1.User database

**DATABASE::: 1:::**

When user will register themselves:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User ID | User Name | E-mail | Password | Mobile No | Room No |
| 1 | Pritam Singh | pkspritam10@gmail.com | .#$%#@ | 9119216041 | A-226 |
| 2 | Tanmay |  | ^&^$%#@!#% | ----------------- | ----------- |
| 3 | Utsav Manjhi | -------------------------------- | -------------------- | ------------------- | -------------- |
| . |  |  |  |  |  |

REGISTRATION

NAME:

E-mail ID :

Password:

Mobile No:

Room No:

Whenever someone open registration page one row will be locked in user database

2.Book details database:

When user add any new book to network.

link of image + book number (given by us) eg

“Book no.”+(space)+”pointer”

Using above line make QR-code

Eg 00001 <link>

Front page

Output :

Book ID

User ID

QR-code

Genres

Author (from net)

Book name(from net)

Bar Code

07/04/209 8:42

PRITAM SINGH

Timestamp

Decrease

The File sizes

NEXT>>>>>>

Genres

Comic

Novel

Business

Image Front page of book

Bar code

Store the image

On google drive or on local computer

**DATABASE :::2:::**

Book details immutable

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Book ID | QR-code | Book Name | Author | Genres | User-ID(linked to user database) |
| 00001 | |||||||||||| | Rich dad Poor dad | Robert Kawasaki | Business | 1 |
|  |  |  |  |  |  |

**Explanation of above databases:**

**About Database 1:**

It is registration database

Sign up >> user provide his/her details as mentioned in the registration page >> we get **database 1.**

Ever user will get an unique user ID (in loop).

**About database 2:**

This is immutable database about book and owner of the book.

Steps involved :

1.On “Add book page” user will give( bar code + front page picture+ genres ) of book .

2.firstly we will decrease size of bar code and front page.

3.we will produce A timestamp using above picture.

4.save the timestamped picture on google drive or local drive and get LINK of this picture.

5.produce QR-code from book ID (book number from loop) + LINK of picture .

6.from above details database 2 will developed containing Book ID + QR-code+Book Name (from Net)+Author (from Net)+Genres + User ID (linked to user database )

**DATABASE :::3:::**

He will only have QR-code of book

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Book-ID** | **User-ID(at present who is having that book)** | | | | | | | | |
| **00001** | **1** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

**About database 3:**

Database 3 will create at same time when user add any book (with book Id and user ID)

First user column is for owner.

**How transaction of book will take place :**

Let say user 1 have book 00001 and user 2 wants it :

User 1 will open book 00001 QR-code >> user 2 will can the QR and read the book ID >> the user 2 mobile will search for book 00001 in book column in database 3>>

When he finds it then loop over column will get active which will search for NULL column then user 2 id will enter that column.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Book-ID** | **User-ID(at present who is having that book)** | | | | | | | | |
| **00001** | **1** | **2** |  |  |  |  |  |  |  |
|  | **He will only have QR-code of book** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |