Surabhi Ojha
CSE - E
201601246
Rajalakshmi Engineering College

Class Representation Of Library Management System

```
class book{

String bookid ;
String bookName;
String department ;
float cost ;
String publisher ;
String author ;
int bookStatus;
int publisherPno ;
String publisherAddress ;

book(){
//Constructor
}

book(arguments.....){
//Constructor with argument
}

void  getBookData(){
//get data for the book
}
```

```
void  insertBookDataInDataBase(){
//database entry
}
void updateBookStatus(String bookid){
//update book status in dataBase
}
}
```

```
class  user{

int  userid;
String name;
int  pno;
String email;
String address;
int noOfBookHolding;
int accountStatus;

user(){
//Constructor
}

user(arguments.....){
//Constructor with argument
}

void  getUserData(){
//get data for the user
}

void  insertUserDataInDataBase(){
//database entry
```

```
}

void updateUserStatus(int userid){
//update Account Status in dataBase
}



int checkNoOfBookHolding(int userid){
//check NoOfBookHolding in dataBase and return the count
}


void updateNoOfBookHolding(int userid){
//update NoOfBookHolding in dataBase
}

}

class bookIssue{
String bookid ;
int userid ;
String borrowDate;
String scheduledReturnDate;
String actualReturnDate;
int fine;
int bookIssueStatus ;

bookIssue(arguments.....){
//Constructor with argument
}
```

```
void  getBookIssueData(){
//get data for the book issue
}

void  insertBookIssueDataInDataBase(){
//database entry
}

void updateBookIssueStatus(int userid, String bookid){
//update BookIssueStatus in dataBase
}

int calculateFine(int userid, String bookid){
//calculate fine and return it
}

void updateActualReturnDate(int userid, String bookid){
//update NoOfBookHolding in dataBase
}

void updateFine(int userid, String bookid){
//update Fine in dataBase
}
}
```

```
class  bookLostOrDamagedOrSold{
String bookid;
int userid;
int bookLostDamagedSold;
int finePrice;
```

```
bookLostOrDamagedOrSold(arguments.....){
//Constructor with argument
}

int calculateFine(int userid, String bookid){
//calculate fine and return it
}

void updateBookLostDamagedSold(int userid, String bookid){
//update NoOfBookHolding in dataBase
}

void updateFine(int userid, String bookid){
//update Fine in dataBase
}
}
```

```
class bookManage{

public static void main(String[] args) {

//create classes objects call their methods using user request

//display options to choose

}

}
```