Defining DBMS Project Scope
Online Book Store (SensibleReads)

- **Bookstore Manager**
  In the context of the online book store system, the equivalent of the Book Store Manager would be the Admin or System Administrator. The Admin is responsible for managing the entire database, overseeing the procurement of books, handling vendor registrations, and ensuring the system's smooth operation. They approve requests for new books and have the authority to update the inventory based on demand and popularity.

- **Books**
  Books in the online book store system are the primary products offered. The system manages detailed information about each book, including title, author, genre, and synopsis. The Book Store Manager approves requests for new books. The system keeps track of the available stock.

- **Customer**
  Customers browse the book catalogue, choose books for purchase, and provide personal information, including name, date of birth, city, contact number and preferred payment details (optional). This information is vital for creating user accounts, managing orders, and facilitating personalised recommendations.

- **Customer History**
  The Customer History in the book store system includes details of past book purchases, genres preferred, and any reviews or ratings given by the customer. It helps in tailoring book recommendations and provides insights for marketing strategies.

- **Cart**
  The Cart in the book store system functions as the shopping cart, where users add books for purchase. Customers add books to their Cart for checkout. The system calculates the total cost, manages the cart contents, and facilitates a smooth checkout process. With the help of cart system, user will be able to purchase multiple books at same time.

- **Review and Ratings**
  Customers in the book store system can leave Reviews and Ratings for books. This user-generated content not only assists other readers in decision-making but also contributes to the overall sense of community and trust within the platform.

- **Authors**
  Authors are the creators of the books. In the book store system, The store gets the details of the authors with the help of APIs and stores their data in the DBMS.

- **Publisher:**
  Publishers are the companies that ease the process of publishing the book. In the book store system, The store gets the details of the publishers with the help of APIs and stores their data in the DBMS.

  This analogy helps in understanding the various components of an online book store system without reference to the healthcare system.

- **User Interaction:**
  In the envisioned online book store, user interaction is designed to be intuitive and user-friendly, fostering an engaging and satisfying experience for book enthusiasts. Upon entering the platform, users will be greeted with a visually appealing homepage featuring curated book selections, promotions, and personalised recommendations based on their preferences. Navigating through the extensive book catalogue is seamless, facilitated by user-friendly search and filtering options that enable users to explore books by genre, author, or specific keywords.

  Each book's detail page will provide a comprehensive overview, including a synopsis, author information, pricing details, and reader reviews. Users can add their preferred books to the shopping cart effortlessly, with the option to continue browsing or proceed to a secure and streamlined checkout process.

  To enhance user engagement, the platform will incorporate a personalised user account system. Registered users can easily log in to access their order history, manage preferences, and receive tailored book recommendations. The recommendation engine will play a key role in suggesting books based on the user's past purchases, browsing behaviour, and community trends, creating a dynamic and personalised browsing experience.

  Furthermore, the online book store will encourage community participation by allowing users to leave reviews and ratings for the books they have read. This user-generated content will not only assist other readers in their decision-making process but also contribute to the overall sense of community within the platform.

  In essence, the user interaction model is centred around providing a seamless, enjoyable, and personalised journey for each visitor, from the initial exploration of the book catalogue to the final checkout and beyond. The goal is to create an online book shopping experience that not only meets but exceeds the expectations of avid readers, fostering a sense of connection and satisfaction with the platform.

Chat-GPT Prompts:

- ## Prompt-1:
  THE GOI PLANS TO BUILD A DB FOR MANAGING THE INFORMATION ABOUT PROCUREMENT, DISTRIBUTION OF VACCINES AND BOOKING OF APPOINTMENTS IN HOSPITALS. THE DEPT PROCURES VACCINES FROM VARIOUS VENDORS AND THEN DISTRIBUTES THEM TO LOCAL HEALTH CENTERS FOR VACCINATIONS TO CITIZENS. A CITIZEN BOOKS AN APPOINTMENT IN A HOSPITAL FOR VACCINATION. A CITIZEN MAY CHOOSE THE VACCINATION TYPE (COVISHIELD/COVAXIN) AND WHETHER IT IS THEIR FIRST, SECOND OR BOOSTER SHOT [BASED ON THEIR VACCINATION STATUS] WHILE BOOKING AN APPOINTMENT IN A HOSPITAL. THE CITIZEN ALSO CHOOSES THE DATE, TIME SLOT AND A HOSPITAL (HID, HNAME, HLOCATION, LICENSE NUMBER) THEY WANT TO GET VACCINATED AT. WHILE BOOKING AN APPOINTMENT, A CITIZEN IS REQUIRED TO GIVE ALL PERSONAL INFORMATION INCLUDING AADHAAR NUMBER, NAME, DATE OF BIRTH, CITY, AND A PHONE NUMBER. IT MAY HAPPEN THAT SOME CITIZENS MAY NOT APPEAR ON THEIR SCHEDULED APPOINTMENT DATE/TIME. IN THIS CASE, THEY NEED TO REBOOK AND GET FRESH APPOINTMENTS. YOUR DATABASE DESIGN SHOULD REGISTER THE INFORMATION WHETHER A CITIZEN APPEARED AT THE SCHEDULED APPOINTMENT DATE/TIME, AND THE CURRENT VACCINATION STATUS OF A CITIZEN. THE SYSTEM CALCULATES THE AGE BASED ON DOB AND CATEGORIZES CITIZENS AS TEENAGERS, ADULTS AND SENIOR CITIZENS FOR ANALYSIS. ONLY DOUBLE VACCINATED PEOPLE IN THE THIRD CATEGORY CAN OPT FOR A BOOSTER SHOT WHILE THE TEENAGERS ARE NOT ELIGIBLE FOR VACCINATION. CITIZENS MAY BOOK VACCINATION APPOINTMENTS FOR MULTIPLE PEOPLE. SINCE THERE ARE A SUFFICIENT NUMBER OF VACCINES IN HOSPITALS, CMO WOULD LIKE TO GET THE STATUS OF VACCINE INVENTORY AND HOW MANY FOLKS ARE COVERED IN THEIR HEALTH CENTER EACH DAY. IF THE INVENTORY FALLS BELOW A CERTAIN THRESHOLD, THE CMO OFFICE WILL SEND A FRESH ORDER FOR THE NEXT SUPPLY. TO MAKE SURE A CITIZEN GETS AN APPOINTMENT, THE HEALTH CENTER CHECKS WHETHER APPOINTMENTS ARE AVAILABLE BEFORE BOOKING THE APPOINTMENT AND UPDATES THE DB ONCE THE CITIZEN GETS AN APPOINTMENT. VENDORS MUST REGISTER ON THE PORTAL TO SELL VACCINES TO THE GOI BY ENTERING DETAILS ABOUT THE VENDOR, THEIR ORGANISATION, DETAILS OF TYPE AND NUMBER OF VACCINES AVAILABLE FOR SALE, AND VACCINE PRICE QUOTATION. THEY MUST ALSO UPLOAD A DOCUMENT TO PROVE THAT THEY ARE AUTHORISED TO SELL VACCINES. THE GOI ADVERTISES FOR VENDORS VIA DIGITAL AND PRINT MEDIA.VACCINE REQUESTS BY HOSPITALS AND APPLICATIONS FROM VENDORS ARE APPROVED BY GOI OFFICIALS. THE COSTS OF VACCINES SOLD BY GOI TO HEALTH CENTRES AND BY HEALTH CENTRES TO THE CITIZENS ARE FIXED. HOWEVER, THE GOI MAY HAVE A MUTUAL NEGOTIATION WITH VENDORS FOR DIFFERENT BULK RATES. ALL

INFORMATION ABOUT THE SALE OF VACCINES TO HOSPITALS AND
PROCUREMENT OF VACCINES FROM
VENDORS IS STORED IN THE SYSTEM.
Read this para and write about the following points for a book store in accordance with the
above para:
Bookstore Manager
Books
Customer
Customer History
Cart
Review and Ratings

- ## Prompt-2:
  Remove the vaccination part in this para

Contribution:

Warade Atharv Abhijit (2022582): Brainstorming
Vaibhav Gupta (2022553): Brainstorming
Vidhan (2022568): Brainstorming
Stanzin (2022509): Brainstorming