



# COFFEE SHOP SYSTEM





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# **1.Introduction**

## **1.1 Purpose**

The system's primary goal is to create a coffee shop system by developing an application with numerous services, such as ordering and scheduling special events or birthdays, as well as cashier transactions

## **1.2 scope**

Scope is making app to customer can order and delivery deliver an order and making a program to calculate orders in cashier and booking events

## **1.3 References**

- Troy Cafe in Alexandria.
- Costa web: <https://www.costa.co.uk/>.
- Dunkin' Egypt application. ■ Costa Coffee (Brista bot).



# 2.Overall Description

## 2.1 Product Functions :

The system allows ease of ordering for the customer and ease of service, and the ease of entering the owner into the system and enabling him to know all the fees Paid from the cafe and the gains he made, linking all the corners of the cafe to the main system and creating an application for the cafe, ease of customer registration and creating an account, and ease of requesting a customer delivery from the application and ease of booking occasions on the application and ease to the owner to inter on the application by creating an account for him as an admin.

## 2.2 User Classes :

Application		Calculation system	Administration
<input type="checkbox"/> Client	<input type="checkbox"/>	Cashier	<input type="checkbox"/> Manager
		Delivery	
		Stuff for Booking	
User	What are available to use in the system?		
Client	<input type="checkbox"/>	First of all it can see menu, order, feedback, talk with support,order with its reward.	
Delivery	<input type="checkbox"/>	It same thing in cashier but it claims order in its system.	
Cashier	<input type="checkbox"/>	It opens log in page ,second page it is for order	
Manger	<input type="checkbox"/>	It allows to modify(edit) in application , it can modify prices inproducts .	
Stuff	<input type="checkbox"/>	It responsible for booking occasion.	



## 2.4 Assumptions and Dependencies

it is possible to give a lot of commands at the same time, and this happens and also to provide a secure system to prevent the hacker from entering, and to lock all the loopholes.

## 2.3 Operating Environment

The work environment of the system includes the presence of a computer and a small printer to operate the cashier system and the presence of one or more computers to organize event reservations and provide a mobile phone for each delivery person so that the system is an Android program for both the customer and the delivery and the event reservation organizer  
A desktop program for the cashier  
In the end, they are linked into one integrated system





A person wearing a white long-sleeved shirt and a dark brown apron is holding a brown paper coffee cup with a white lid. The background is blurred, showing what appears to be a coffee shop or cafe setting with warm lighting and some equipment. A semi-transparent grey banner with a fine white dot pattern is overlaid across the middle of the image.

**CUSTOMER**

# Customer

code	Requirements statement	Must/ should	comment
FR401	Home page : Registration or login	Must	login: username and password
FR402	Registration allows the customer to add his data : The first name - the second name – the phone number – the address in details – the password and confirmation it –and e-mail.	Must	
FR403	Page after login : There are buttons : "Order"--"book events"-- "Give a suggestion"--"contact us".	Must	
FR404	Order button : The page contain all products we can order it online .	Must	<b>Under each product : Quantity, size and price</b>
FR405	When the customer order a product He must enter his phone number, address, payment information Or cancel the order.	Must	
FR406	Book events button : The customer must enter his data The full name--the phone number--the event--the number of people agreed upon There are textbox to write special .	Must	
FR407	Give a suggestion button : There are a Textbox the customer can send any suggestion to the coffee shop.	Must	
FR408	<b>Contact us button : the phone number, social media and e-mail of coffee shop.</b>	Must	







**CASHIER**



# Cashier

Code	Requirement statement	Must/should	Comments
FR001	The first step is when you open the cashier, a box for the password appears, which is the key to enter the cashier.	MUST	the cashier employee, and the owner who knows it only
FR002	A page appears with several buttons, such as the "menu" that contains all kinds and types of drinks and sweets that the cafe owns.	MUST	
FR003	After pressing the "menu" button, many buttons appear on the next page, such as hot and iced drinks and sweets, and when you press any of them, the drinks appear with their prices	MUST	And I put it into a page if the owner wants to add another kind of drinks
FR004	There is also on the main page a button for the delivery.	MUST	The delivery is connecting with the app.
FR005	button for the offers offered by the cafe,	Should	If the owner wants.
FR006	When the customer makes an order by calling the cafe, the cashier employee click on the delivery button and enter customer number.	MUST	If the call by mobile not by app
FR007	When customer makes an order by using the app, cashier will receive a message that include customer number and his address. And we receive his location by the GPS in the app.	MUST	If there's any mistakes in the address.
FR008	There is also a box like a mailbox sign in which the main cashier receives a message with the reservation of events, hall number, date and price, which he receives from the event reservation officer.	MUST	
FR009	And there is also a button for a for daily inventory with details of all the earnings, the paid requests, the money that was paid from the cashier and the dues. When the owner presses this button, a box appears for him to type his password, then all the details appear to him.	MUST	If the owner wants to check from the cashier
FR010	<b>The owner can also access the system from his office, as he is able to know all the dues and everything that was mentioned in the previous equation</b>	MUST	





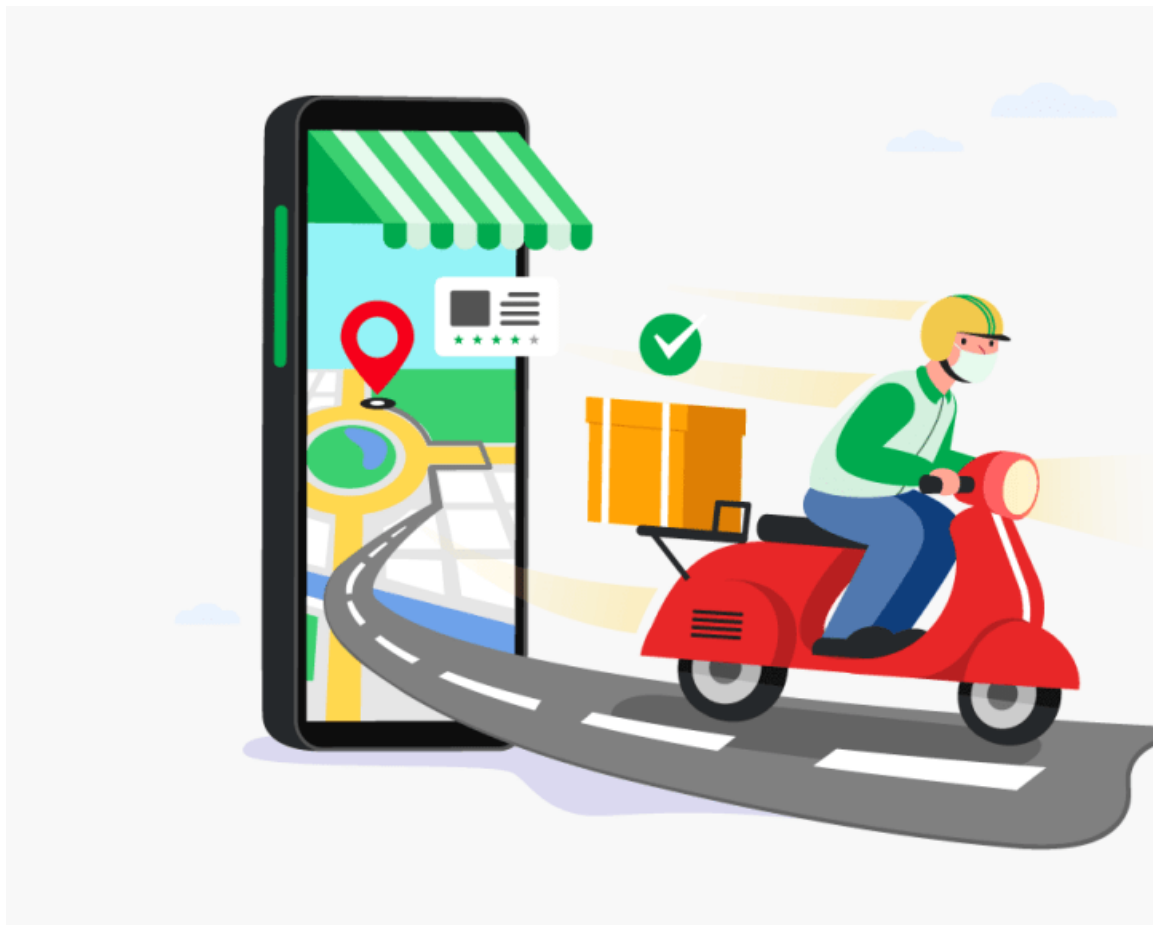
# EVENT RESERVATION



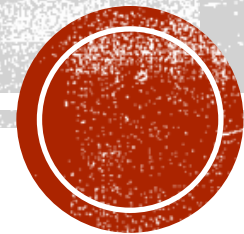
# EVENT RESERVATION

Code	Requirements statement	Must/should	Comments
FR101	There is a small cashier for the event booking employee, first when you open it, a box appears to write the password	MUST	
FR102	Then, on the next page, large boxes appear, for each box the name of the hall in which the event takes place	MUST	
FR103	Then when he presses any button from the halls, the details of the hall appear, and it can accommodate a number of people and its price and free times and busy times.	MUST	
FR104	Then when the reservation process is completed, the employee presses the confirmation button at the bottom of the screen, and it is automatically sent to the main cashier with the name of the hall and the price.	MUST	
FR105	Also, when the reservation is completed, the process is saved automatically, if the customer cancels	MUST	
FR106	<b>the reservation, the employee simply cancels the reservation and clears the process. But it is noted in the registry so that the owner knows everything.</b>	MUST	





# DELIVERY



Code	Requirements statement	Must/should	Comments
<b>FR301</b>	delivery are registering In program and he going to specific system, he have a different system.	Must	he have a ID to enter their System
<b>FR302</b>	Delivery has a system to contact with cashier, this system is chat box to know if it has an order and when order is ready.	Must	
<b>FR303</b>	<b>Deliver after take a order switch to another page (interface). in this page .delivery have a GPS to know where I have to go , and details about client like where he is from , phone number and price of the order .</b>	<b>Must</b>	

# DELIVERY





**MANGER**



# Manger

Code	Requirements statement	Must/want	Comments
<b>FR201</b>	Regarding the Android application, the first page of the application should be a loginpage in which the username and password is registered with which the customer is registered if he does not have an account in the application. So that the administrator has the authority to access all parts of the system and has a special username and password.	Must	<b>He must write his username and password</b>
<b>FR202</b>	After logging in, a page appears with several buttons, which are "Menu", "Event Reservations", "Delivery Requests", "Complaints and Suggestions", and "ModifyContact Us"	Must	
<b>FR203</b>	<b>When you press the "menu" button, an interface appears with the products offered to the customer, and below each product is a button to modify the price and a button to remove the product, and at the bottom of the page is the "add a new product" button, and when entering it, a page appears with a place to write the name of the product, a place to write its Price, a place to put a picture of the product and a place to put details of the product.</b>	Must	
<b>FR204</b>	<b>When he clicks on the "Event bookings" button, a page appears showing the reservations made from the newest to the oldest. And when he clicks on one of the reservations, the reservation details appear to him, which is the price that was paid and the method of payment (cash or credit card) the time and day the reservation was made.</b>	Must	
<b>FR205</b>	When he clicks on the "Delivery orders" button, a page appears with orders made from newest to oldest, and when he clicks on an order, the order details, which items were ordered, price, payment method (cash or credit card), time and day of the order.	Must	
<b>FR206</b>	When he presses the "Complaints and Suggestions" button, a page appears with a list of complaints and suggestions and is reviewed by the manager.	Must	
<b>FR207</b>	<b>when he clicks on the "Modify Contact Us" button, a page appears with the registered numbers and emails, and below the "Modify and Add" button, and when you click on it, he can modify the numbers and emails or add new numbers and emails.</b>	Must	



# Non-functions

## Performance

Code	Requirements statement	Must/should	Comments
NFR101	Identification of the user is vital when using credit card transactions, so the user's contact information must be provided.	Must	

## Security

Code	Requirements statement	Must/should	Comments
NFR201	Except for the administrator, users can only view information about any product; they cannot edit or alter anything in the system.	Must	

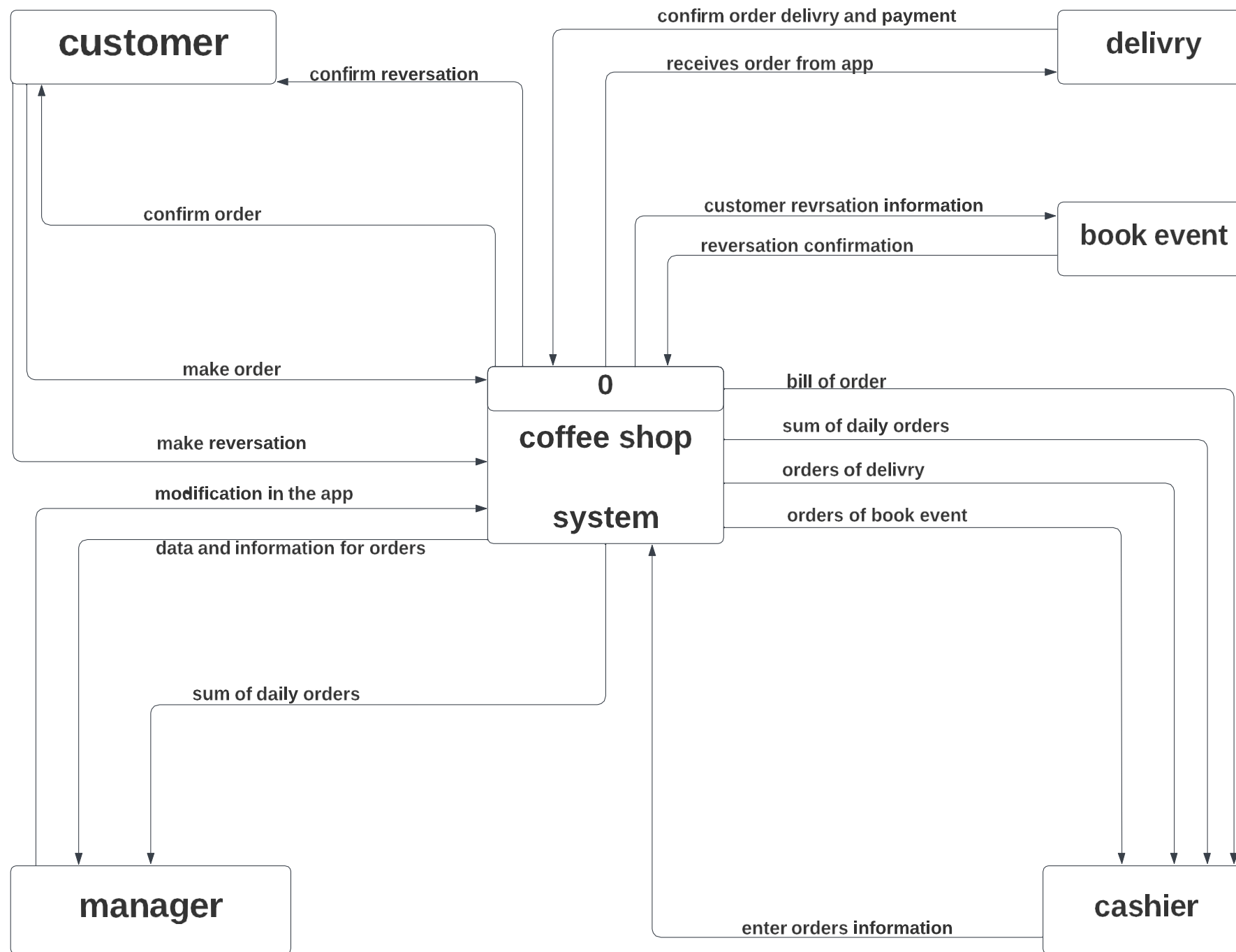
## Safety

Code	Requirements statement	Must/should	Comments
NFR001	The system will present product information in a clean and quick manner and allow the user to easily return to the main interface.	Must	
NFR002	The system's accessibility is tracked by the user using a GPS system for order delivery, and the delivery duration should not exceed 30 minutes.	Must	
NFR003	Switching from one tab to another in the application takes less than two seconds.	Must	

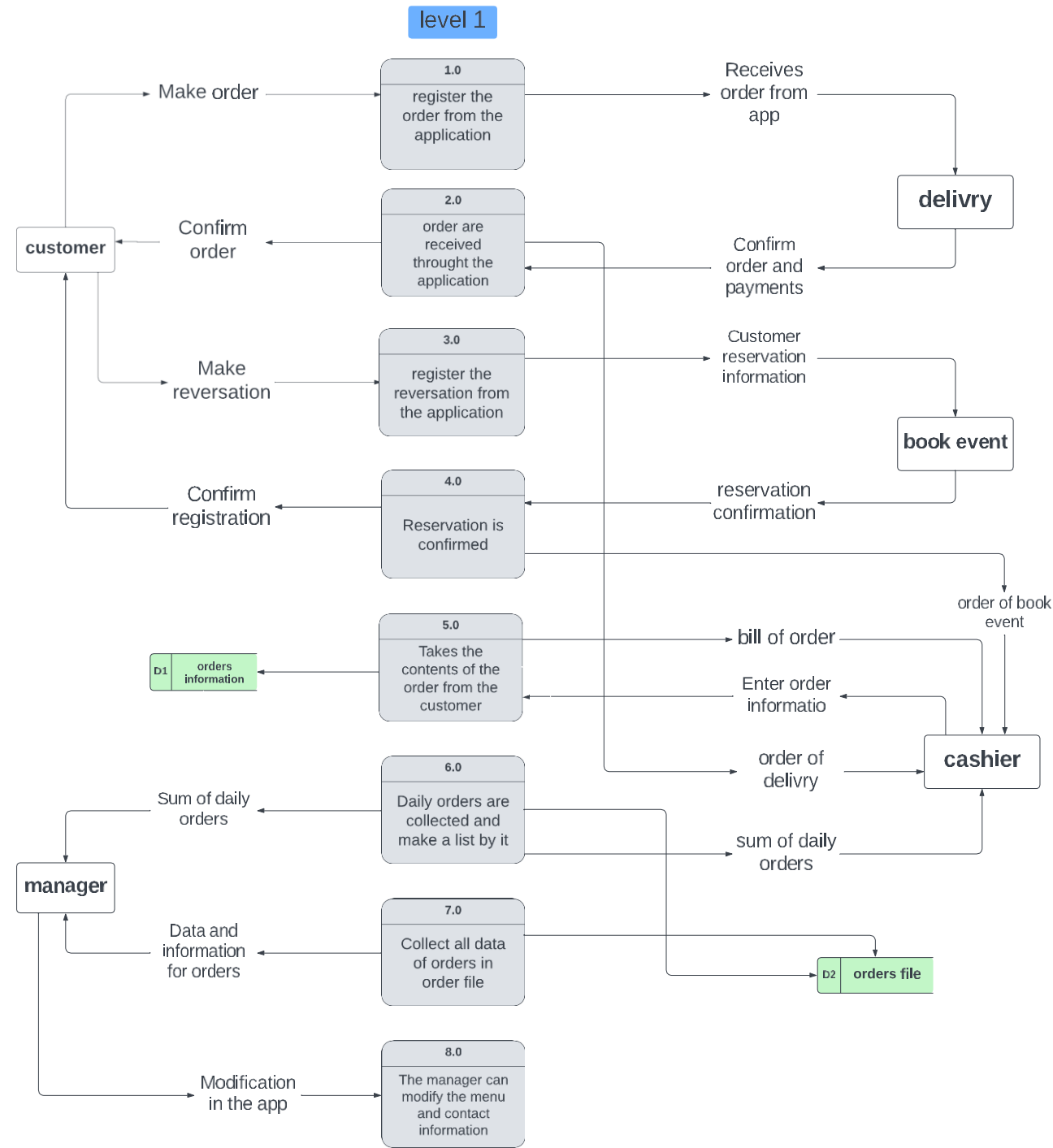




# DFD



# DFD



# ERD

