser should be up to date to run various functions of the website. The system will not run on any OS under windows XP. The system will not also run on browsers doesn't support JAVA plugins.
The system will require at least 8GB of RAM,64 bits CPU and 64 GB SSD

2.4   Assumptions and Dependencies

Since the Online Bookstore is only accessible through the internet, it is assumed that the end user has a connection to the internet. It is also assumed that the user has a web browser able to display the website.

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Client:
We have assumed that all the computer systems are in proper working condition and that the user can operate these system's basic functions including but not limited to being able to power on the system, login, and open browsers, and navigate the browser to the address of the website.

Provider:
We have assumed that the Online Bookstore will be running on a properly working web server and database system with an Internet connection that allows this system to perform all communications with clients.

Assumptions:
 • The manager account's username and password maybe hard coded.
 • The manager cannot be a customer.
 • The user can edit their account information.

3.   System Functions

3.1   Register

Code	Requirements statement	Must/should	Comments
FR001	The System will allow non-registered user to create a secure account	Must	
FR002	The System will ask for user's: name, address, credit card information and phone number	Must	
FR003	The System will confirm the username and password are acceptable	Must	
FR004	The System will store the information in the database	Must	

3.2   Login

Code	Requirements statement	Must/should	Comments
FR005	The System will allow a registered account to login to their account	Must	
FR006	The System will request the user's username and password	Must	
FR007	The System will verify the username and password and will login into the user's account	Must	
FR008	If you want to login in as an administrator, you will be asked for your work ID along with the username and password	Must	

3.3   Search Bar

Code	Requirements statement	Must/want	Comments
FR009	The user will be able to search for a book by title, author, and category	Must	
FR010	When the book is found among the book inventory the system it will display a picture of the front cover of the book and information about it will be displayed along with its price	Must	

3.4   Add to Shopping Cart

Code	Requirements statement	Must/want	Comments
FR011	The system will allow logged-in user to temporarily save books to purchase in a list	Must	
FR012	When viewing the shopping cart list the system will display total price of the books	Must	

3.5   Delete from Shopping Cart

Code	Requirements statement	Must/want	Comments
FR013	The system will allow logged-in user to remove any unwanted books in the shopping cart	Must	
FR014	After user has selected the unwanted books to delete the shopping cart should be updated to show the rest of the books and display the new total price	Must	

3.6   Reserve

Code	Requirements statement	Must/want	Comments
FR015	The system will allow logged-in user to reserve books to be picked up at the bookstore within 7 days	Must	
FR016	The user must provide a name, phone number, email address and to pay 10% of the reserved books	Must	
FR017	The items in the shopping cart will be placed on reserve and removed from the shopping cart	Must	

FR018	The user is given a confirmation number	Must	

3.7   Check Out

Code	Requirements statement	Must/want	Comments
FR019	The system will allow a logged-in user to purchase books that are in their shopping cart	Must	
FR020	The system will allow the user to choose between to ways to pay cash and credit card	Must	
FR021	If he choose credit card it will be charged for the total price of the books is the shopping cart	Must	
FR022	The user will be provided with a confirmation number for his purchase	Must	
FR023	Information about the books will be displayed to confirm the books that the users wanted	Must	

3.8   View Shipping Status

Code	Requirements statement	Must/want	Comments
FR024	The system will allow a logged -in user to see the shipping status of the orders they placed within 30 days	Must	
FR025	The user must enter the conformation number from the purchase to view the shipping status	Must	
FR026	The system will display the shipping date, the mail address, projected delivery date and status	Must	

3.9   Contact Us

Code	Requirements statement	Must/want	Comments
FR027	The system will provide many ways to contact the store	Must	
FR028	The system will display the store's number, address, and email	Must	
FR029	The system will display a map showing the location of the store	want	

3.10   Update Account Information

Code	Requirements statement	Must/want	Comments
FR030	The system will allow the user to update their account information (name, address, credit card number, password, etc.)	Must	
FR031	The user will be able to change the password by entering the old password once and the new one twice	Must	

3.11   Purchase History

Code	Requirements statement	Must/want	Comments
FR032	The system will allow the user to see the last purchase made with their account within the last year	Must	

FR033	The system will display the date of purchase, credit card type, credit card number	Must	
FR034	The system will display information about the books were purchased	Must	

3.12   Logout

Code	Requirements statement	Must/want	Comments
FR035	The system will allow the user to exit their account	Must	
FR036	The system will Prevent others from accessing to it	Must	

3.13   Help

Code	Requirements statement	Must/should	Comments
FR037	Should show how to use the method above	Should	
FR038	should give the user an overview of how to use the different functions listed above	Must	

3.14   Suggestions

Code	Requirements statement	Must/want	Comments
FR039	Should allow the administrator to write any suggestion he sees about the system	Must	

3.15 Review

Code	Requirements statement	Must/want	Comments
FR040	Should allow the user to write a about a book	Must	
FR041	Should allow the user to write a review about our staff	Must	
FR042	Should allow the user to write a review about the system	Must	

3.16 Locations

Code	Requirements statement	Must/want	Comments
FR043	Should Show the user our Branches	Must	
FR044	Should show the user the places we deliver to	Must	

3.17 About Us

Code	Requirements statement	Must/want	Comments
FR045	Should allow the user to read about our philosophy	Must	
FR046	Should allow the user to see who founded the business	Must	
FR047	Should allow the user to see since when we established	Must	

3.18   Rating

Code	Requirements statement	Must/want	Comments
FR048	Should allow the user to give a book from 1 star to 5	Must	1 for very bad 5 for excellent

3.19   Staff

Code	Requirements statement	Must/should	Comments
FR049	The system will provide information about the staff	Must	
FR050	It will tell the user every branch staff and its manager	Must	

3.20   Show a list of available books.

Code	Requirements statement	Must/Want	Comments
FR051	The system will display the available books in the store	Must	
FR052	The books will be displayed in alphabetic order	Want	
FR053	The system will display the cover of the book under it its price and title	Must	

3.21   Allow Administrator to update stock quantities.

Code	Requirements statement	Must/Want	Comments
FR054	If you are logged-in as an administrator, you will be able to change books price	Must	
FR055	If you are logged-in as an administrator, you will be able to see the transaction logs	Must	
FR056	You will be able to add more books if you are an administrator	Must	
FR057	You can make offers on the book prices if you are an administrator	Must	

3.22   Notify manager when books need to be restocked.

Code	Requirements statement	Must/Want	Comments
FR058	The system will notify the administrator if a book needs to be restocked	Must	
FR059	The system will notify the administrator when the quantity of a book is low	Must	

3.23   Revenue Of the year

Code	Requirements statement	Must/Want	Comments
FR060	The system will notify the owner of the money of every quarter	Must	
FR061	It will provide the owner with the profit he made	Must	profit=revenue -(total salaries *3)

3.24 Salary of the employees

Code	Requirements statement	Must/Want	Comments
FR062	The manager will be able to set the salary of every employ	Must	
FR063	The manager will be able to modify the salary of the employees	Must	
FR064	The salary will be determent by the employee position	Must	20$ for managers per hour 10$ for employees Per hour

3.25 Request a Book

Code	Requirements statement	Must/Want	Comments
FR065	The system will allow the user to request a book to be added to the store	Must	
FR066	If the requests passed 50 requests to the same book the system will notify the administrator	Must	

3.26 Categories

Code	Requirements statement	Must/Want	Comments

FR067	The system will display available book categories	Must	Categories like children, adventure, romance etc.…
FR068	When the categories chosen the system will display books available books that includes this category	Must	

3.27 Best Seller

Code	Requirements statement	Must/Want	Comments
FR069	The system will display the most sold books of this week	Must	The fastest book got out of stock
FR070	The system will display most sold book in every category	Must	

3.28 Forget my Password.

Code	Requirements statement	Must/Want	Comments
FR071	The system will ask for the user's email	Must	
FR072	The system will send a message to the user's email that has a link to change his password	Must	

3.29 Register as Administrator

Code	Requirements statement	Must/should	Comments
FR073	The System will allow new administrators to create secure accounts	Must	
FR074	The System will ask for administrators': name, address, work ID and phone number	Must	
FR075	The System will confirm the username and password are acceptable	Must	

FR076	The System will store the information in the database	Must	

3.30 Refund

Code	Requirements statement	Must/should	Comments
FR077	The system will tell the user if he wants to refund, he will have to pay for the shipping fees	Must	
FR078	The refund must in the same day the day the book was shipping at	Must	

3.31 Credit Card

Code	Requirements statement	Must/should	Comments
FR079	If the user chooses to pay by credit card the system will ask him to enter the 16 number of the credit card and its password	Must	
FR080	The bank will send the user a confirmation message	Must	

3.32 Bills

Code	Requirements statement	Must/should	Comments
FR081	The system will display a bill with name and prices of the books the user bought and the confirmation number of the receipt	Must	

FR082	A receipt will be print with every order	Must	

3.33   How did you know about us?

Code	Requirements statement	Must/should	Comments
FR083	The system will ask the user how he knew about the bookstore	Must	
FR084	The system will give the user options to choose from like billboards, Instagram page, Facebook page, from a friend, etc.…	Must	

3.34   Vouchers

Code	Requirements statement	Must/should	Comments
FR085	The system will provide vouchers on the store social media pages every month	Must	The voucher will be available to use for 24 hours
FR086	A receipt will be print with every order	Must	

3.35   Cost

Code	Requirements statement	Must/should	Comments

FR087	If you are logged-in as an administrator, the system will let you see how the books were priced	Must	Price of the book = original cost*30%

3.36   Shipping

Code	Requirements statement	Must/should	Comments
FR088	The system will tell the user the locations we deliver to	Must	
FR089	If the location of user can be delivered to the system will allow the user to place an order	Must	

3.37   Stock

Code	Requirements statement	Must/should	Comments
FR090	Allow the administrator to check the warehouse	Must	
FR091	Notify the administrator to call the suppliers at the start of every month to restock	Must	*(Most of the stock goes to the warehouse only what is most needed goes to the shop)*
FR092	The system will update the inventory that were restocked	Must	

4.   Nonfunctional Requirements

4.1   Performance

Code	Requirements statement	Must/should	Comments
NF001	System login/logout shall take less than 5 seconds	Must	None
NF002	Searches shall return results within 10 seconds.	Must	None
NF003	Orders shall be processed within 10 seconds.	Must	None

4.2   Reliability

Code	Requirements statement	Must/should	Comments
NF004	The average time to failure shall be less than 22 min/month	Must	None
NF005	If the server does crash, a backup server will be up running within an hour	Must	None

4.3   Security

Code	Requirements statement	Must/should	Comments
NF006	Users will be able to access only their own personal information and not that of other users	Must	None

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NF007	The system will be secured from any hacks		None

4.4   Maintainability

Code	Requirements statement	Must/should	Comments
NF008	Any updates or defect fixes shall be able to be made on server-side computers only without any patches required by the user.	Must	None

4.5   Useability

Code	Requirements statement	Must/should	Comments
NF009	The reports should be clear and precise, and not overly technical.	Must	None
NF010	This system has a consistent user interface and is easy to handle	Must	None

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4.6 Availability

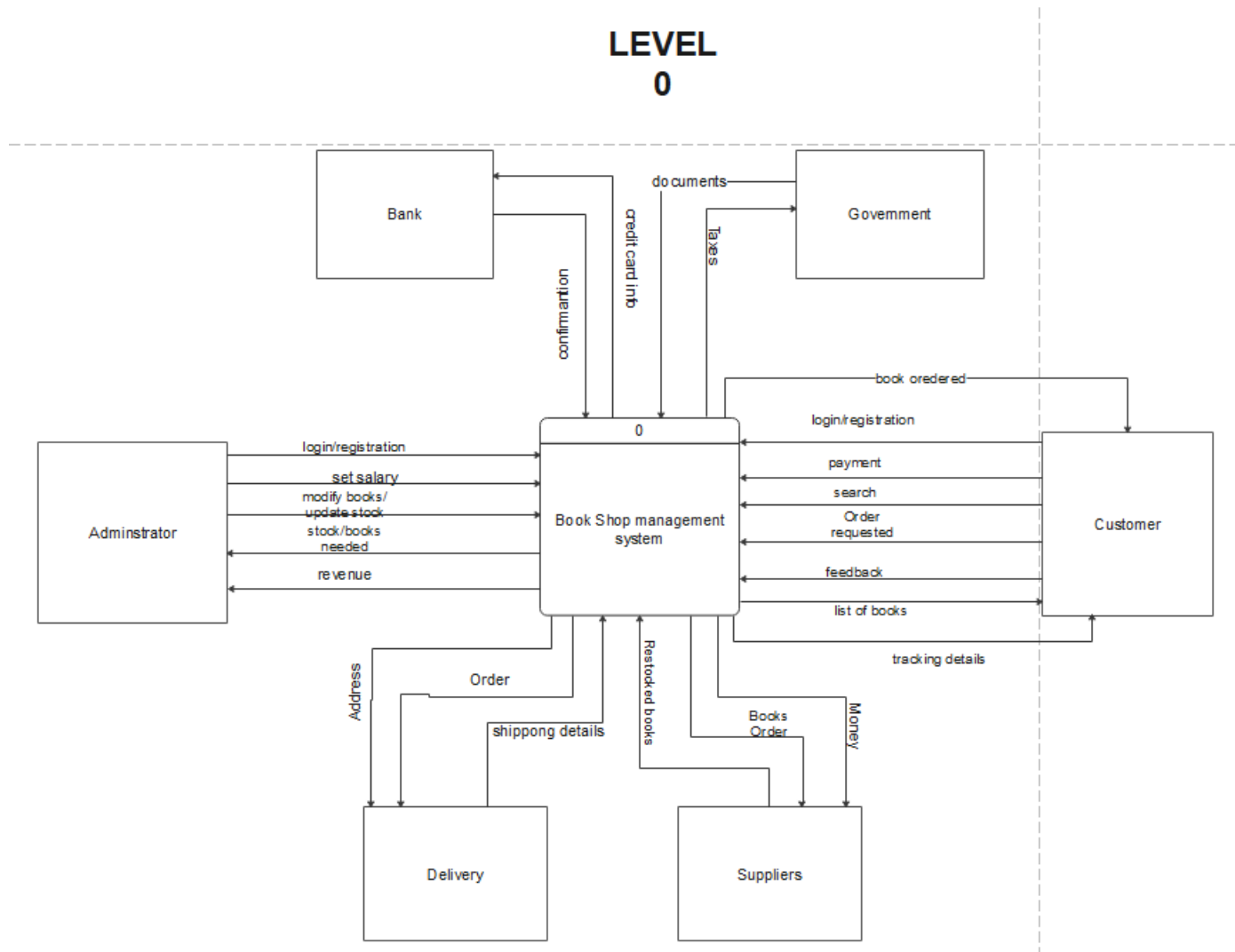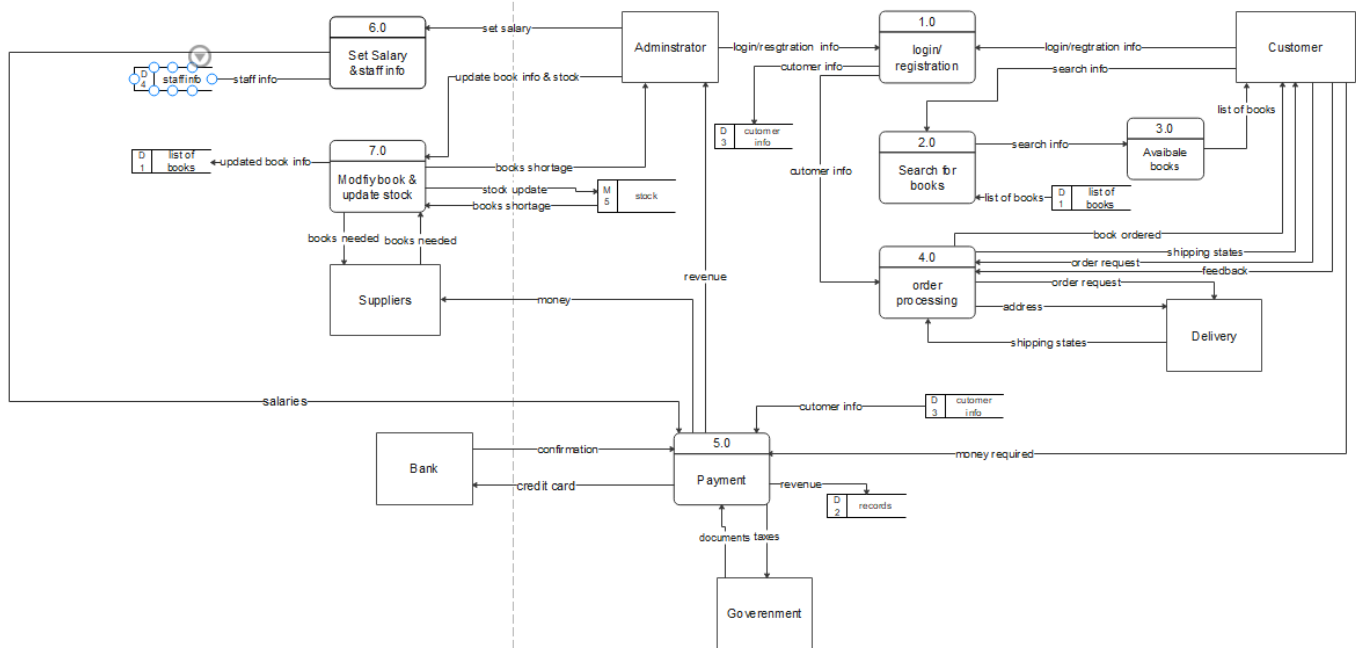| Code	Requirements statement	Must/should	Comments
NF011	The Online Bookstore shall be available to users 24 hours a day, 7 days a week, except for being down for maintenance no more than one hour a week	Must	None

4.6   Supportability

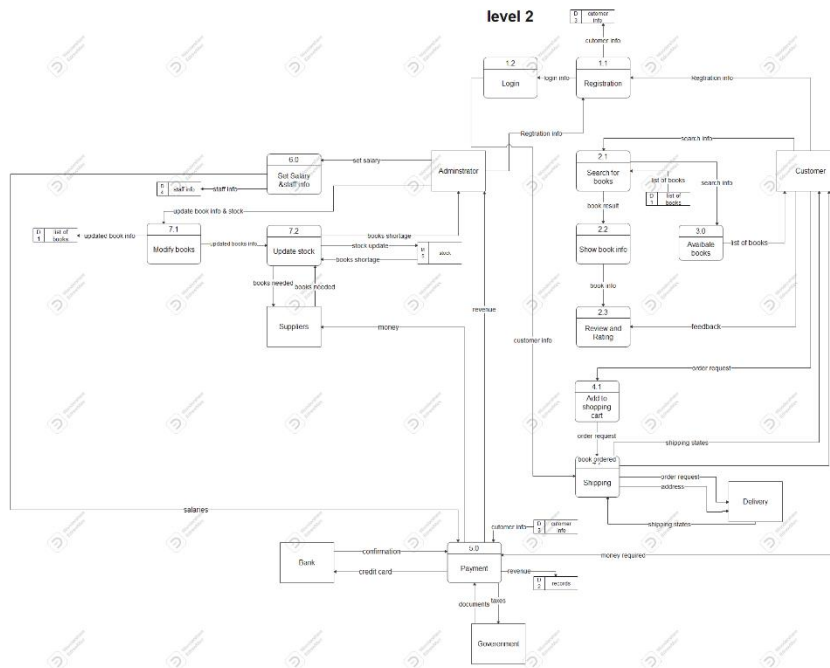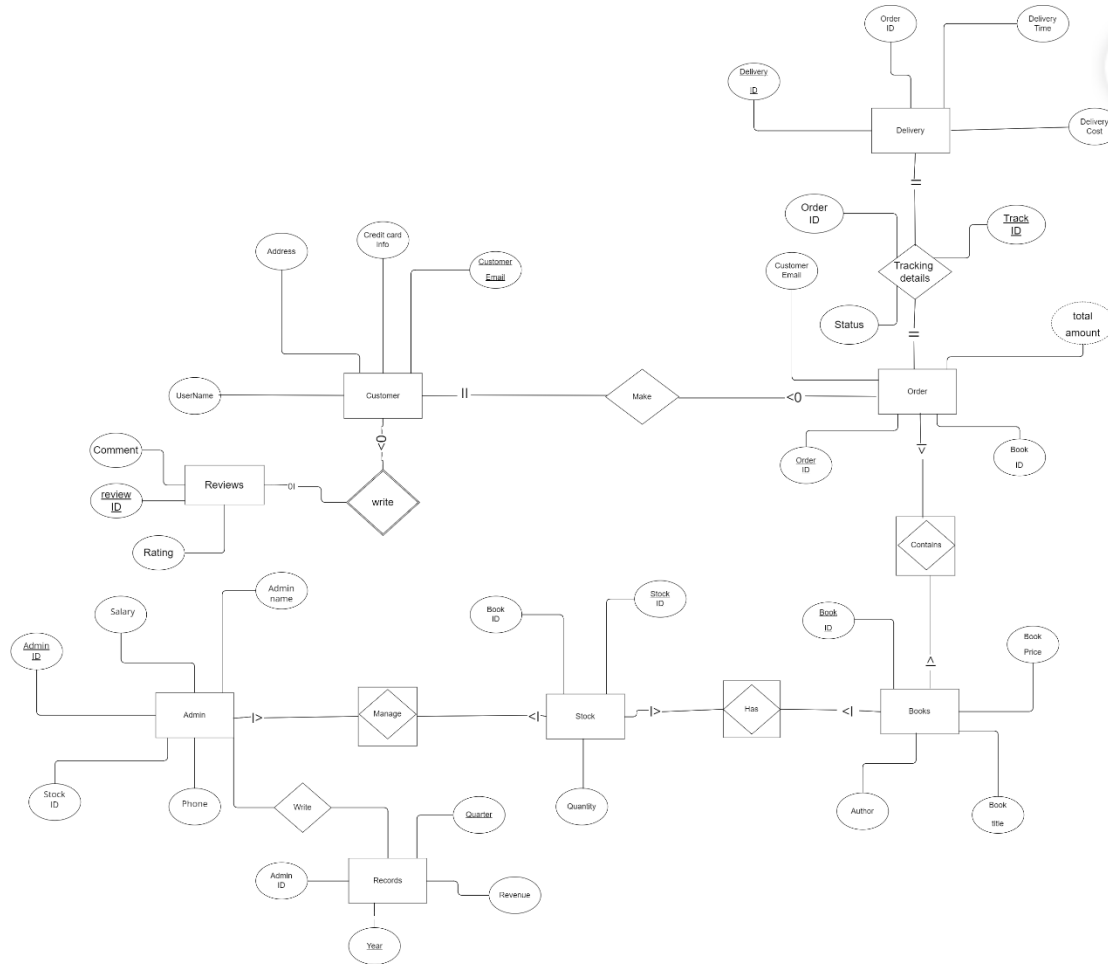| Code	Requirements statement	Must/should	Comments
NF013	The system is maintainable and scalable	Must	None

5.   Diagrams

5.1   Data-Flow Diagram (DFD)

LEVEL 1

level 2

5.2   Entity-Relationship Diagram (ERD)

6.   SQL Code

```
CREATE DATABASE db_LibraryManagement


CREATE TABLE Tracking_detail(
   Track_Id INT PRIMARY KEY NOT NULL,
   order_Id INT NOT NULL,
   status VARCHAR(100) NOT NULL,
);



CREATE TABLE Books(
   Book_Id INT PRIMARY KEY NOT NULL,
   Book_price INT NOT NULL,
   book_title VARCHAR(100) NOT NULL,
   author_name VARCHAR(100) NOT NULL,
);


CREATE TABLE Stock(
   Stock_Id INT PRIMARY KEY NOT NULL,
   Book_Id INT NOT NULL,
   Quantity INT NOT NULL,
);


CREATE TABLE Admin(
   Admin_Id INT PRIMARY KEY NOT NULL,
   Salary INT NOT NULL,
   Stock_Id INT NOT NULL,
   Phone INT NOT NULL,
```

```
    Admin_name VARCHAR(100) NOT NULL,

);

CREATE TABLE Reviews(

    Review_Id INT PRIMARY KEY NOT NULL,

    Rating INT,

    Comment VARCHAR(255) NOT NULL,

);




CREATE TABLE Customer(

    Customer_Email VARCHAR(100) PRIMARY KEY NOT NULL,

    creditCard_num INT NOT NULL,

    Address VARCHAR(100) NOT NULL,

    username VARCHAR(100) NOT NULL,

);


CREATE TABLE Order(

    Order_Id INT PRIMARY KEY NOT NULL,

    Book_Id INT NOT NULL,

    Customer_Email VARCHAR(100) NOT NULL,

    Total_amount INT NOT NULL,

);


CREATE TABLE Delivery(

    Delivery_Id INT PRIMARY KEY NOT NULL,

    Order_Id INT NOT NULL,

    Delivery_time VARCHAR(100) NOT NULL,

    Delivery_cost INT NOT NULL,

);
```

```
INSERT INTO Books (book_id, book_price, book_title, author_name)

VALUES

    (1, 19.99, 'The Great Gatsby', 'F. Scott Fitzgerald'),

    (2, 12.99, 'To Kill a Mockingbird', 'Harper Lee'),

    (3, 9.99, '1984', 'George Orwell'),

    (4, 15.99, 'Pride and Prejudice', 'Jane Austen');
```