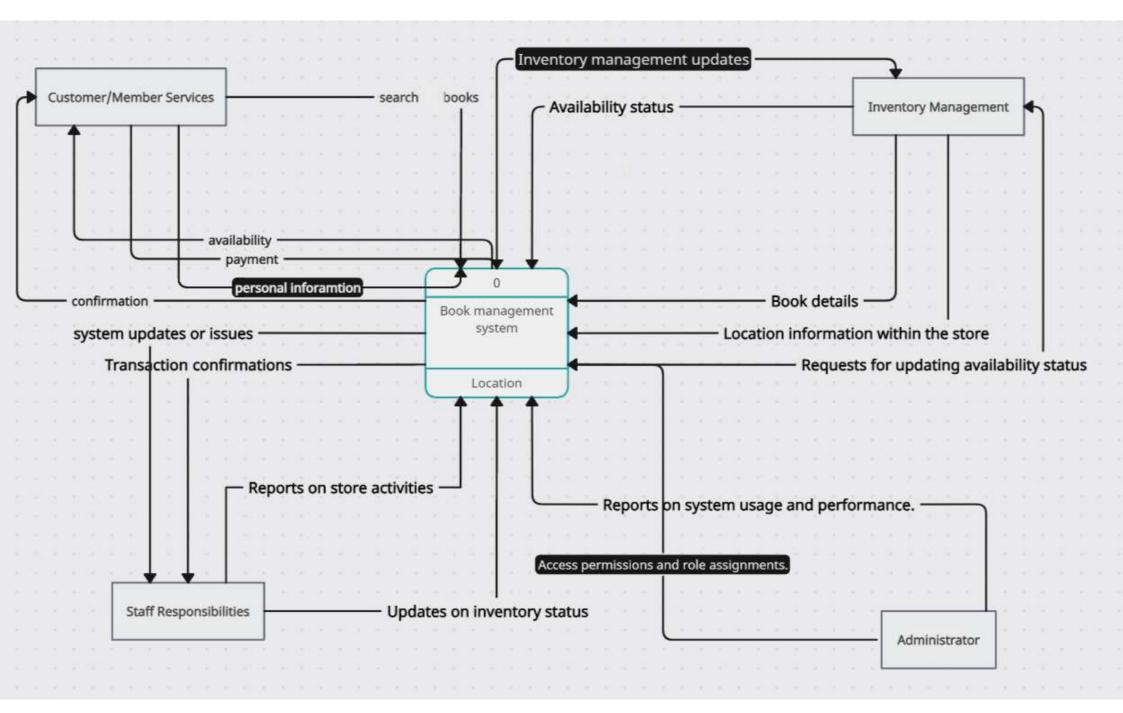
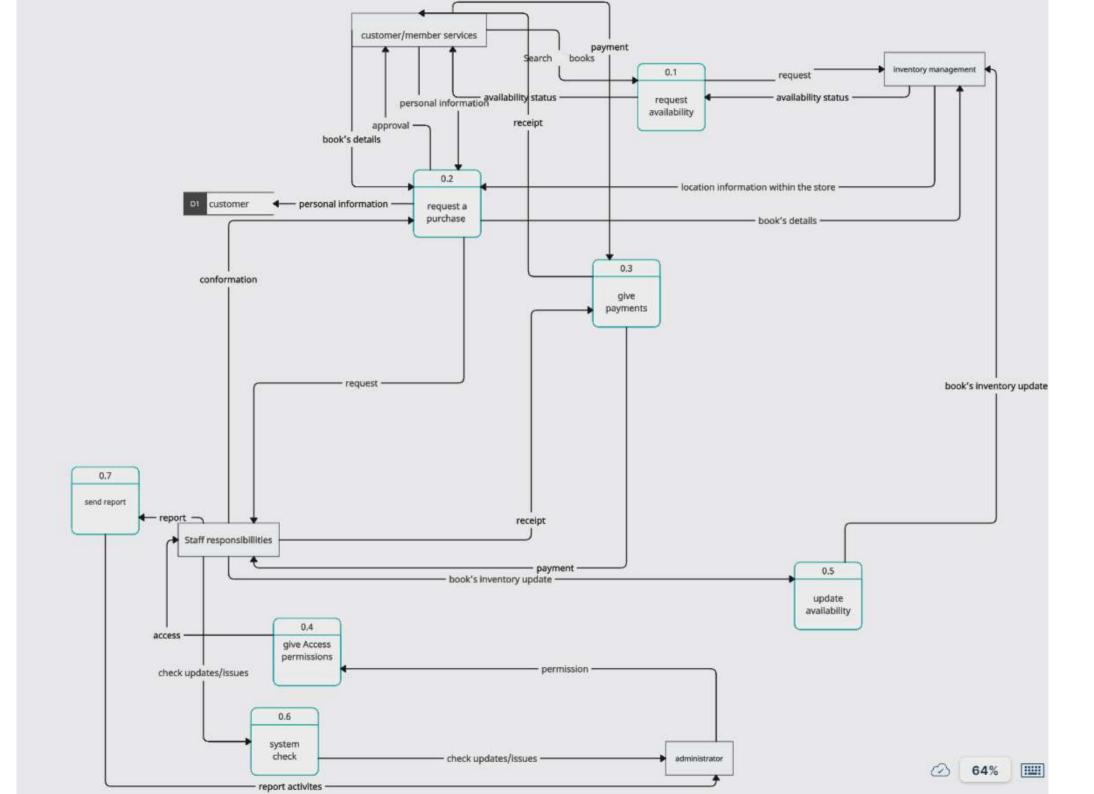
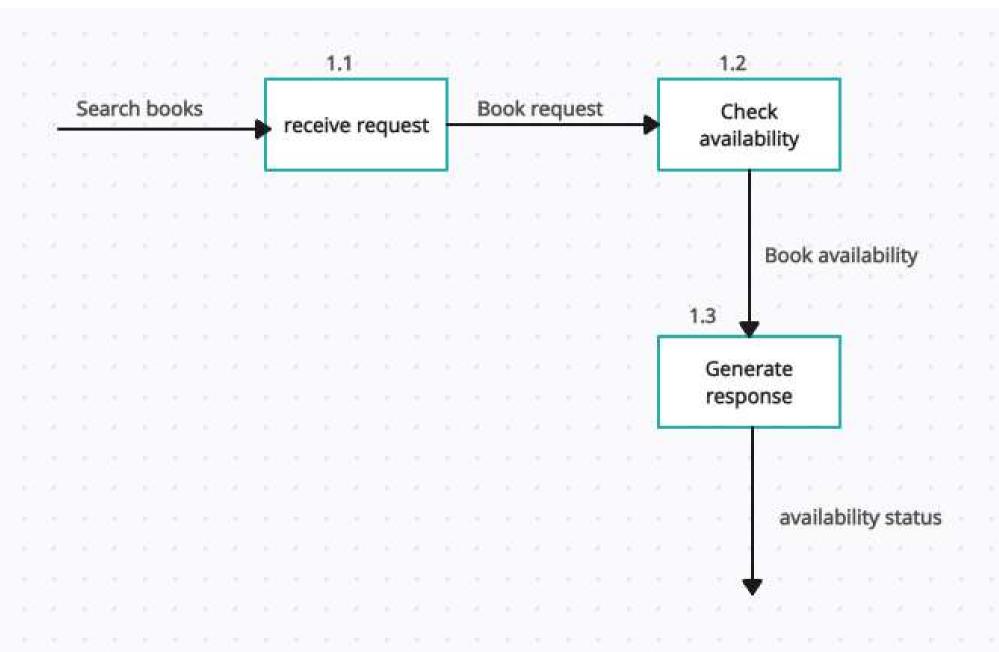
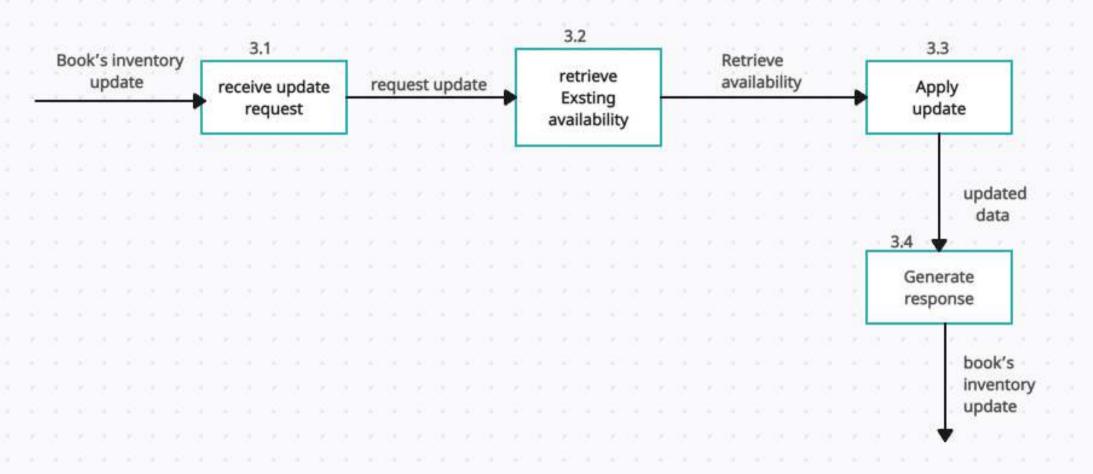
# (Book store management system )

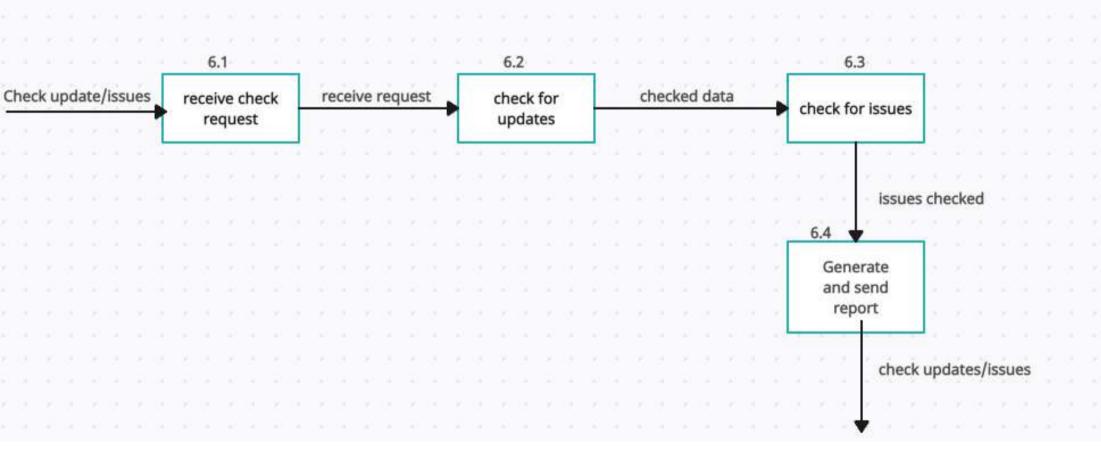
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- -Ali mohamed 200012168
- -Laith ali 200019469
- -Adam ashraf 200019512
- -Khaled kamar 200013171



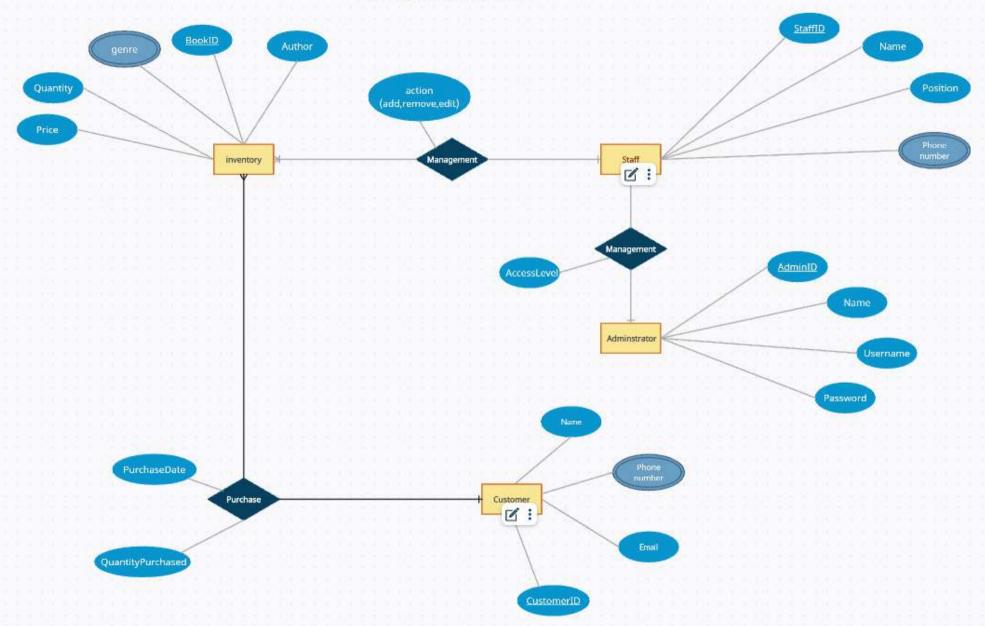


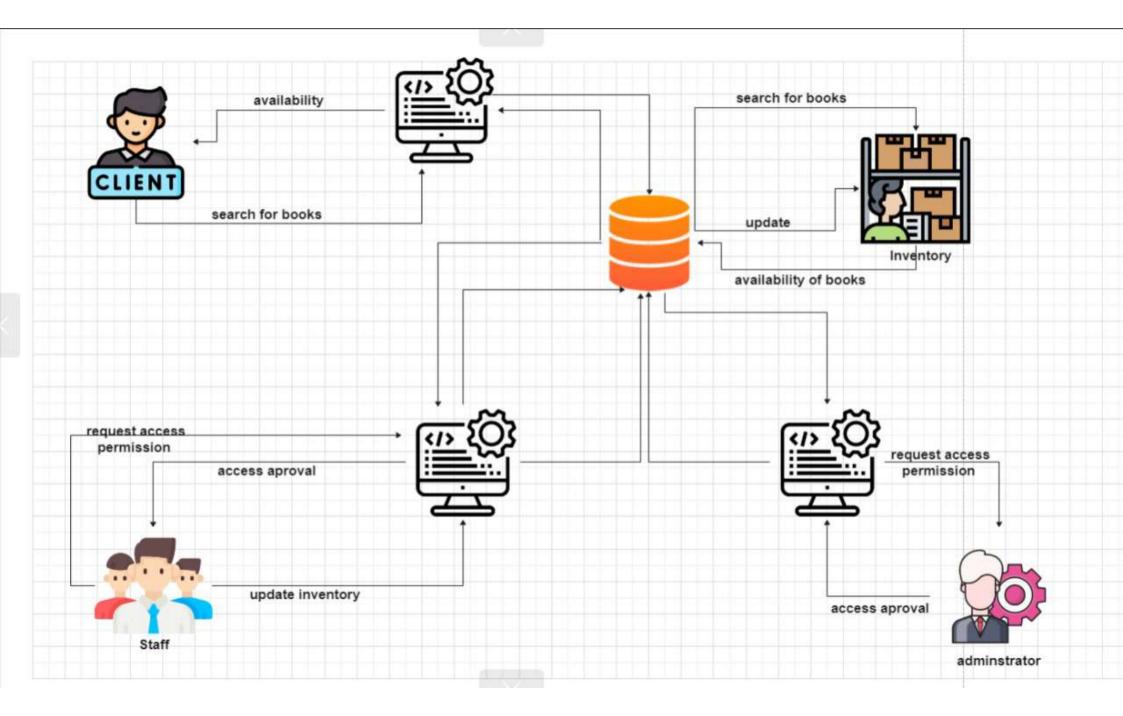






E-R Diagram of Library Management System





# 3.8.8.1 External Entities

# External Entity ref: E1

Customer/Member

Description: user of the system who buys the books

Inputs	Outputs
1. Approval	Book's details
2. Availability status	<ol><li>Personal information</li></ol>
3. Receipt	<ol><li>Search for books</li></ol>
	4. Personal information
	5. Payment

External Entity ref: E2

Inventory management

Description: Entity that is responsible for managing the stores inventory

Inputs	Outputs	
1. Request	<ol> <li>Availability status</li> </ol>	
<ol><li>Book's details</li></ol>	2. Location information	
3. Book's inventory update	within the store	

# External Entity ref: E3



Description: The book store's staff

Inputs	Outputs	
Request	1. Report	
2. Payment	2. Confirmation	
<ol><li>Access</li></ol>	3. Receipt	
	4. Book's inventory	
	update	
	<ol><li>Check</li></ol>	
	updates/issues	

## External Entity ref: E4

Administrator

Description: A person who take responsibility for controlling the company includes budgeting and client services.

Inputs	Outputs	
Report activities     Check updates/issues	1. Permission	

#### 3.8.8.2 Process

## Process ref: P1

Request availability

Description: This process requests the availability of a book in the inventory

Process	Input	Output
Requests the availability of a book in the inventory		Request     Availability status

## Process ref: P2

# Request a purchase

Description: This process requests a purchase of a book

Process	Input	Output
Requests a purchase of a book		Personal information
	Personal information	2. Book's details
	<ol><li>Location information within</li></ol>	
	the store	
	4. Confirmation	

#### Process ref: P3

Give payments

Description: This process goes through with the payment procedure

Process	Input	Output
Goes through with the payment procedure	e 1. Payment	1. Receipt

## Process ref: P4

Give access permission

Description: This process gives access permission to the staff

Process	Input	Output
Gives access permission to the staff	1. Permission	1. Access

## Process ref: P5

Update availability

Description: This process updates the inventory

Process	Input	Output
Updates the inventory	Book's inventory update	Book's inventory update

# Process ref: P6

System check

Description: This process checks the issues and updates the system

Input	Output
Check updates/issues	Check updates/issues

# Process ref: P7

Send report

Description: This process sends the report to the administrator

Input	Output
1. Report	Report activities
	Input  1. Report

#### 3.8.8.3 Data Flow

#### Data flow ref: F1

#### Search

Description: Send Services that will be displayed to client from Services through process 1.

<del>+</del> ‡+	through process 1.		
	Source	Destination	Included Data
	Customer services	Request availability	Services displayed to client
			from Service to search book

#### Data flow ref: F2

#### payment

Description: the photos of services that presented to the client.

Source	Destination	Included Data
Customer	Give payments	Customer product payments

#### Data flow ref: F3

#### Availability status

Description: Send the data of the client from Clients through process 1.

Source	Destination	Included Data
Request availability	Customer	Conforming product availability

#### Data flow ref: F4

## Receipt

Description: Send the E-mail and Password from Clients through process 1.

Source	Destination	Included Data
Give payments	Customer	A receipt to conform
		customer preaches

#### Data flow ref: F9

#### Book's detail

Description for the types of and detail of book's

Ц.			
	Source	Destination	Included Data
	Customer	Request a purchase	The client search about the book details

Data flow ref: F10

## Apperoval

Description: getting approval from the system to buy the item

Source	Destination	Included Data
Request a purchase	Customer	Getting approval from the
		ystem

Data flow ref: F11

#### Request

Description: requesting to check book availability

Source	Destination	Included Data
Request availability	Inventory management	Check weather book is
		available or not

Data flow ref: F12

location information

within the store

Description: location of book

Source	Destination	Included Data
Inventory management	Request a purchase	Check location of the item

Data flow ref: F13

book's inventory

update

Description: a respond is sent to Clients from process 3.

<del>+</del>‡+

Source	Destination	Included Data
Update availability	Inventory management	Check what the inventory
		needs

Data flow ref: F14

Personal

information

Description: insert of the customer information

Source	Destination	Included Data
Customer	Request a purchase	To put client information

Data flow ref: F15

conformation

Source	Destination	Included Data
Staff responsibilities	Request a purchase	To conform the purchase

Data flow ref: F16

accesses

Description: Clients send the size through process 4.

Source	Destination	Included Data
Give access permission	Staff responsibilities	Staff system access

Data flow ref: F17

Description: the style of dress or suit is sent from Clients through process 4.

CHAPTER 3: SYSTEM ANALY

## Data flow ref: F22

Check updates

&issues

Description: check update and issues

Source	Destination	Included Data
Staff responsibilities	System check	To check system

Data flow ref: F23

Report

Description: send reports

Source	Destination	Included Data
Staff	Send reports	Send reports
responsibili		from the
ties		system

Data flow ref: F24

permission

Description: administrator .premission

Source	Destination	Included Data
Administrator	Give access permission	Admin permission

Data flow ref: F25

check update

and issues

Description: check update and issues

Source	Destination	Included Data
Check system	Administrator	Checking system by Administrator