

# BOOK STORE MANAGEMENT SYSTEM

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# 1. INTRODUCTION

## 1.1. Purpose.

The purpose of this document is to describe store (Book) management system. This document contains the functional and non-functional requirement of the project. This document contains the guidelines for Book store developers engineer & designers to start working for the project.

## 1.2. Scope

BSMS product is basically updating the manual store system into internet based application. so that the customers can know the details of available books, newspaper & items. as well as shopkeeper can manage the account and know about available items.

This BSMS can work for large stores can provide a free, easy to use system for shopkeeper, manager & customer.

## 1.3 Audience Definitions, Acronyms & Abbreviations

### 1.3.1. Audience definitions:

The interested readers of this document are the developer of the system, testers, store managers and coordinators.

Any suggested changes on the requirements listed on this document should be included in the last version of it so it can be reference to developing and validating teams.

### 1.3.2. Acronyms & Abbreviations

Acronym.	Meaning
• BSMS	Book store Management. System.
• BSM	Book store Manager.
• BSC	Book store customer.

### 1.4. References

- ANSI / IEEE SRS Standard. 830 - 1984.
- NPTEL Notes / Lecture Notes.

### 1.5. Overview

Section 2 defines the general function of BSMS, operating environment and user constraints along with our assumptions.

Section 3 specifies functional and non-functional requirements, all of them are described to level of details sufficient for designer to design a system.

Section 4, illustrates interfaces, and its possible scenario, & their general idea.

Section 5, specifies about data store.



## 2. OVERALL DESCRIPTION

### 2.1 Product Perspective

BSMS is a replacement of manual store management system which depends on paper work for recording books & customer details.

BSMS will provide an advanced book search mechanism, and from this we will be able to borrow and index a book in the store.

### 2.2 Product Functions

#### 2.2.1. Administrators,

- Admin should be able to insert, modify and delete items.
- Can accept or reject borrow according to payment method availability.
- Can get report of the customer who has borrowed the book.
- Item availability checked by the customer.
- Item search facility & update according facility is available.

#### 2.2.2. Normal users,

- Manager of the shop handling the store information, such as buy, sell & stock update and all.
- Customers may suggest desired item, may be, brought to the shop.
- Give suggestions for the book if desired. Book is not available.

### 2.3 Operating Environment

The BSMS is a website available for all famous Browsers such as Chrome, Internet Explorer, Safari, Brave etc. which supports new Technology such as Java-script.

### 2.4 User characteristics.

Users of this website are BSM & BSC. BSM maintains this website & have basic knowledge of computers & Internet Browsing. Administrators of the BSMS, should have more knowledge of Internal Modules of the system and are able to rectify small problems that may arise, to disk crashes, power failure and other catastrophes. Friendly user interface, online help & user guide must be sufficient to educate the users on how to use the product without any problems or difficulties.

### 2.5 Design & Implementation Constraints.

- The information of all customer, books must be stored in database & Books information must be accessible by the website.
- Customer may access BSMS from any computer that has Internet Browsing capabilities to educate the users on how to use.
- Customers must have to register or have account in order to use this facility.

## 2.6 Assumptions and Dependencies

The product needs the following third party products.

- Microsoft SQL server to store the database.
- ASP.net to develop the product.

The success of this system depends on.

- Existence of internet service to all the desired people.
- Customer & BSM are comfortable with computers and have connection to work & product.
- Website interface must be friendly and easy to use.



### 3. Specific Requirements

#### 3.1. Functional Requirements

##### 3.1.1 Manager

Prerequisite: (admin signed in) for all requirements below.

Requirement ID: R1.01.01.

Title: insert book.

Description: This action is done to insert book into BSMS.

Requirement ID: R1.01.02.

Title: insert items.

Description: This action is done to insert pen & other such items into BSMS.

Requirement ID: R1.01.03.

Title: validate customer account.

Description: When a new customer register or login he will have to wait for entry till validation.

Requirement ID: R1.01.04.

Title: update book.

Description: If customer borrow the book then quantity must be updated & in case if it is empty do work accordingly.

##### 3.1.2 Normal User (customer)

Requirement ID: R1.02.01.

Title: register.

Description: When new user enters BSMS for the first time then he has to register.

Requirement ID: R1.02.02.

Title: login

Description: existing user directly login & enters the BSMs.

Requirement ID: R1.02.03

Title: Edit personal information.

Description: If some user wants to change mobile no. or email or Address. he can modify it.

Requirement ID: R1.02.04.

Title: Reset Password.

Description: When an existing user forget his password he can claim it back via email or mobile through SMS.

### 3.1.3. Common functions

Requirement ID: R1.03.01.

Title: search for book.

Description: when customer wants to search on some book by name, author or subject etc.

Requirement ID: R1.03.02.

Title: search for items.

Description: When customer wants to search for pen or any other such book store information.

Requirement ID: R1.03.03

Title: Contact us.

Description: This is for customer to contact Manager. in case of trouble shooting or problem.



## 3.2 Non Functional Requirements.

### 3.2.1. Error Handling.

- BSMS product shall handle expected and non-expected errors in ways that prevent loss in information and long downtime period.

### 3.2.2. Performance Requirements.

- The system shall accommodate nearly 10 lakhs books & 5 lakhs users without any fault.
- Response to view information shall take no longer than 3 seconds to appear onscreen.

### 3.2.3. Safety Requirements.

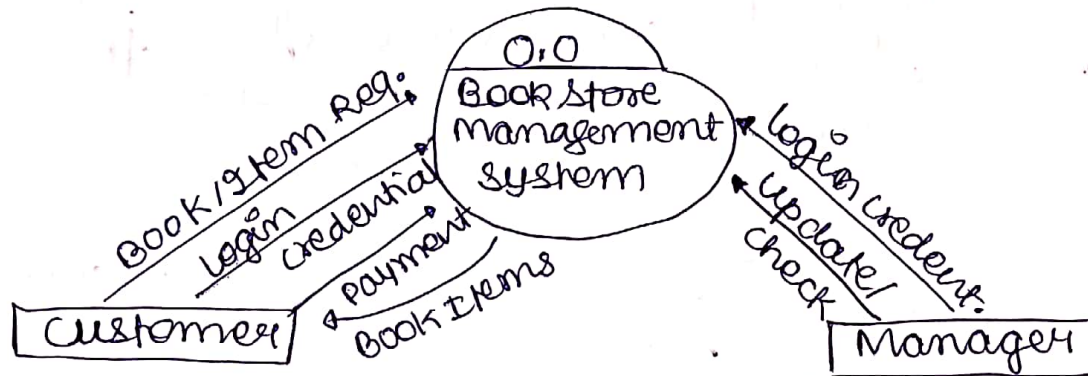
- Safety means it does not perform to anyone via any means.

### 3.2.4. Security Requirements.

- System will use secured database.
- Normal customer can just read information but they cannot edit or modify anything except their personal and some other information.
- System will have different type of user & every user have some constraints for accessing database.

► Level-0 DFD for.

Book-Store Management System.  
(Context-diagram).



Here,

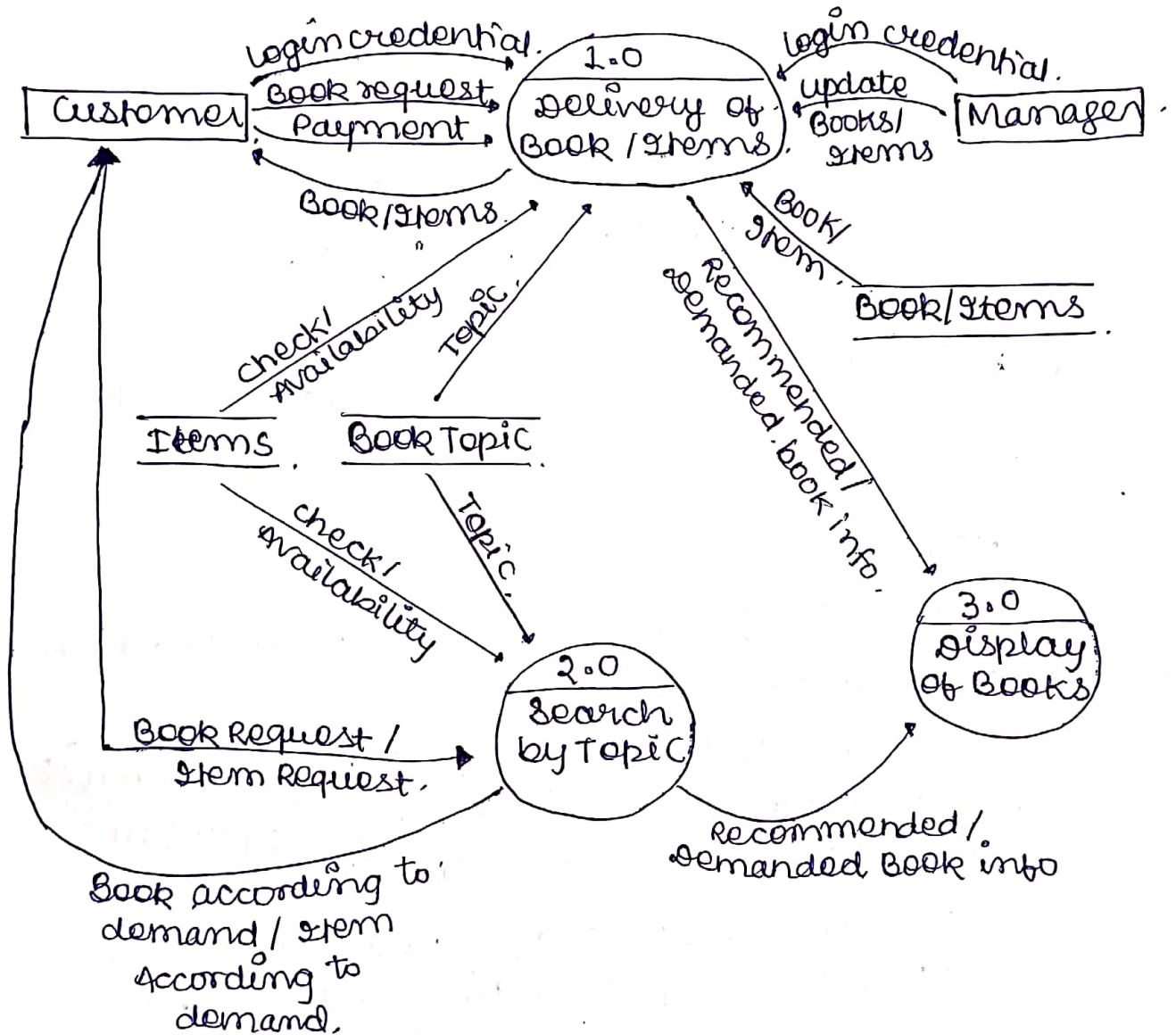
→ customer & manager are main user of the system

→ Customer & manager both have to submit their login credential and verify them in order to enter into the BSMS.

→ Customer & manager both have their different requests. like customer can request for item & book whereas, manager will update & check the store items.

► Level 1 DFD for

Book Store Management System.



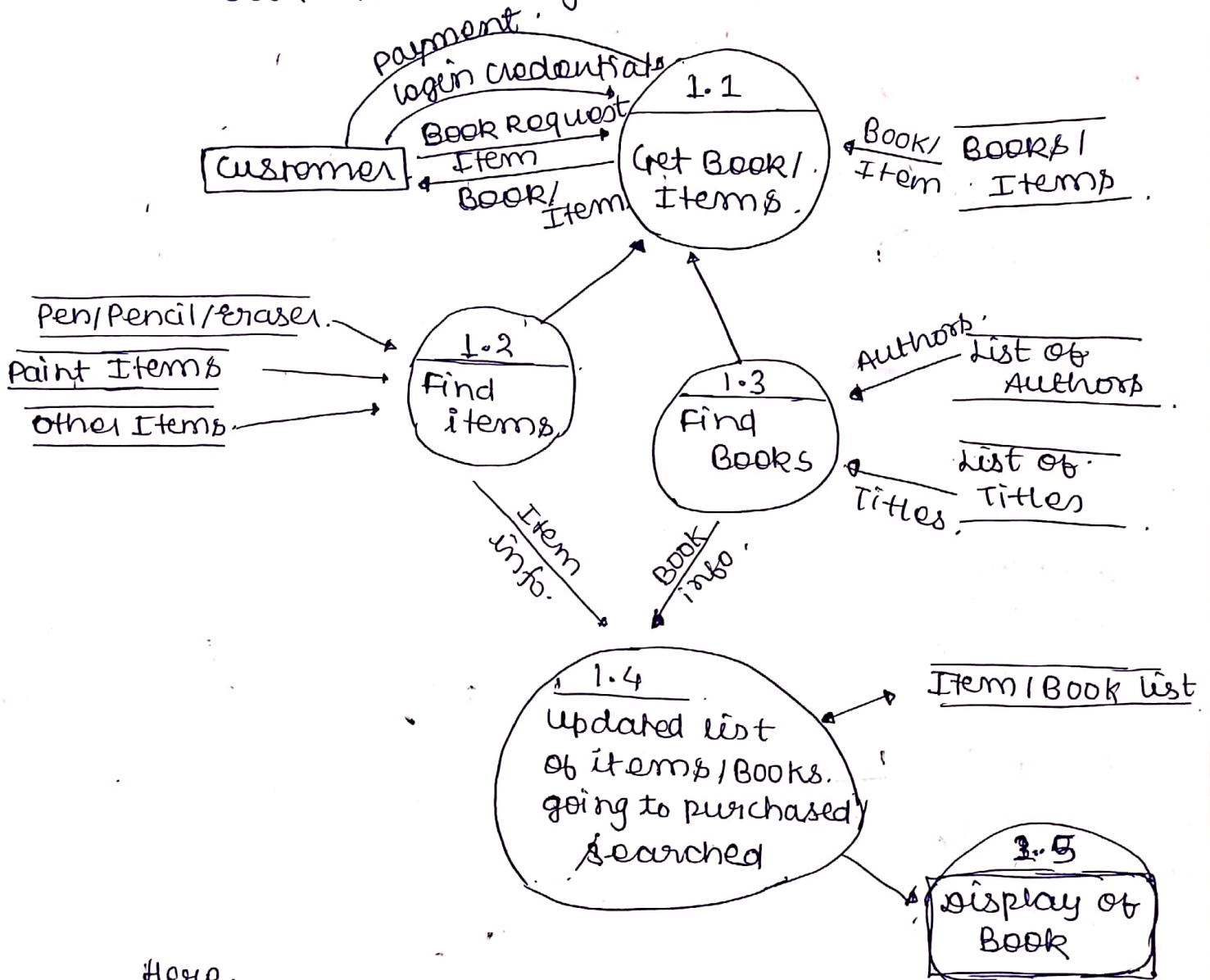
Short Description:

- Here customer enters into system by login credential.
- Search for Book / Items & know about availability
- So payment & get the books.



► Level-2 DFD for.

Book Store Management System.



Here,

delivery of Book/Items is further break into smaller ones.

- Customer request for Books & Items.
- Go to items side for checking availability of items
- Go to book search side for checking or searching for books.

► Data-dictionary for Book Store Management System.

Table Name: Manager/ Customer (users).

Description: manages the store / Buys items.

Fields.	Data-type.	Null/Not Null	Description.
user_id.	int.	NOT NULL	PRIMARY KEY.
user_name	varchar(50)	NOT NULL	-
user_mobile	varchar(20)	NOT NULL	-
user_email	varchar(50)	NOT NULL	-
user_address	varchar(100).	NOT NULL	-
user_desc.	varchar(100)	NULL	-

Table Name: login

Description: verifies the user.

Fields	data-type.	NULL/ NOT NULL	Description.
login_id.	int.	NOT NULL	PRIMARY KEY
login_username	varchar(25).	NOT NULL	-
user_password.	varchar(50).	NOT NULL	-

Table Name: Roles.

Description: stores the Role of user.

Fields	data-type	NULL/ NOT NULL	Description.
role_id.	int	NOT-NULL	PRIMARY KEY.
role-name	varchar(50)	NOT-NULL	-
role_desc.	varchar(50)	NOT-NULL	-

Table Name: Book.

Description: stores the information of Book

Fields	Data-Type	NULL/ NOT NULL	Description.
book_id.	int	NOT NULL	PRIMARY KEY
book_name.	varchar(50)	NOT NULL	-
book_author.	varchar(50)	NOT NULL	-
book_type.	varchar(50)	NOT NULL	-
book_price.	float	NOT NULL	-
book_desc.	varchar(50).	NOT NULL	-

Table Name: Items.

Description: stores the information of other items.

Fields.	Data-Type	NULL/ NOT NULL	Description.
item_id.	int	NOT NULL	PRIMARY KEY
item_name	varchar(50)	NOT NULL	-
item_desc.	varchar(50)	NOT NULL	-
item_price.	float.	NOT NULL.	-

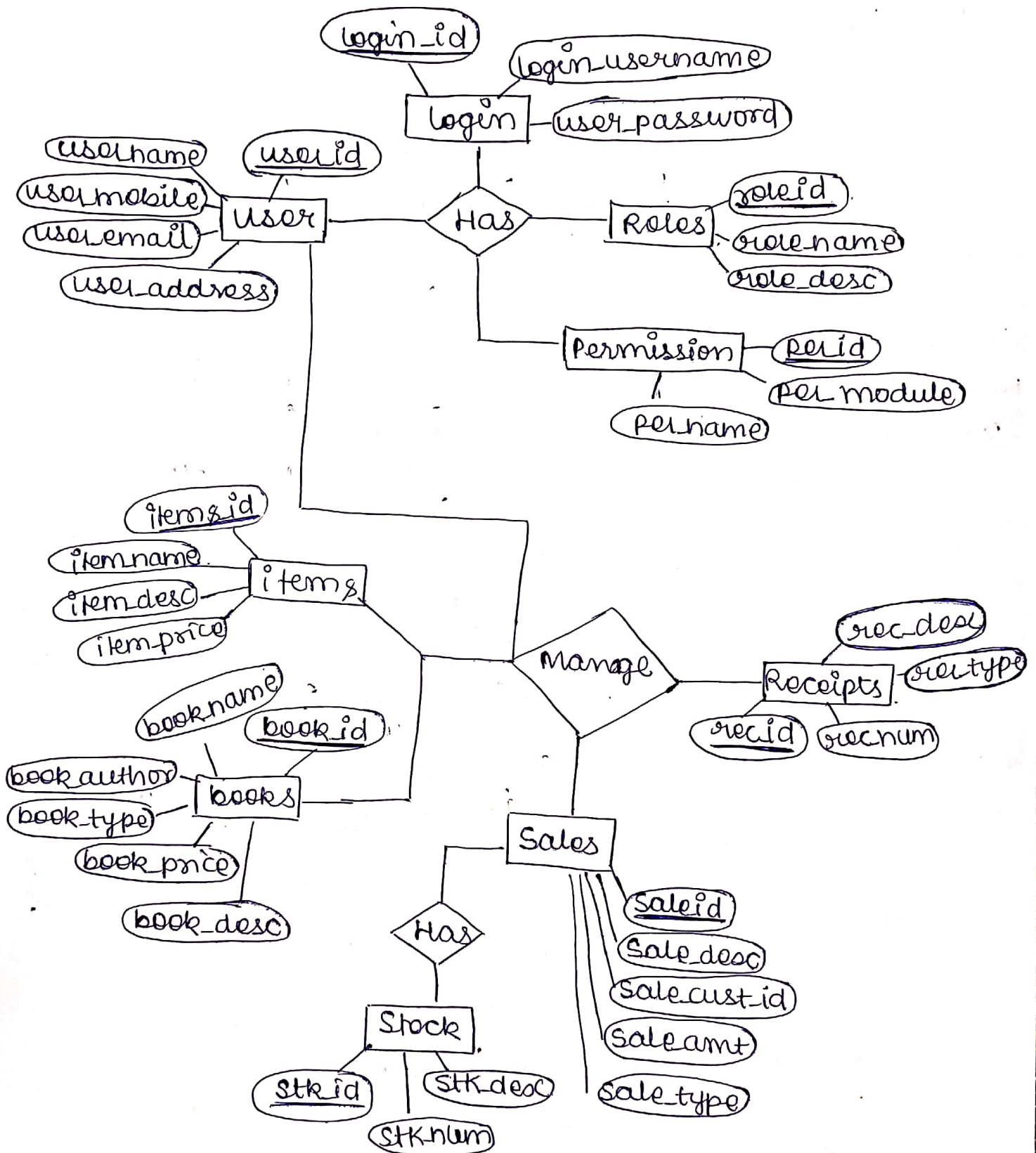
Table Name: sales.

Description: sales information of customer.

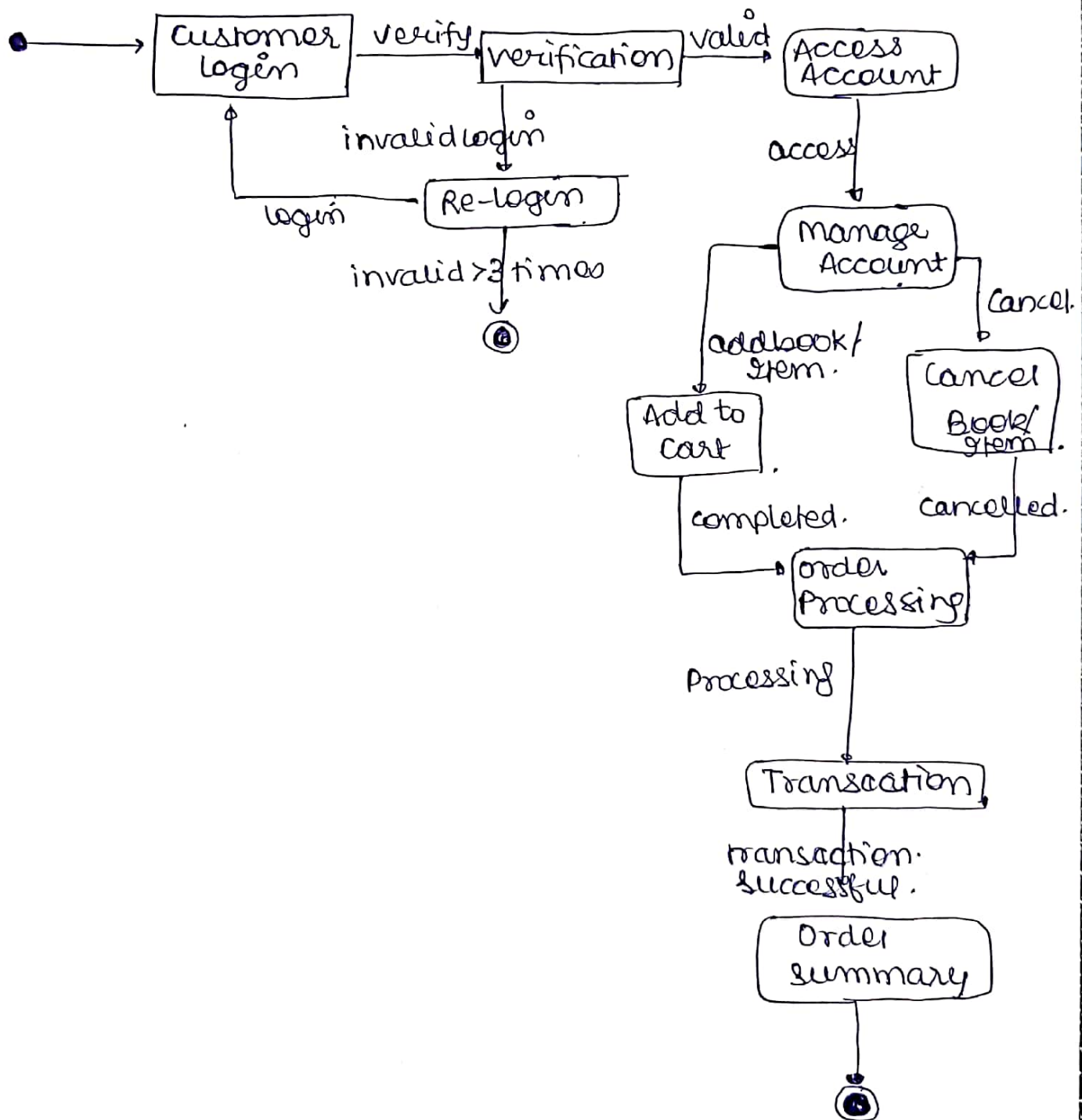
Fields.	Data-type	NULL/ NOT NULL	Description.
sales_id.	int.	NOT NULL	PRIMARY KEY
sales_desc.	var char(50)	NOT NULL	-
sales_custid.	varchar(50)	NOT NULL	-
sales_amt.	float	NOT NULL	-
sales type.	varchar(20)	NOT NULL	-



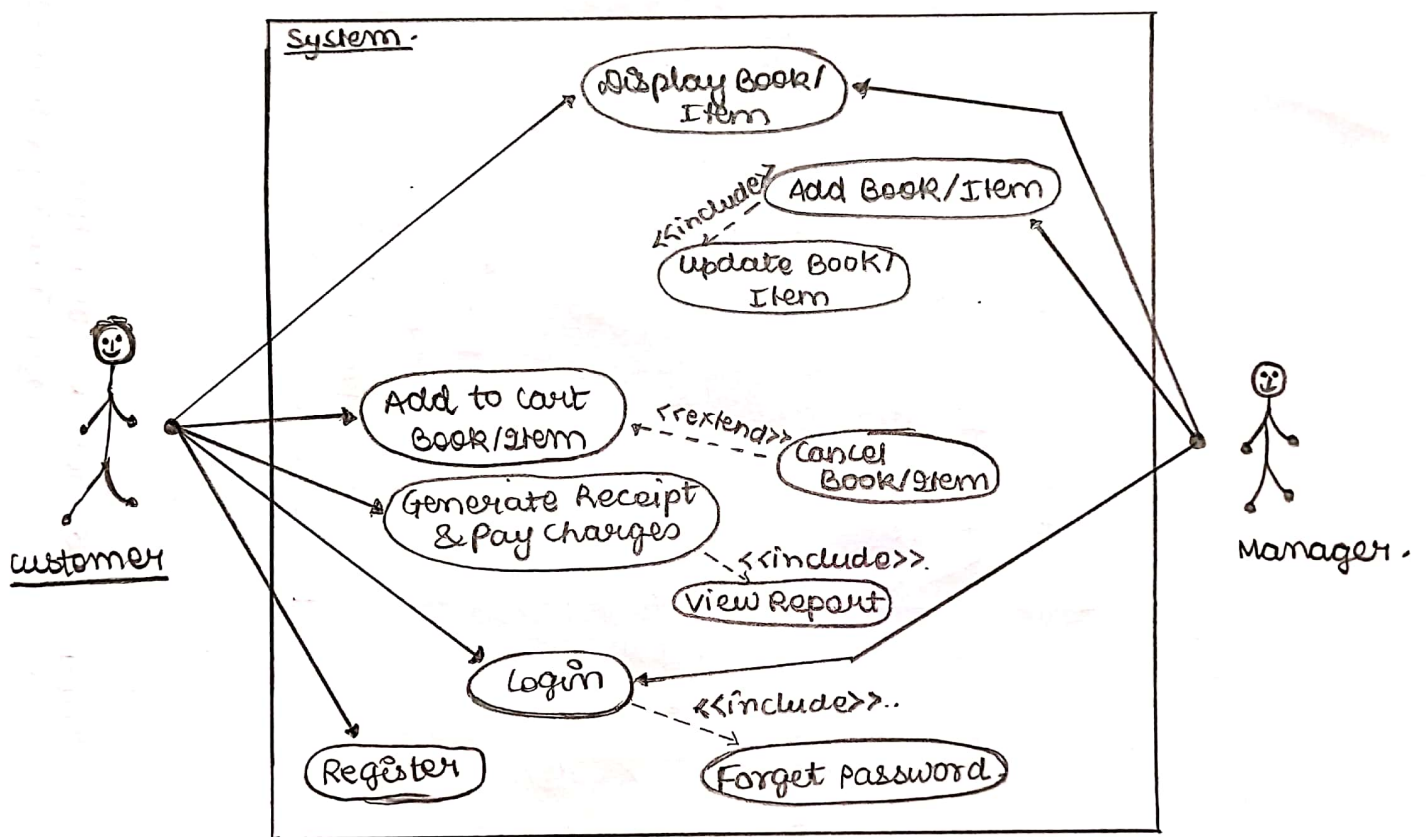
# ER diagram for Book store management system.



State-Transition diagram for Book store Management system.

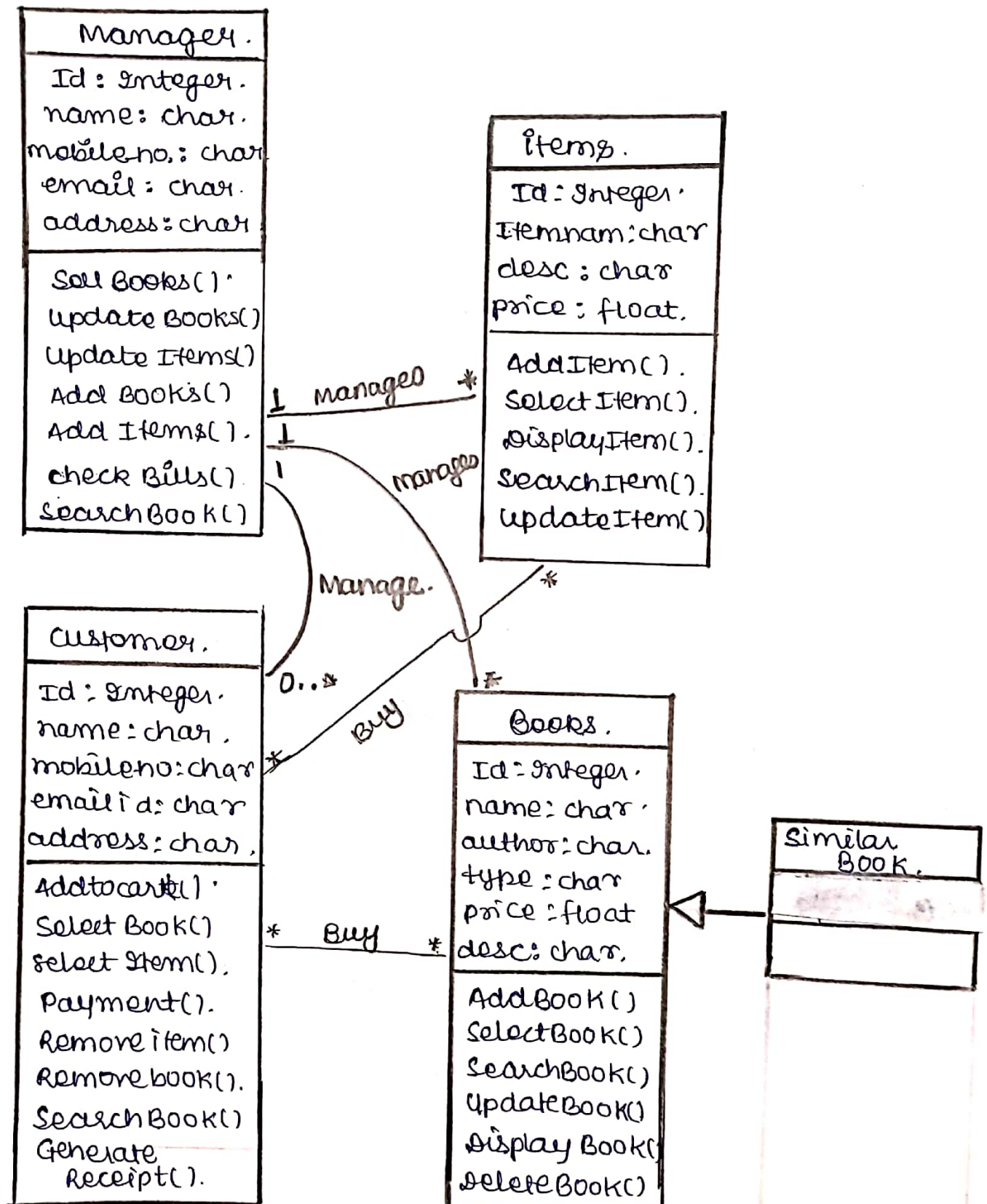


Use-case Diagram.  
for Book Store Management System





## Class Diagram for Book Store Management System-



State-Chart diagram for Book-store.  
management system.

