

# DATABASE MANAGEMENT SYSTEMS

## COURSE PROJECT PROPOSAL

---

### **Group Members :**

1. Divyanshu Talwar ( 2015028 )
2. Shashwat Malik ( 2015092 )

### **Project Description :**

- **Objective**

- To design a database application for an Online Book Store.

- **Features : The features of the Java application**

- Data updation regarding placement or cancellation of a new order / registration of a new customer / addition or deletion of a new book to the stocks.
- The application lists all the books :
  - having a particular keyphrase entered by the user.
  - Written or published by ABC (entered by the user).
  - Belonging to a specific genre.
  - in a particular price range.
- Stock summary.
- Tells the user on request if for the order :
  - The number of books requested are in stock or not.
  - Inter-state shipping charges are applicable or not.
- The application lists the following :
  - Best Sellers ( Overall / Region-wise ).
  - Most popular authors / publishers.
- Lists the total number of registered customers.

---

- **Queries : The application would cater to the following user queries**

- Total number of customers registered.
- List names of best sellers.
- Books with quantity more than X in stock.
- Number of customers who bought a particular book.
- List all books whose price lies in a particular price range.
- List the most popular authors / publishers.
- Find a particular book by its name / keyphrase.
- Check if inter-state shipping charges are applicable or not?( Are the all the warehouses having the requested book and the customer in different cities. )

- **Some Complex Queries:**

- Find all books written by an author ABC or a set of authors.
- Find all books published by a publisher ABC or a set of publishers.
- List names of all customers who bought all the books written by ABC.
- List names of all customers who bought all the books published by ABC.
- List books for a selected genre or a set of genres.
- List the names of books not in stock / stock summary.
- List the region-wise best sellers.