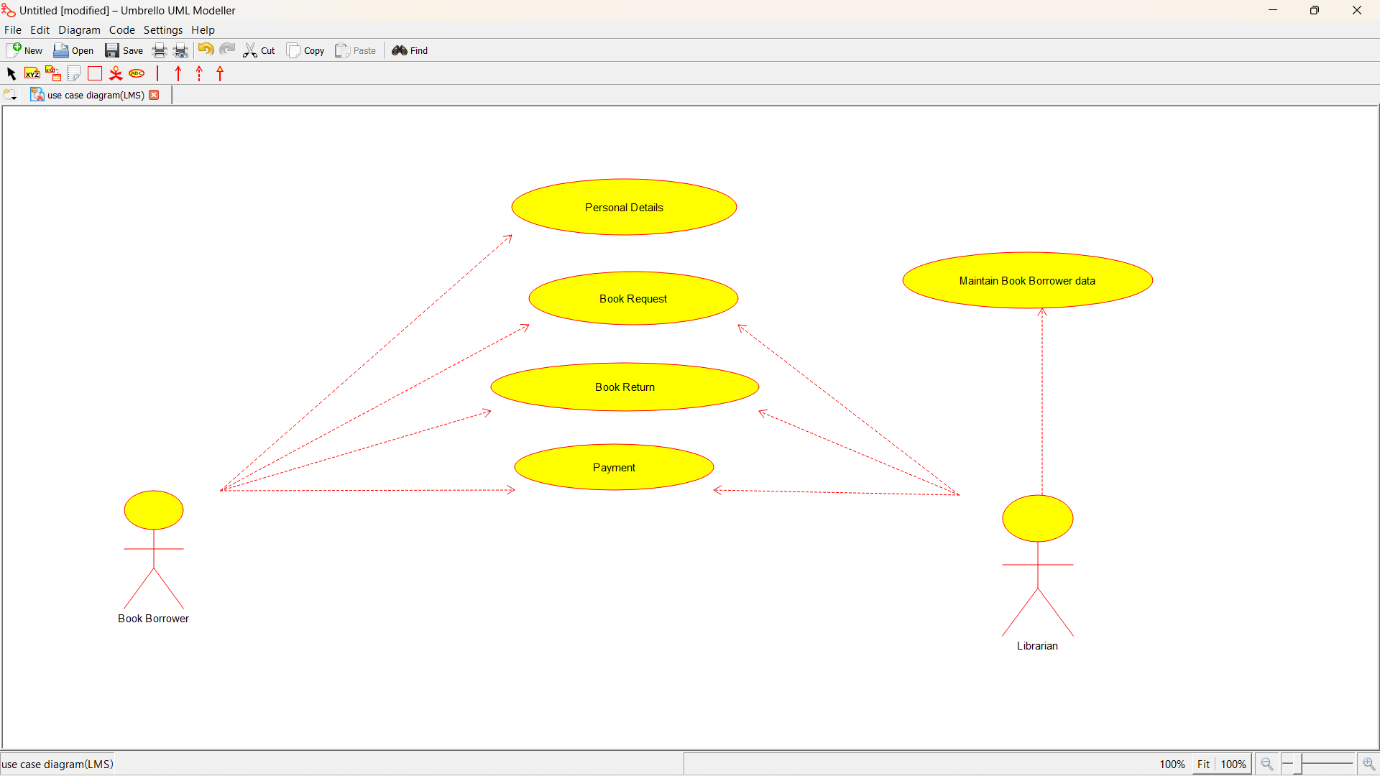
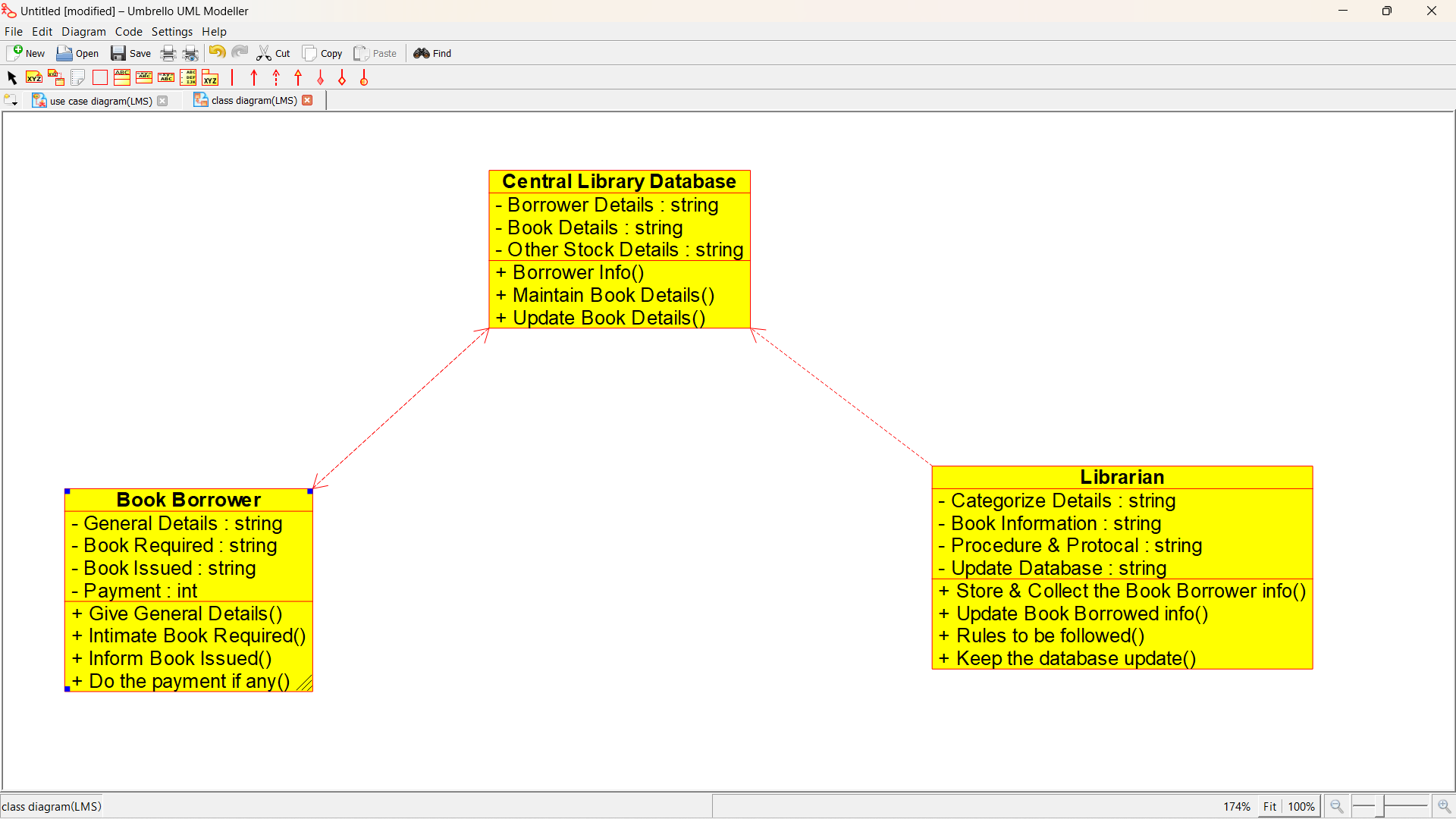
**20.LIBRARY MANAGEMENT SYSTEM**

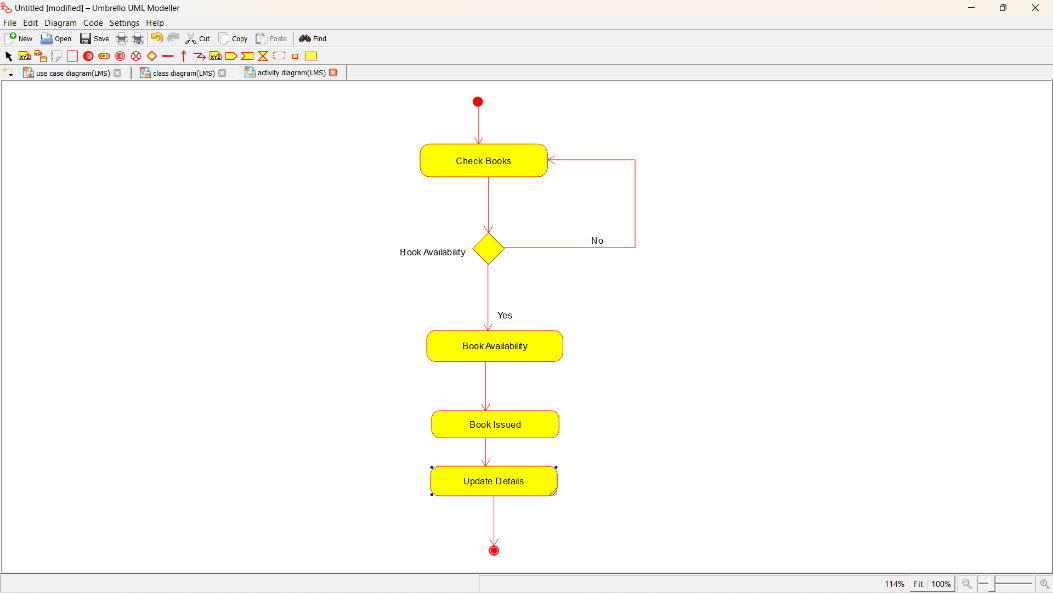
USE CASE DIAGRAM:



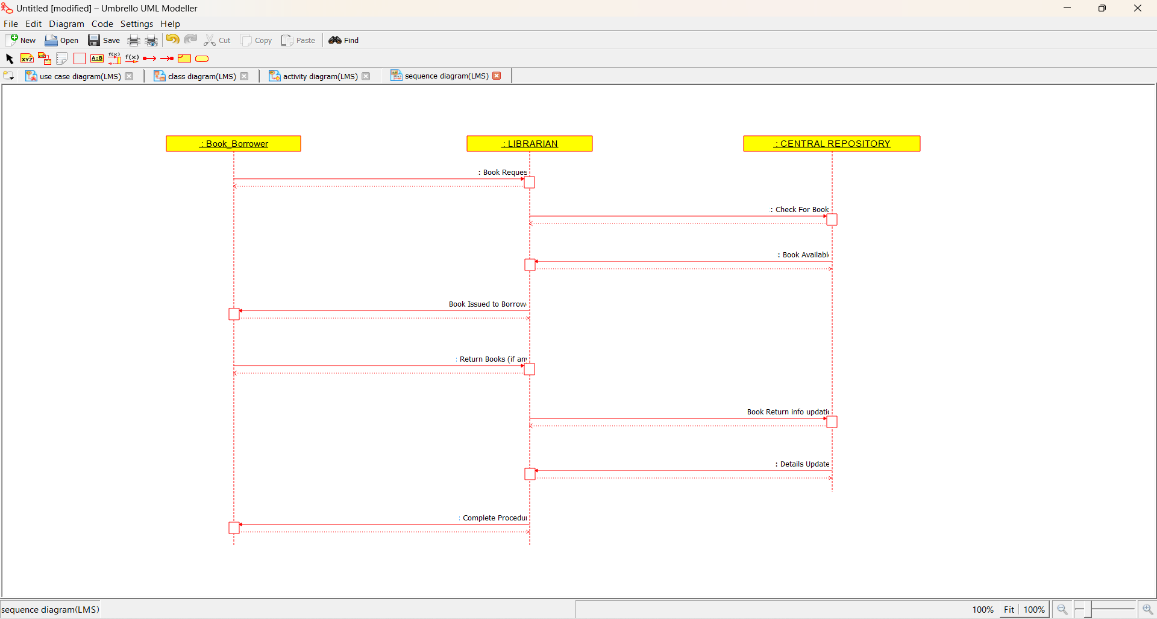
CLASS DIAGRAM:



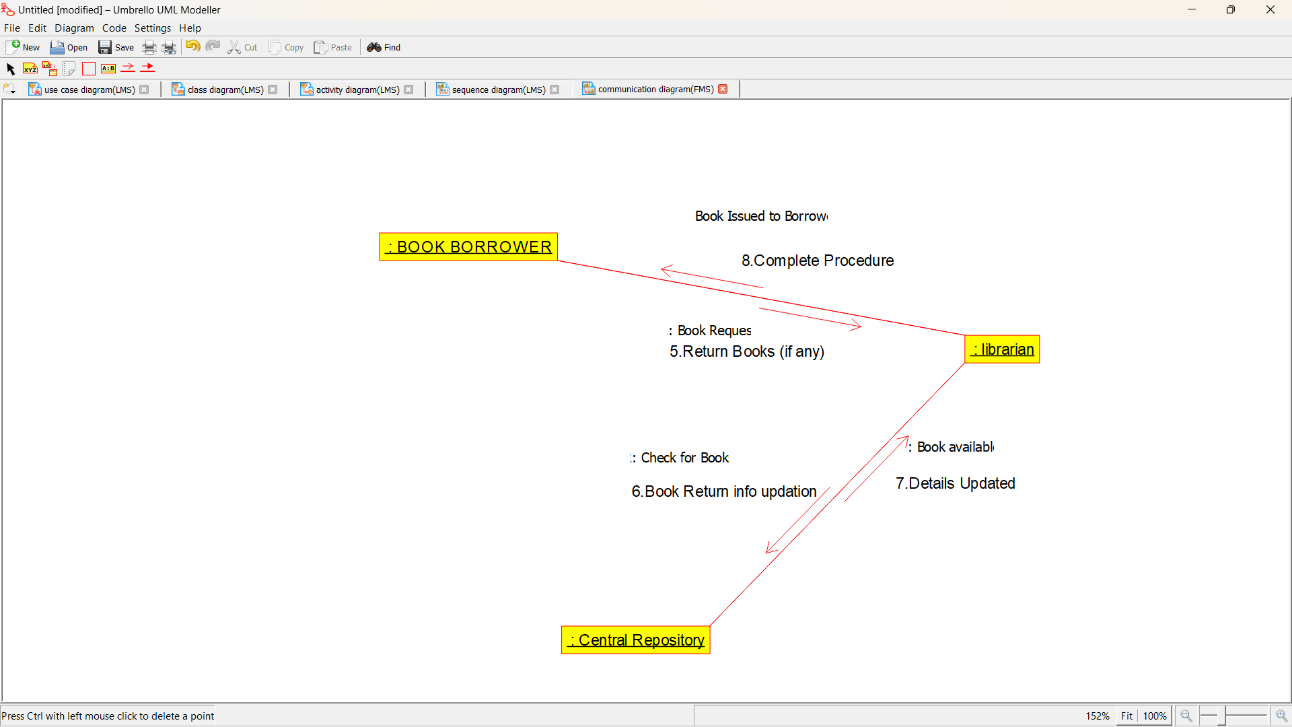
ACTIVITY DIAGRAM:



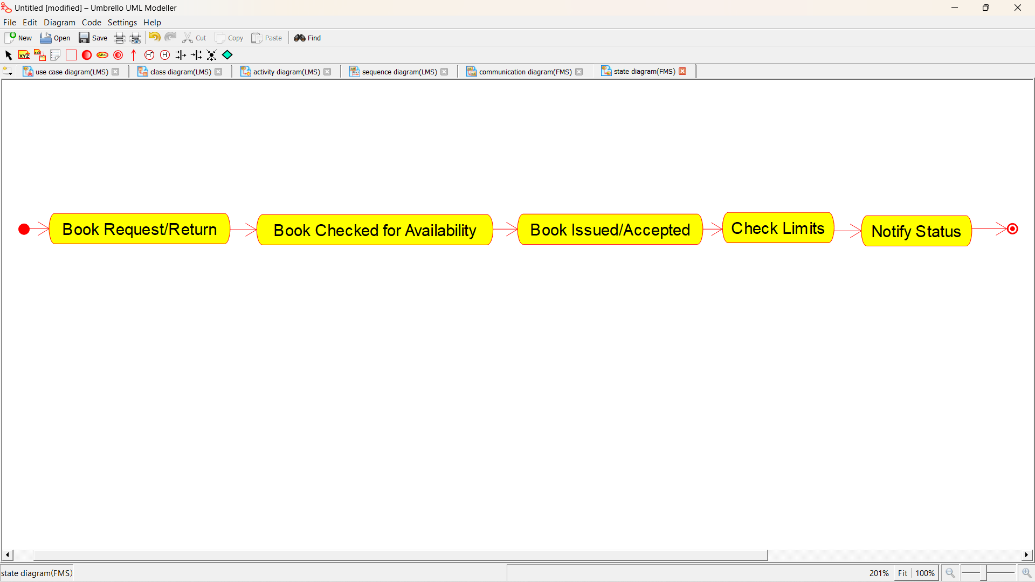
SEQUENCE DIAGRAM:



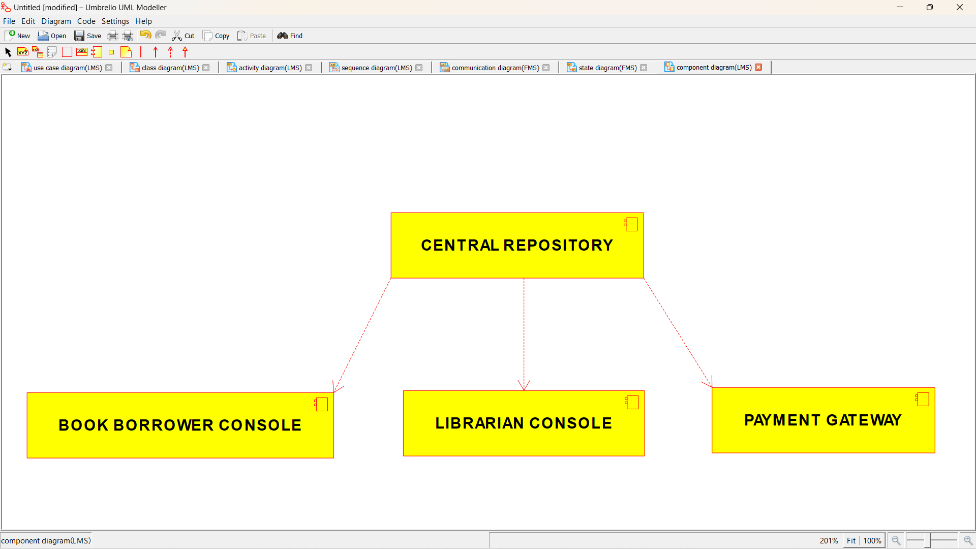
COLLABORATION DIAGRAM:



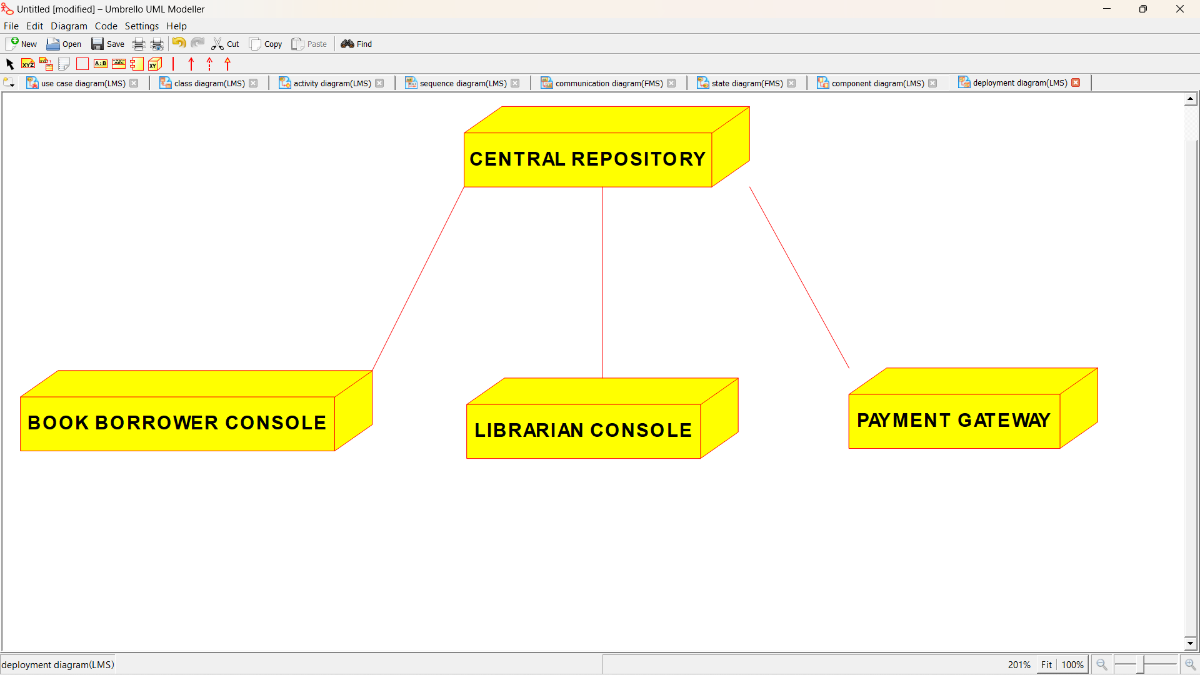
STATE CHART DIAGRAM:



COMPOMEMT DIAGRAM:



DEPLOYMENT DIAGRAM:



***PROGRAM CODING:***

**/\*\***

**\* Class Central\_Library\_Database**

**\*/**

**public class Central\_Library\_Database {**

**//**

**// Fields**

**//**

**private String Borrower\_Details;**

**private String Book\_Details;**

**private String Other\_Stock\_Details;**

**//**

**// Constructors**

**//**

**public Central\_Library\_Database () { };**

**//**

**// Methods**

**//**

**//**

**// Accessor methods**

**//**

**/\*\***

**\* Set the value of Borrower\_Details**

**\* @param newVar the new value of Borrower\_Details**

**\*/**

**private void setBorrower\_Details (String newVar) {**

**Borrower\_Details = newVar;**

**}**

**/\*\***

**\* Get the value of Borrower\_Details**

**\* @return the value of Borrower\_Details**

**\*/**

**private String getBorrower\_Details () {**

**return Borrower\_Details;**

**}**

**/\*\***

**\* Set the value of Book\_Details**

**\* @param newVar the new value of Book\_Details**

**\*/**

**private void setBook\_Details (String newVar) {**

**Book\_Details = newVar;**

**}**

**/\*\***

**\* Get the value of Book\_Details**

**\* @return the value of Book\_Details**

**\*/**

**private String getBook\_Details () {**

**return Book\_Details;**

**}**

**/\*\***

**\* Set the value of Other\_Stock\_Details**

**\* @param newVar the new value of Other\_Stock\_Details**

**\*/**

**private void setOther\_Stock\_Details (String newVar) {**

**Other\_Stock\_Details = newVar;**

**}**

**/\*\***

**\* Get the value of Other\_Stock\_Details**

**\* @return the value of Other\_Stock\_Details**

**\*/**

**private String getOther\_Stock\_Details () {**

**return Other\_Stock\_Details;**

**}**

**//**

**// Other methods**

**//**

**/\*\***

**\*/**

**public void Borrower\_Info()**

**{**

**}**

**/\*\***

**\*/**

**public void Maintain\_Book\_Details()**

**{**

**}**

**/\*\***

**\*/**

**public void Update\_Book\_Details()**

**{**

**}**

**}**

**/\*\***

**\* Class Book\_Borrower**

**\*/**

**public class Book\_Borrower {**

**//**

**// Fields**

**//**

**private String General\_Details;**

**private String Book\_Required;**

**private String Book\_Issued;**

**private int Payment;**

**//**

**// Constructors**

**//**

**public Book\_Borrower () { };**

**//**

**// Methods**

**//**

**//**

**// Accessor methods**

**//**

**/\*\***

**\* Set the value of General\_Details**

**\* @param newVar the new value of General\_Details**

**\*/**

**private void setGeneral\_Details (String newVar) {**

**General\_Details = newVar;**

**}**

**/\*\***

**\* Get the value of General\_Details**

**\* @return the value of General\_Details**

**\*/**

**private String getGeneral\_Details () {**

**return General\_Details;**

**}**

**/\*\***

**\* Set the value of Book\_Required**

**\* @param newVar the new value of Book\_Required**

**\*/**

**private void setBook\_Required (String newVar) {**

**Book\_Required = newVar;**

**}**

**/\*\***

**\* Get the value of Book\_Required**

**\* @return the value of Book\_Required**

**\*/**

**private String getBook\_Required () {**

**return Book\_Required;**

**}**

**/\*\***

**\* Set the value of Book\_Issued**

**\* @param newVar the new value of Book\_Issued**

**\*/**

**private void setBook\_Issued (String newVar) {**

**Book\_Issued = newVar;**

**}**

**/\*\***

**\* Get the value of Book\_Issued**

**\* @return the value of Book\_Issued**

**\*/**

**private String getBook\_Issued () {**

**return Book\_Issued;**

**}**

**/\*\***

**\* Set the value of Payment**

**\* @param newVar the new value of Payment**

**\*/**

**private void setPayment (int newVar) {**

**Payment = newVar;**

**}**

**/\*\***

**\* Get the value of Payment**

**\* @return the value of Payment**

**\*/**

**private int getPayment () {**

**return Payment;**

**}**

**//**

**// Other methods**

**//**

**/\*\***

**\*/**

**public void Give\_General\_Details()**

**{**

**}**

**/\*\***

**\*/**

**public void Intimate\_Book\_Required()**

**{**

**}**

**/\*\***

**\*/**

**public void Inform\_Book\_Issued()**

**{**

**}**

**/\*\***

**\*/**

**public void Do\_the\_payment\_if\_any()**

**{**

**}**

**}**

**/\*\***

**\* Class Librarian**

**\*/**

**public class Librarian {**

**//**

**// Fields**

**//**

**private String Categorize\_Details;**

**private String Book\_Information;**

**private String Procedure\_Protocal;**

**private String Update\_Database;**

**//**

**// Constructors**

**//**

**public Librarian () { };**

**//**

**// Methods**

**//**

**//**

**// Accessor methods**

**//**

**/\*\***

**\* Set the value of Categorize\_Details**

**\* @param newVar the new value of Categorize\_Details**

**\*/**

**private void setCategorize\_Details (String newVar) {**

**Categorize\_Details = newVar;**

**}**

**/\*\***

**\* Get the value of Categorize\_Details**

**\* @return the value of Categorize\_Details**

**\*/**

**private String getCategorize\_Details () {**

**return Categorize\_Details;**

**}**

**/\*\***

**\* Set the value of Book\_Information**

**\* @param newVar the new value of Book\_Information**

**\*/**

**private void setBook\_Information (String newVar) {**

**Book\_Information = newVar;**

**}**

**/\*\***

**\* Get the value of Book\_Information**

**\* @return the value of Book\_Information**

**\*/**

**private String getBook\_Information () {**

**return Book\_Information;**

**}**

**/\*\***

**\* Set the value of Procedure\_Protocal**

**\* @param newVar the new value of Procedure\_Protocal**

**\*/**

**private void setProcedure\_Protocal (String newVar) {**

**Procedure\_Protocal = newVar;**

**}**

**/\*\***

**\* Get the value of Procedure\_Protocal**

**\* @return the value of Procedure\_Protocal**

**\*/**

**private String getProcedure\_Protocal () {**

**return Procedure\_Protocal;**

**}**

**/\*\***

**\* Set the value of Update\_Database**

**\* @param newVar the new value of Update\_Database**

**\*/**

**private void setUpdate\_Database (String newVar) {**

**Update\_Database = newVar;**

**}**

**/\*\***

**\* Get the value of Update\_Database**

**\* @return the value of Update\_Database**

**\*/**

**private String getUpdate\_Database () {**

**return Update\_Database;**

**}**

**//**

**// Other methods**

**//**

**/\*\***

**\*/**

**public void Store\_Collect\_the\_Book\_Borrower\_info()**

**{**

**}**

**/\*\***

**\*/**

**public void Update\_Book\_Borrowed\_info()**

**{**

**}**

**/\*\***

**\*/**

**public void Rules\_to\_be\_followed()**

**{**

**}**

**/\*\***

**\*/**

**public void Keep\_the\_database\_update()**

**{**

**}**

**}**