DATABASE MANAGEMENT SYSTEMS

LAB

ETCS-256

**MINI-PROJECT REPORT**

**Submitted By:**

Pankaj Gupta 01314802719

Gaurav Chhapliyal 01514802719

Rohan Singhal 02214802719

Dakshay Sachdeva 03214802719

**Faculty Name:**

Dr. Namita Gupta



**Maharaja Agrasen Institute of Technology**

PSP Area, Sector – 22, Rohini, New Delhi – 110085

**PROJECT REPORT**

**Title: FindMyBook**

**Source Code:** [**https://github.com/CoderGaurav01/FindMyBook**](https://github.com/CoderGaurav01/FindMyBook)

**Website Link:** [**https://findmyb00k.000webhostapp.com/**](https://findmyb00k.000webhostapp.com/)

* IDEA:

To create an online platform to help college student re-use books. Student in a college can buy a second hand book from another student. Students can upload their details and details of the books they have. Students that require the book can search for the books they need and if they find the desired results they can contact the seller and buy that book.

* PROBLEM STATEMENT:
* Website can have many users.
* Each User can sell many books.
* A buyer can search for the required book on the basis of author, book name, semester and subject.
* Buyer can then contact the book seller.

**Steps Followed to Create the Database**

* Entities:
* Books:

- id -> primary key

- Name

- Price

- Author

- Edition

- Subject

- Semester

- user\_id -> foreign key user(id)

* User:

- id ->primary key

- Name

- Email

- Contact

- Address

- Password

Relationships:

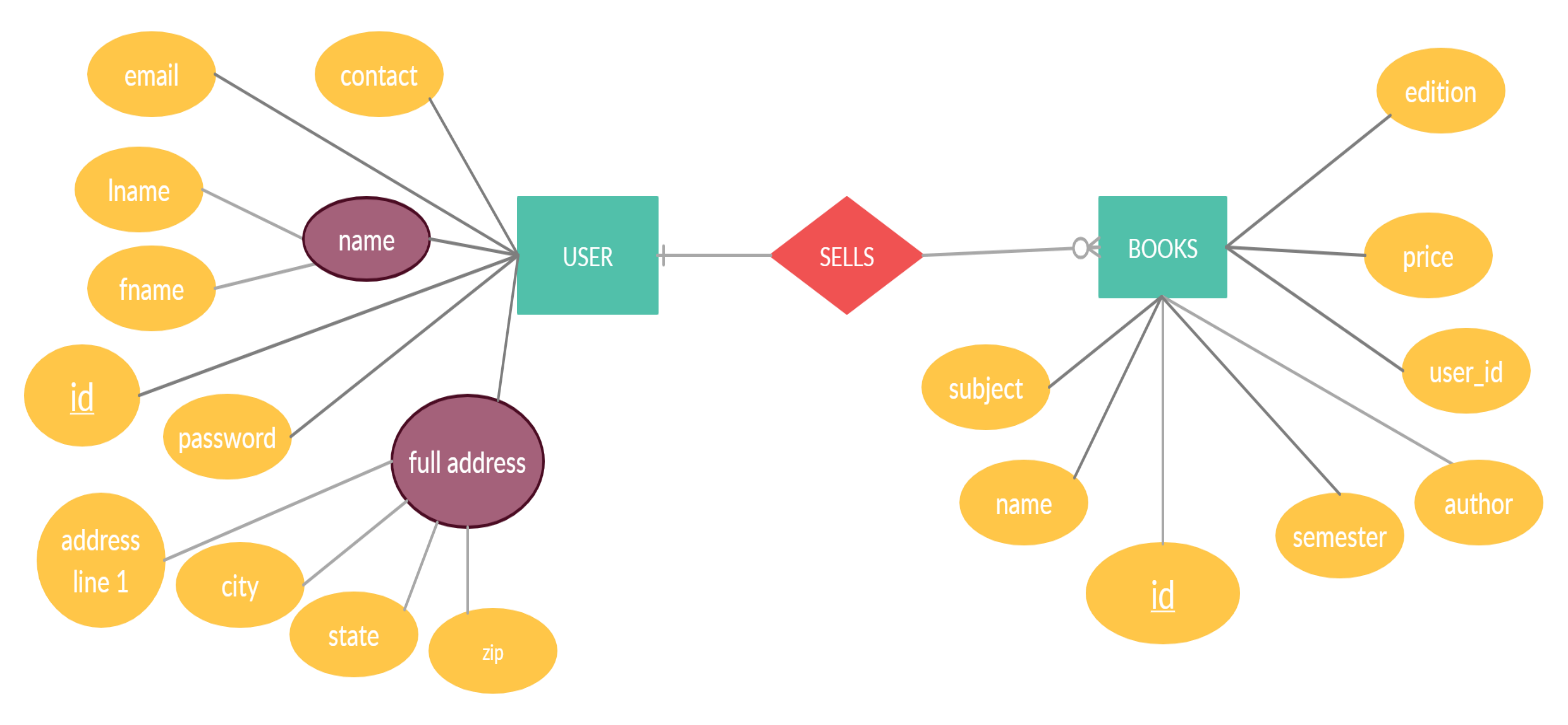
* + - Sells:
* Binary (1:N Cardinality), Partial participation

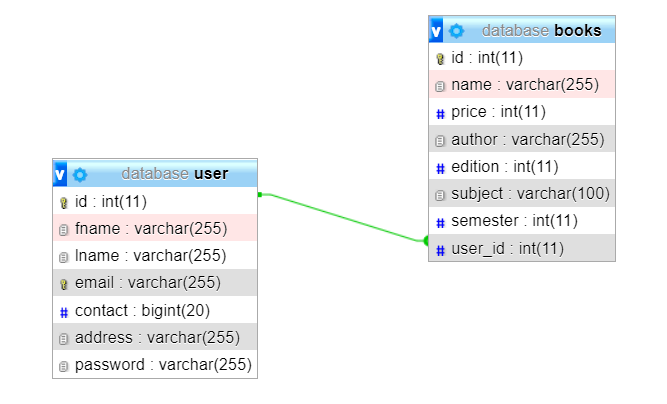
- books (id, user\_id)

- user (id)

* user\_id (books) Foreign Key id (user) ON DELETE CASCADE ON UPDATE NO ACTION

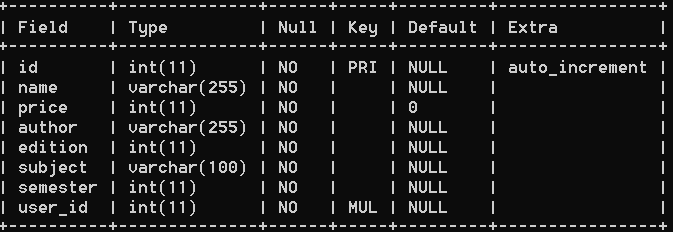
**ENTITY RELATIONSHIP DIAGRAM:**



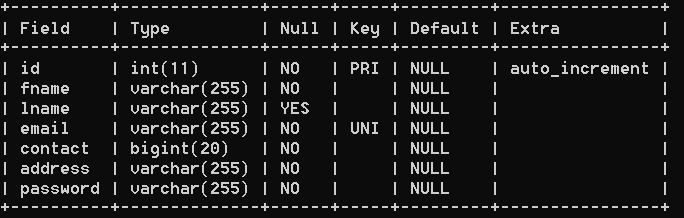


**ER TO RELATIONAL SCHEMA:**

* books (id, name, price, author, edition, subject, semester, user\_id)



* user (id, fname, lname, email, contact, address, password)



**SQL QUERIES USED**

CREATE TABLE books ( id int(11) NOT NULL AUTO\_INCREMENT, name varchar(255) NOT NULL, price int(11) NOT NULL DEFAULT '0', author varchar(255) NOT NULL, edition int(11) NOT NULL, subject varchar(100) NOT NULL, semester int(11) NOT NULL, user\_id int(11) NOT NULL, PRIMARY KEY (id), KEY FOREIGN KEY (user\_id) )

CREATE TABLE user ( id int(11) NOT NULL AUTO\_INCREMENT, fname varchar(255) NOT NULL, lname varchar(255) DEFAULT NULL, email varchar(255) NOT NULL, contact bigint(20) NOT NULL, address varchar(255) NOT NULL, password varchar(255) NOT NULL, PRIMARY KEY (id), UNIQUE KEY email (email) )

ALTER TABLE books ADD CONSTRAINT FOREIGN KEY FOREIGN KEY (user\_id) REFERENCES user (id) ON DELETE CASCADE ON UPDATE NO ACTION

**SERVICES/STACK USED**

* **HTML**
* **CSS**
* **BOOTSTRAP**
* **JAVASCRIPT**
* **PHP**
* **MYSQL**
* **WAMP SERVER**
* **GIT & GITHUB**
* **000webhost.com (for hosting website)**