DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIXTH SEMESTER B. E. [SHIFT II] DATABASE MANAGEMENT SYSTEMS [CST321] ACADEMIC YEAR 2019-2020

PARAMETER-2 [GROUP ASSIGNMENT]

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Group No: 1 Code: P222

Group Members: Antara Karankar-01

Bhavana Komanduri-02 Maithreyi Pagar-06

DESCRIPTION OF THE PROBLEM

This project is created using relational database. The project was developed using MYSQL, Wamp Server, CSS, HTML and PHP.

The database was developed with following concepts :

Users can be identified by their username and password. Other information stored for a user includes First Name, Last Name, Email-Id. and Balance.

Each user can take a book based on the balance he/she has in his/her account and availability of the book.

The user may choose book from any of the available categories as fiction , non-fiction and education.

There are various functionalities of the librarian section, namely pending registration, pending book request ,adding a new book , update copies of the book , update balance of a member etc.

Each book has a name(title), author ,category ,price and number of copies.

Each user can issue multiple books of various or same author.

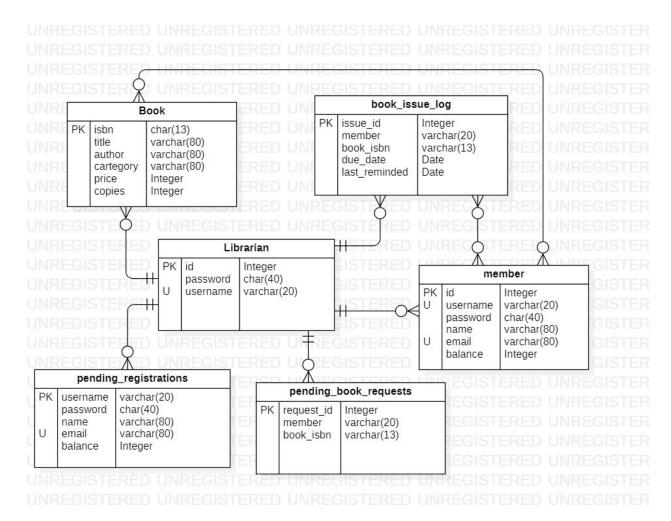
Books to be returned are recorded and updated accordingly.

E-R MODEL

Brief on Selection of Entities, Attributes and Relationships:

No.	Table Name	Attributes	Relationships	Description
1	Librarian	idpassworduserame	 book:One to Many Relationship book_issue_log: One to Many Relationship member: One to Many Relationship pending_book_requests: One to Many Relationship pending_registrations: One to Many Relationship 	id is the PRIMARY KEY. username is UNIQUE attribute.
2	book	isbntitleauthorcategorypricecopies	 member: Many to Many Relationship librarian:Many to one Relationship 	isbn is the PK.
3	book_issue_log	Issue_idmemberbook_isbndue_datelast_reminded	 Member: Many to Many Relationship Librarian: Many to One Relationship 	Issue_id is PK.
4	member	idusernamepasswordnameemailbalance	 Book: Many to Many Relationship. Book_issue_log: Many to Many Relationship. Librarian: Many to One Relationship. 	id is PRIMARY KEY. Username and email are UNIQUE.
5	Pending_book_requests	request_idmemberbook_isbn	Librarian: Many to Many Relationship	request_id is PRIMARY KEY.
6	Pending_registrations	usernamepasswordnameemailbalance	Librarian: One to Many Relationship	Review_id is PK. User_id, Restaurant_id are FK.

ER Model:



DATABASE DESIGN & REPORTS

Table Book

```
CREATE TABLE `book` (
  `isbn` char(13) NOT NULL,
  `title` varchar(80) NOT NULL,
  `author` varchar(80) NOT NULL,
  `category` varchar(80) NOT NULL,
  `price` int(4) UNSIGNED NOT NULL,
  `copies` int(10) UNSIGNED NOT NULL);
```

_									
#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	
1	isbn 🔑	char(13)	latin1_swedish_ci		No	None			
2	title	varchar(80)	latin1_swedish_ci		No	None			
3	author	varchar(80)	latin1_swedish_ci		No	None			
4	category	varchar(80)	latin1_swedish_ci		No	None			
5	price	int(4)		UNSIGNED	No	None			
6	copies	int(10)		UNSIGNED	No	None			

Table book_issue_log

```
CREATE TABLE `book_issue_log` (
   `issue_id` int(11) NOT NULL,
   `member` varchar(20) NOT NULL,
   `book_isbn` varchar(13) NOT NULL,
   `due_date` date NOT NULL,
   `last_reminded` date DEFAULT NULL
}.
```

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	issue_id 🔑	int(11)			No	None		AUTO_INCREMENT
2	member	varchar(20)	latin1_swedish_ci		No	None		
3	book_isbn	varchar(13)	latin1_swedish_ci		No	None		
4	due_date	date			No	None		
5	last_reminded	date			Yes	NULL		

Table librarian

```
CREATE TABLE `librarian` (
  `id` int(11) NOT NULL,
  `username` varchar(20) NOT NULL,
  `password` char(40) NOT NULL
);
```

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id 🔑	int(11)			No	None		AUTO_INCREMENT
2	username 🔊	varchar(20)	latin1_swedish_ci		No	None		
3	password	char(40)	latin1_swedish_ci		No	None		

Table Member

```
CREATE TABLE `member` (
   `id` int(11) NOT NULL,
   `username` varchar(20) NOT NULL,
   `password` char(40) NOT NULL,
   `name` varchar(80) NOT NULL,
   `email` varchar(80) NOT NULL,
   `balance` int(4) NOT NULL
)
```

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	id 🔑	int(11)			No	None		AUTO_INCREMENT
2	username 🔎	varchar(20)	latin1_swedish_ci		No	None		
3	password	char(40)	latin1_swedish_ci		No	None		
4	name	varchar(80)	latin1_swedish_ci		No	None		
5	email 🔊	varchar(80)	latin1_swedish_ci		No	None		
6	balance	int(4)			No	None		

Table pending_book_requests

```
CREATE TABLE `pending_book_requests` (
  `request_id` int(11) NOT NULL,
  `member` varchar(20) NOT NULL,
  `book_isbn` varchar(13) NOT NULL
);
```

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	request_id 🔑	int(11)			No	None		AUTO_INCREMENT
2	member	varchar(20)	latin1_swedish_ci		No	None		
3	book_isbn	varchar(13)	latin1_swedish_ci		No	None		

Table pending_registrations

```
CREATE TABLE `pending_registrations` (
`username` varchar(20) NOT NULL,
`password` char(40) NOT NULL,
`name` varchar(80) NOT NULL,
`email` varchar(80) NOT NULL,
`balance` int(4) NOT NULL
```

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra
1	username 🔑	varchar(20)	latin1_swedish_ci		No	None		
2	password	char(40)	latin1_swedish_ci		No	None		
3	name	varchar(80)	latin1_swedish_ci		No	None		
4	email 🔊	varchar(80)	latin1_swedish_ci		No	None		
5	balance	int(4)			No	None		

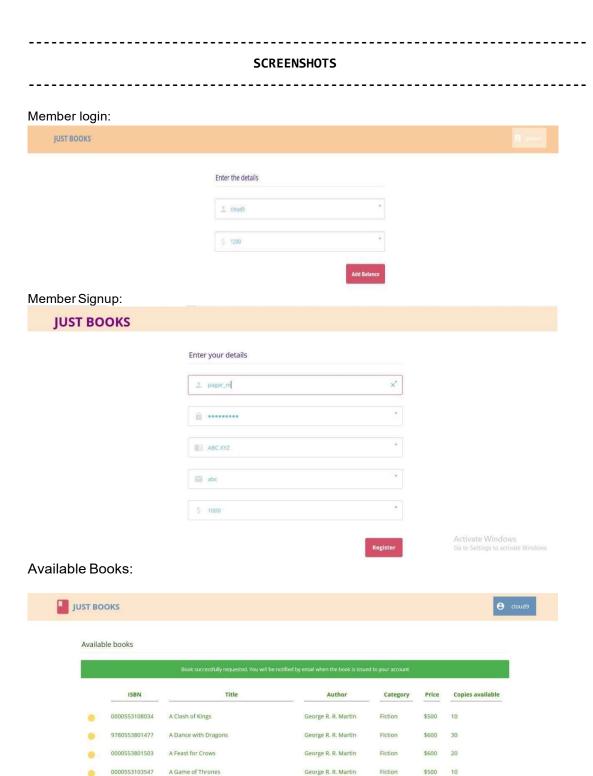
Desc queries and Select queries: mysql> desc book; Field | Null | Key | Default | Extra Type isbn char(13) NO PRI NULL varchar(80) title NO NULL varchar(80) author NO NULL varchar(80) NO NULL category int(4) unsigned NO price NULL copies int(10) unsigned | NO NULL rows in set (0.00 sec) mysql> desc book_issue_log; Field | Null | Key | Default | Type issue_id int(11) NO PRI NULL auto_increment varchar(20) member NO NULL varchar(13) book isbn NO NULL due date date NO NULL last_reminded | date YES NULL 5 rows in set (0.00 sec) mysql> desc librarian; Field Type | Null | Key | Default | Extra id int(11) NO PRI NULL auto_increment varchar(20) UNI NULL username NO password | char(40) NULL NO 3 rows in set (0.00 sec) mysql> desc member; | Null | Key | Default | Field Extra Type id int(11) NO PRI NULL auto_increment varchar(20) UNI username NO NULL password char(40) NULL NO name varchar(80) NO NULL NULL email varchar(80) NO UNI balance int(4) NO NULL

rows in set (0.00 sec)

mysql> desc pending_book_requests; Null | Key | Default | Extra Field Type request_id | int(11) NO PRI NULL auto_increment member varchar(20) NO NULL book_isbn varchar(13) NO NULL rows in set (0.00 sec) mysql> desc pending_registrations; Field Type Null | Key | Default | Extra username varchar(20) NO PRI NULL char(40) NO NULL password name varchar(80) NO NULL email varchar(80) NO UNI | NULL balance int(4) NO NULL rows in set (0.00 sec) mysql> select * from book; isbn title author | price | copies category 0000545010225 Let Us C Yashavant Kanetkar Education 200 30 Computer Graphics David F. Rogers Education 500 0000553103547 10 0000553106635 AbRaham Silberschatz Education 300 15 Operating System 0000553108034 SQL: The Ultimate Beginners Guide Steve Tale Education 500 10 0000553801503 Advanced Data Structures Peter Brass Education 260 20 Good to Great Jim Collins Non-fiction 300 9780066620992 10 9780241257555 The Pigeon Tunnel John le CarrÃ0 Non-fiction 200 25 Suzanne Collins 9780439023511 Mockingjay Fiction 500 20 9780439023528 The Hunger Games Suzanne Collins Fiction 400 10 9780545227247 Catching Fire Suzanne Collins Fiction 400 14 9780553801477 A Dance with Dragons George R. R. Martin Fiction 600 30 9780967752808 Sandbox Wisdom Tom Asacker Non-fiction 250 9781501141515 | Born to Run Bruce Springsteen Non-fiction 250 20

13 rows in set (0.00 sec)

```
iysql> select * from librarian;
 id | username | password
               93c768d0152f72bc8d5e782c0b585acc35fb0442
 row in set (0.00 sec)
mysql> select * from member;
                                                                       email
                                                                                            balance
  1 Antara
                b98fbe39588d5a282fe4ceec4c1404750d68cc2c
                                                     Antara Karankar
                                                                       karankaram@rknec.edu
                                                                                               1000
                1125ef0a292ec9a49356fd8461697eb4e9d9bbe4 | Bhavana Komanduri
                                                                       komanduribr@rknec.edu
  2 Bhavana
                                                                                               1200
  3 | Maitrayee | 00f7ea9d1983928888f2e966674c6611e6980996 | Maithreyi Pagar
                                                                       pagarmn@rknec.edu
                                                                                               1000
 rows in set (0.00 sec)
mysql> select * from pending_book_requests;
 request_id | member
                     book_isbn
         1 Bhavana
                       9780553801477
         2 | Maitrayee | 0000545010225
 rows in set (0.00 sec)
mysql> select * from pending_registrations;
 username password
                                               name
                                                          email
                                                                          balance
           d22477479bbf55ba62bd822f4112c80f292c780 | Madhurima | madhu@gmail.com |
 row in set (0.00 sec)
mysql> select * from book_issue_log;
  issue_id | member | book_isbn
                                                      due_date
                                                                          last_reminded
                 Bhavana | 9781501141515
                                                        2020-03-17
                                                                           NULL
                               9780545227247
                                                        2020-03-17
                                                                           NULL
                  Anatra
  rows in set (0.00 sec)
```



George R. R. Martin

Bruce Springsteen

Suzanne Collins

Mahesh Mali

\$550

\$60

\$250

\$400 14

zoctivate Windows

Fiction

Education

Non-fiction

Fiction

A Storm of Swords

Catching Fire

Advanced Database Management Systems

0000553106635

9789350777077

9781501141515

9780545227247

Admin/Librarian Login: JUST BOOKS Librarian Login genesis ×

Activate Windows
Go to Settings to activate Window

Admin:



Pending book request

