DATA AND APPLICATIONS

LAB PROJECT

SHARING STORE

TEAM NAME - SURVIVING IIIT

TEAM MEMBERS -
1) VIPUL CHHABRA
2) ARCHIT GOYAL
3) AYAN BISWAS

SHARING STORE

Description:

The Sharing Store is an online book trading/exchanging system. It is designed to facilitate book lovers around the globe to read more! Now people can learn about fellow book lovers, the cities they are in and the books they have. Users need to register and create a profile. They have the option to fill in details such as City, Books they have for exchange, etc. In the current version, we have not included private profiles. The city and books up for the exchange of any user is public. The user's locality is stored to check eligibility of trade between two users. However, his/her address is private and not kept in the system. When a trade/exchange is confirmed, users involved discuss shipping or meet up addresses among themselves.

After the commencement of trade, both users provide the status of the trade. Status indicates whether trade is successful and if there were any problems. Common problems are, one party unable to show up, requesting a change in date or terms of the agreement and in some cases attempts to scam. The entire transaction is logged and stored for future reference. This includes everything from starting to end including status. Users can check their transaction histories if needed in the future. This helps maintain a log of the user's credibility.

Database Requirements :

1. Login Table:
    a. Username:
    b. Password(hashed)
2. User Details Tables:
    a. Username
    b. Name
        i. First Name
        ii. Last Name
    c. Email - Id
    d. Phone Number
    e. Locality
    f. City
3. Books Table
    a. Book Id
    b. Owner Id
    c. Book Name
    d. Year Of Publication/edition
    e. Author Name
    f. Status
    g. Genre
    h. Book Type (1-Printed Book / 2 - Audio Book)
    i. PB_Id(can Be Null)
    j. AB_Id(Can Be Null)
4. Audio Book
    a. AB_Id
    b. Size (in MBs/ GBs)
    c. Media type(USB/CD/ any other media)
5. Printed Book
    a. PB_Id
    b. Pages
    c. Cover type(HardCover/Paperback)

6. Transaction Table:
    a. Transaction Id
    b. Owner Id
    c. Requester Id
    d. Book ID
    e. Status of Transaction
7. Messages :
    a. Sender id
    b. Receiver Id
    c. Message
    d. Time and date
    e. Message-Id

Functional Requirements:

1) Users can register the system.

2) Users can log in and log out of the system.

3) Users can list their books for lending.

4) User can unlist the books.

5) Users can request books from others.

6) Users can chat with other users.

7) Users will be shown books based on their locality chosen.

8) Users can view their exchange history.

9) Users can search and filter books.

10) Users can update their profile.

11) Users can view the status of their requests.

12) User can generate the following reports
    a) Lending history report
    b) Request History Report
    c) All the transactions