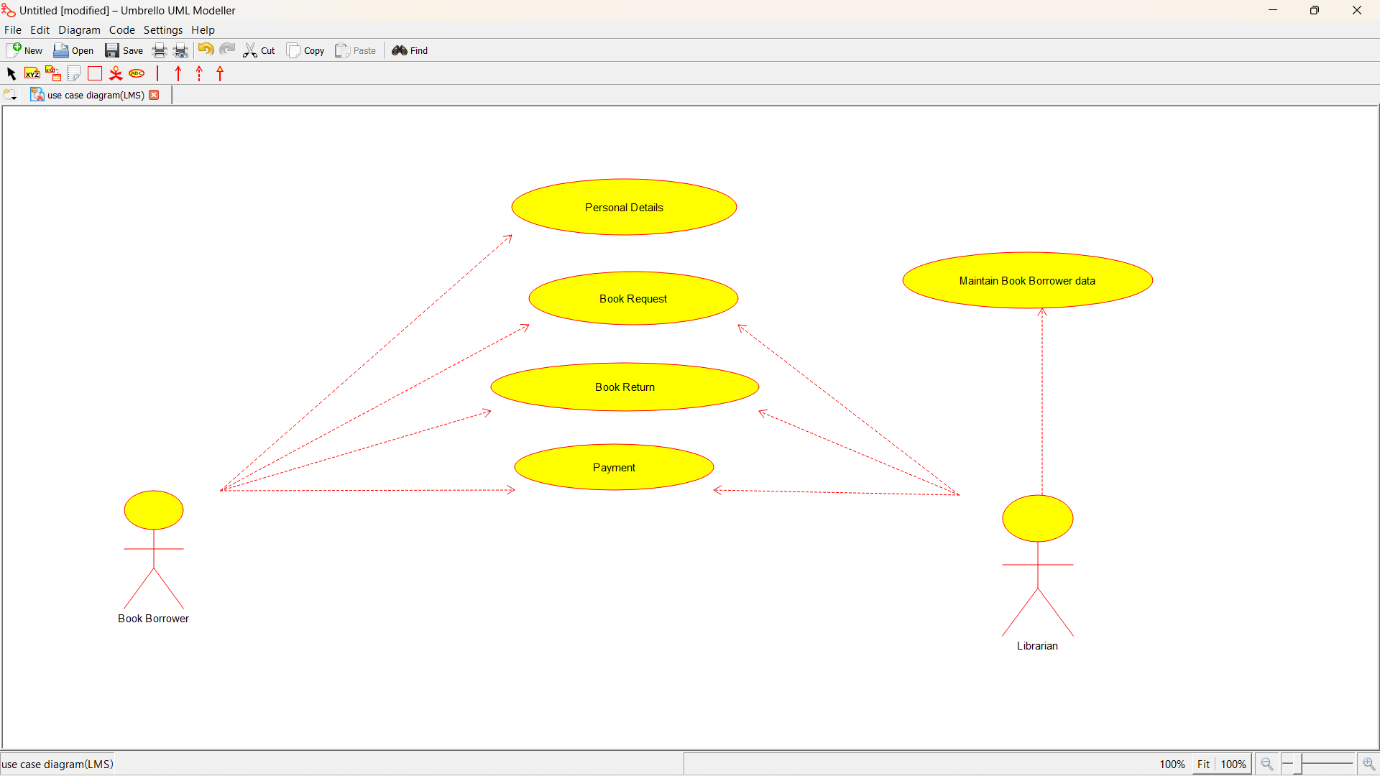
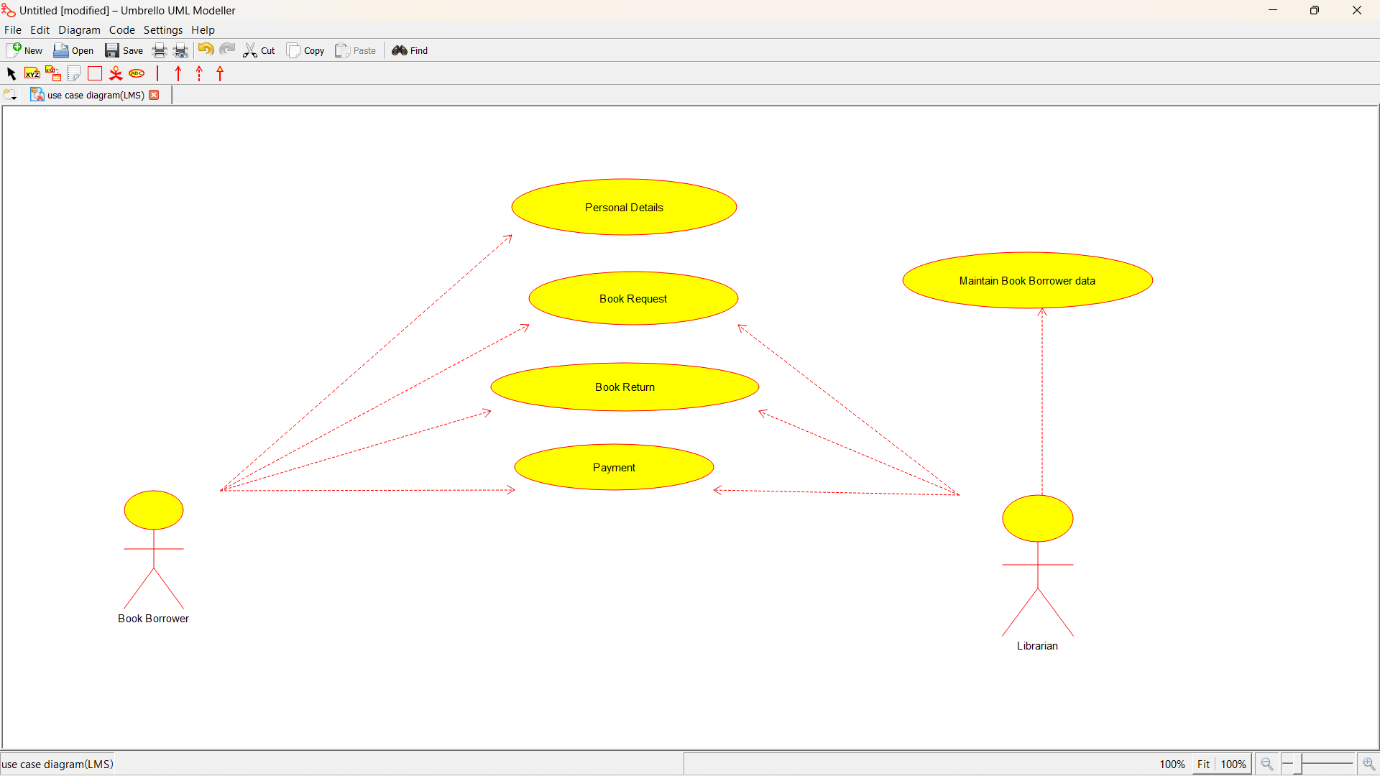
**20.LIBRARY MANAGEMENT SYSTEM**

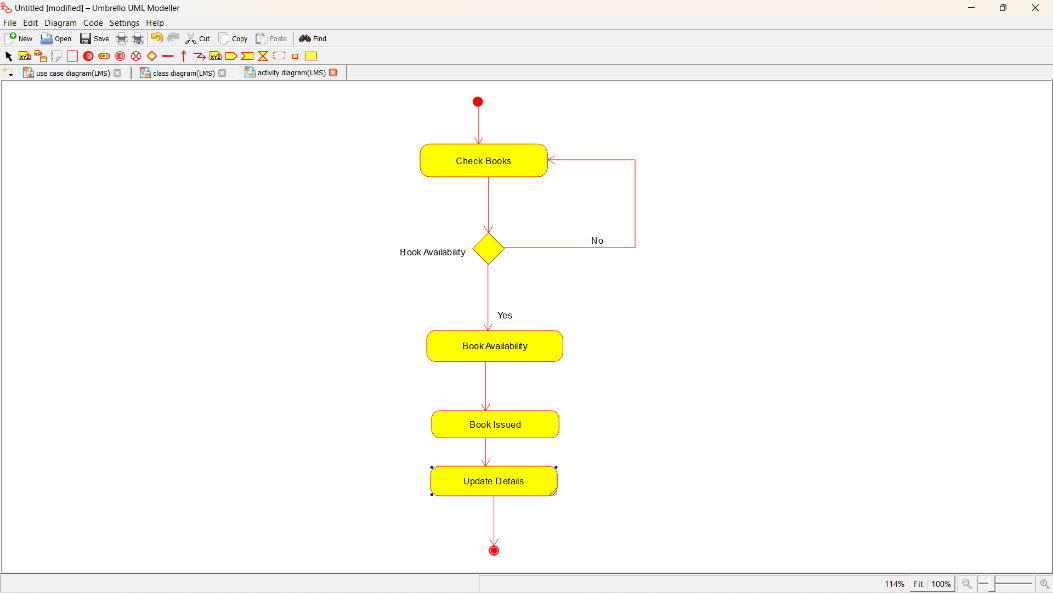
**USECASE DIAGRAM**



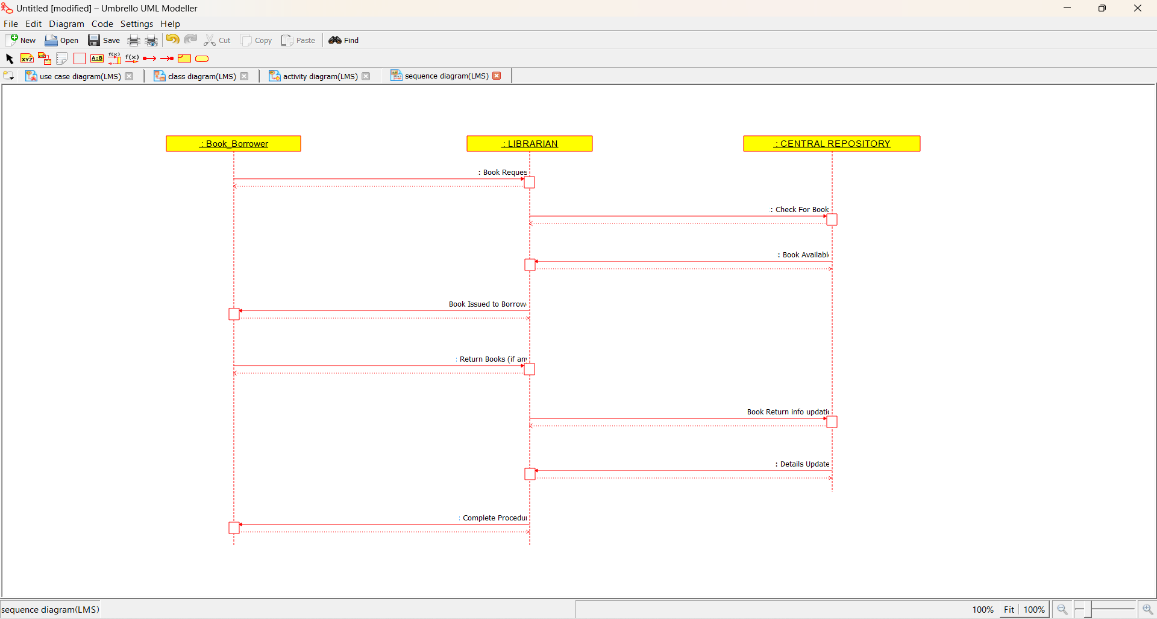
CLASS DIAGRAM



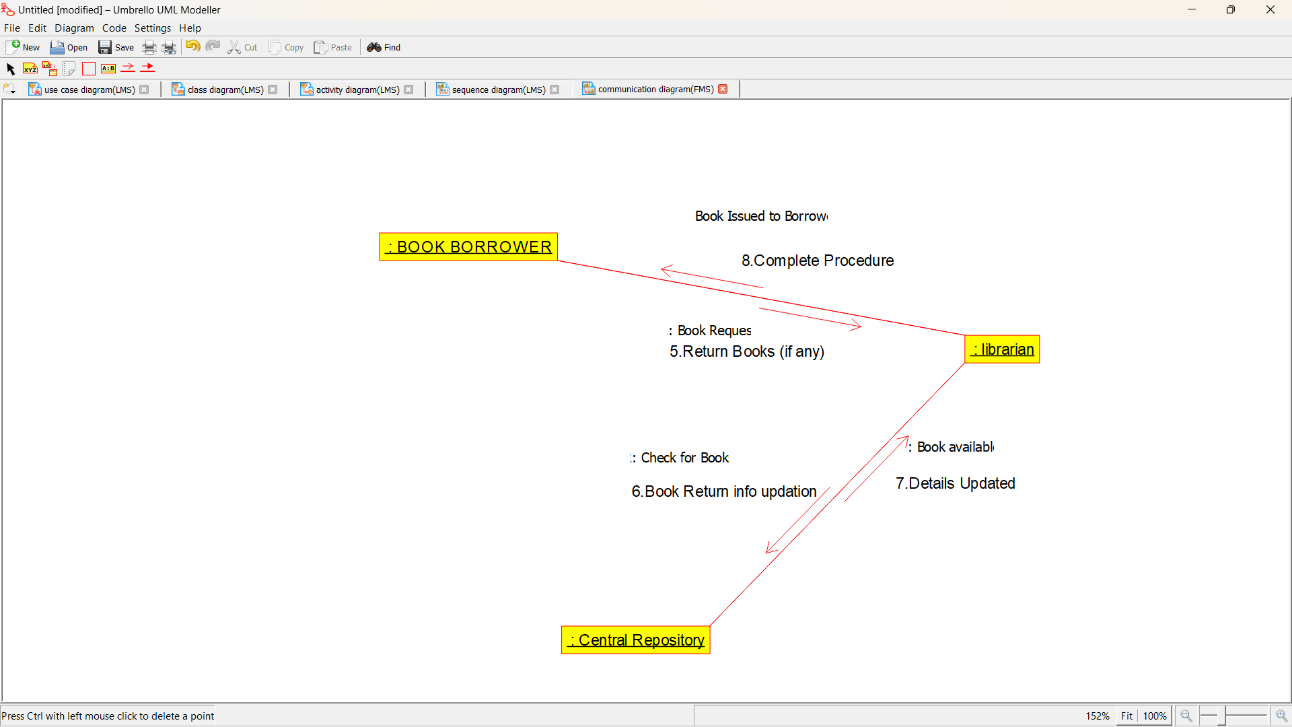
ACTIVITY DIAGRAM



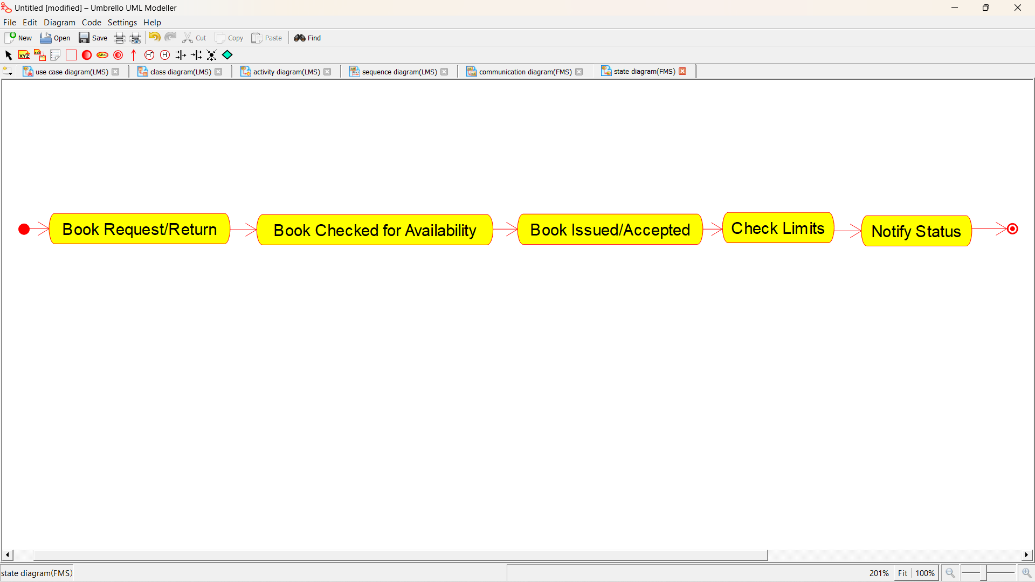
SEQUENCE DIAGRAM:



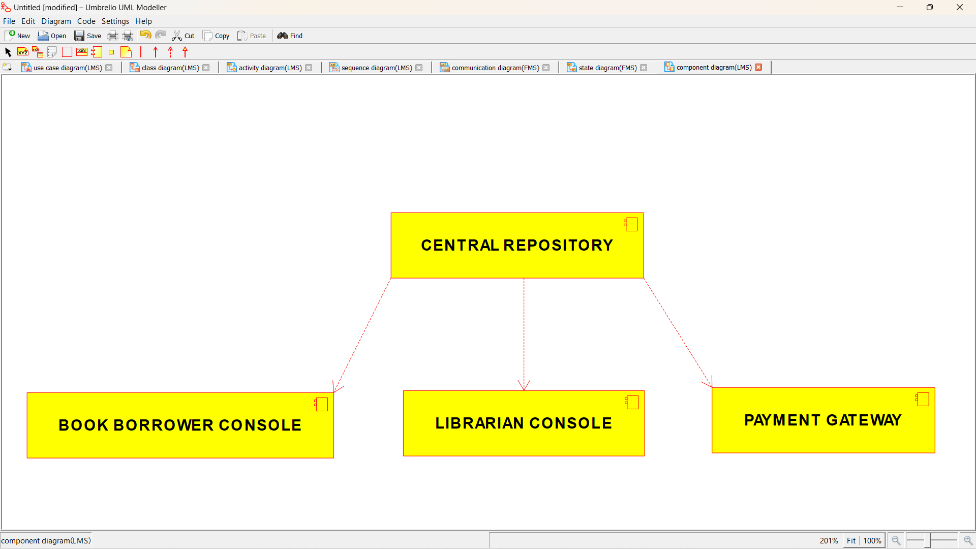
COLLABORATION DIAGRAM:



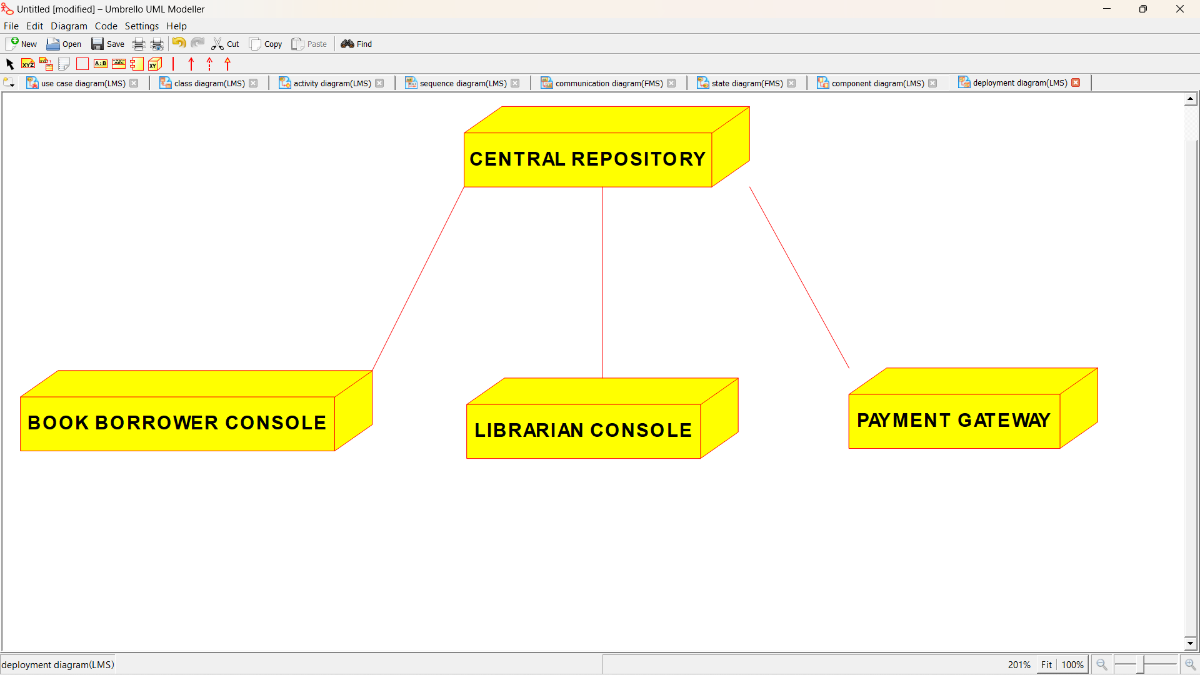
STATE CHART DIAGRAM:



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()

{

}

}