Book Paradise

Course Code**:   CSE202**
Course Name**:   Fundamentals of Database Management System**

Work in progress Document

Team Name: db45

Team Members
- Dhruv Diwan: **2018031**
- Hardik Saini: **2018391**
- Ishan Sharma: **2018043**
- Nikhil Yadav: **2018298**
- Sonali Supriya: **2018318**

Project Overview:

We shall be building an online book depository platform, maintaining a primary focus on backend and database development. The platform shall be designed keeping in mind the following ***Stake Holders***:
1. Book Publisher
2. End-User / Reader
3. Company / Platform Manager
4. Book Stock Manager
5. Author*

The platform's Primary ***Objectives*** are:
1. Providing separate views for different stakeholders treating them as different types of "users" of the system
2. Enabling the publisher to upload and put up for sale new books.
3. Providing a bookwise track of the warehouse to the stock manager
4. Providing an online report/summary in a presentable manner to the platform company owner.

5. Allowing the end-user to buy/read books via the platform and search our depository using the "suggestion system" which shall allow search on basis of:
   - Genre
   - Other users' rating
   - Number of reads
   - Most recently read
   - Most recently released
6. Providing users incentive to read by putting a few redeeming coupons into their store wallet every time they make a purchase. These coupons can be used to obtain discounts on subsequent purchases.

Team Member's Contributions:

The work up to week 3 involved setting the project's goal, identifying stakeholders, identifying the tables (both entities and binding relations), and formulating them.

All this work was done in meetings that were scheduled such that all members participate and contribute equally to whatever gets finalized since this phase shall serve as the base for our project for the next 9 weeks.

Hence, all the members contributed equally to this ideation/formulation phase. The application development work in the subsequent weeks shall be divided so as to accumulate individual contributions to the project and take it forward.
Hence, all the members contributed equally to all aspects.

The individual contribution of each team member in the subsequent weeks is as mentioned below:

Hardik: Layed down the DDL of the database, backend
Nikhil: E-R Diagram, frontend
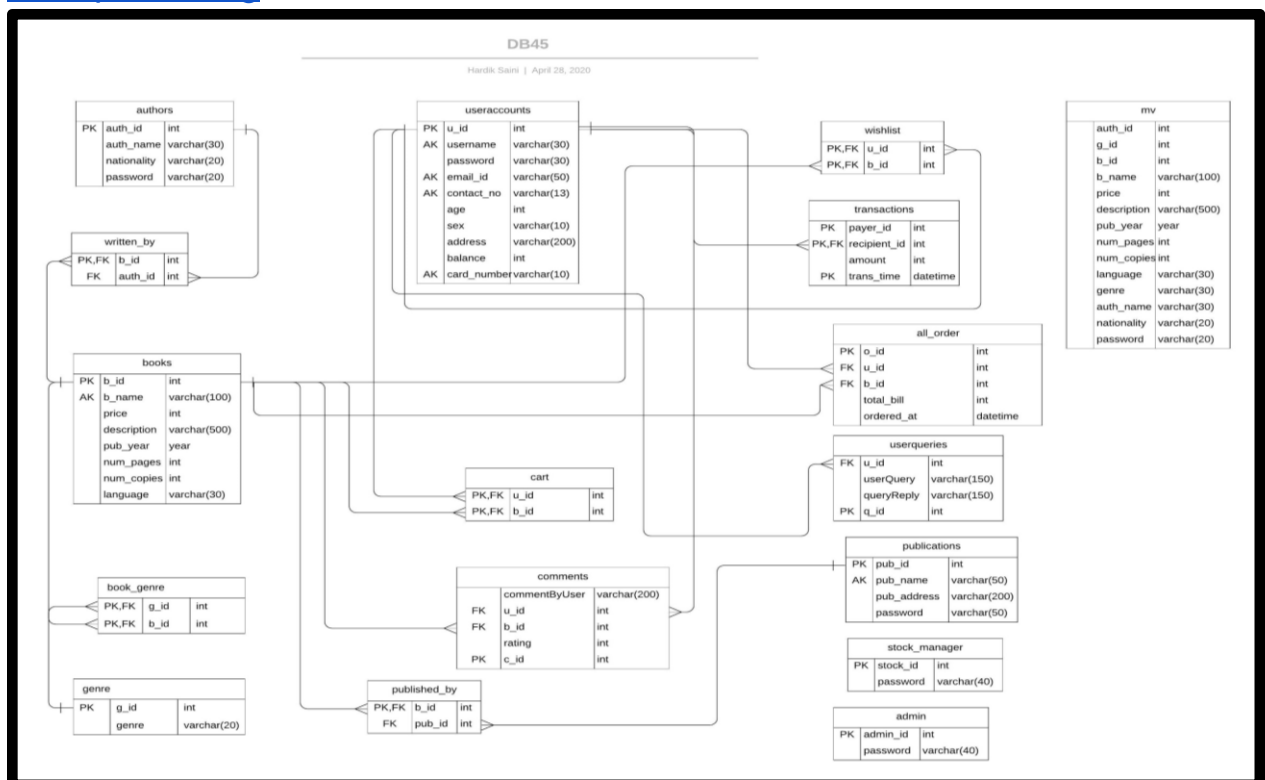**Ishan:** Populated database as and when needed
Dhruv: Backend, Linking backend to frontend
Sonali: Frontend

In addition to this, every decision regarding the functionalities of the app is done after rigorous deliberation where each member contributed equally.

ER Model/Schema

https://drive.google.com/file/d/1k09HXmjKZrS7lT4e1AmWkFEfusr6NI7b/view?usp=sharing

Weekly Work logs

Week 1	Identified app domain, stakeholders Search For Resources and Look for Real-time Systems (Like Good Reads)
Week 2	Identified stakeholders, Look for All types for a platform that can be used to practically implement our idea.
Week 3	Identified tables and binding relations, Draw Relational Schema, Create a dummy database on MySQL, dump all relation in it, Finalized Framework on which to implement our application (JavaFx: as all of us have used it in AP so we had reasonable background knowledge)
Week 4	Populated database, Started Collecting Resources & Reading Materials for Best Suitable technology Like IDE's, Libraries, Non-Turing Langauge (MYSQL) , Java MailX
Week 5	Final Libraries Chosen: JavaFx 2.0, SceneBuilder, JFoenix, FontAwesome, Java 8, IntelliJ IDEA, MySQL, Workbench, DB-Connector, Modified Database for new Functionalities Created A Login Screen Frontend, Backend, Created Forgot Password Screen frontend Backend, Create Account Screen frontend Backend
Week 6	Learned New Concept: Normalisation Modified Database For Normalisation Resolved Bugs Home Screen After Successful Login GUI Backend Loading Books into Table Searching For Books Assigning Function to All Buttons
Week 7	Created Local Session For User Created Logging Out from local Session
Week 8	GUI Handler's Bugs Fixed: Dhruv GUI Frontend Changed: Dhruv

	Added HomeTable Class: Hardik Corrected Home Page Main Table: Hardik
Week 9	My Wallet Frontend My Wallet BackEnd Minor Bugs and incorrect Fonts My Account FrontEnd My Account BackEnd Updation Consistency Session Consistency
Week 10	Removal Of Some Attributes In Database Removal of Some Tables Addition of Some Tables in Database Addition of More Constraints In Database Addition Of ConStraints Creation of Index My Wallet Frontend Working and Changes WRT Database My Wallet BackEnd Working and Changes WRT Database Book Buying Frontend Mechanism Book Buying Backend Mechanism Anomalies Management Cascade Changes in Buying in Backend Management Minor Bug Fixes
Week 11	Show Password Correction UserQuery Front End (A.K.A Help Section) UserQuery BackEnd: Hardik Correction of UserAccount Creation Addition of Sex, Age, Address Field BackEnd Of Creation of Account WRT change Generation and Automatic Addition of Card number to User (10 digits)

Week 12	Created Publication table, published_by Populated the table Added constraints, keys Created publisher view Created publisher login Created a section for adding publisher's books Wrote the backend for publisher working, adding books
Week 13	Created Author table, written_by table Table population, keys , constraints Author info view Author chart view Author login view
Week 14	Added Stock guy table Reworked company owner table Password encryption