A Project Report

On

"Online Book Management System"

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In

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INTRODUCTION

A Book Management System is a software built to handle the primary housekeeping functions of a library. Libraries rely on Book management systems to manage asset collections as well as relationships with their members. Library management systems help libraries keep track of the books and their checkouts, as well as members' subscriptions and profiles. Book management systems also involve maintaining the database for entering new books and recording books that have been borrowed with their respective due dates.

This project mainly explains the various actions related to librarian and book details. This project shows some ease in adding, updating and deleting the librarian and book details.

Project Includes:

- Admin Module

- Librarian Module

I have developed this application in **java, jsp, servlet and mysql**. It is a web based application so I have used HTML, CSS and JavaScript too. The main feature of project is to manage the records of book details and librarian details.

In our project there is only one admin. Admin has right to do all operation related to librarian. i.e Admin can add librarian, view librarians, update librarian information and delete too.

And Librarian can do all operation related to book details. Librarian can add book details, update book details, issued book details and return book details.

Software Requirements

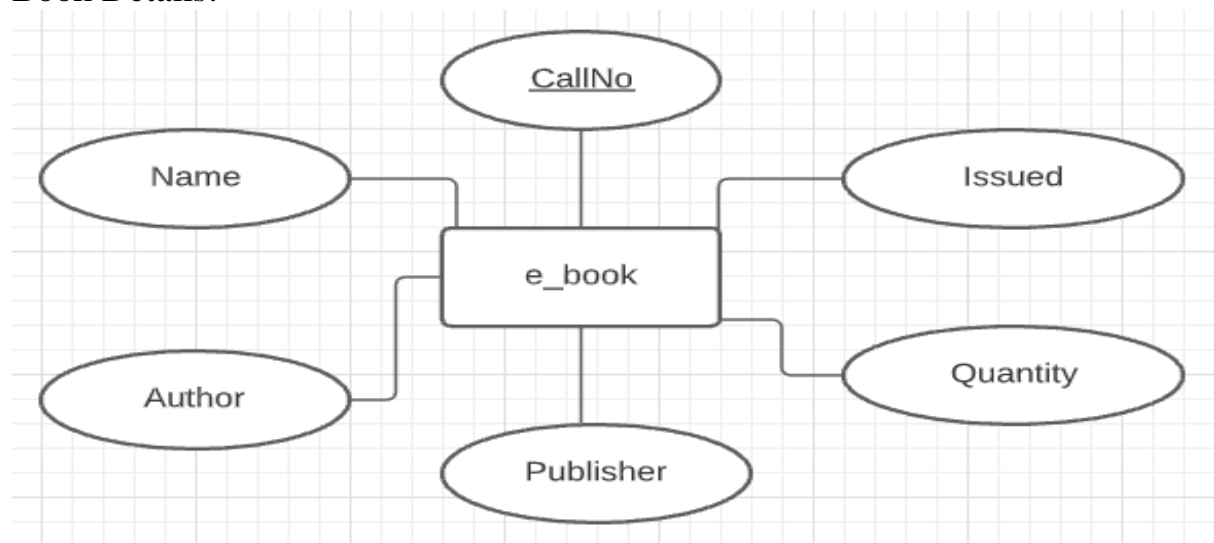- Front end :   Java/J2EE technologies (Servlet, JSP), HTML, CSS,
                                 JDBC
- Back end :   MySQL
- Middleware/Server :   Apache Tomcat v9.0
- IDE :   Eclipse IDE for Java EE Developers
- Browser :   Best result on Google Chrome
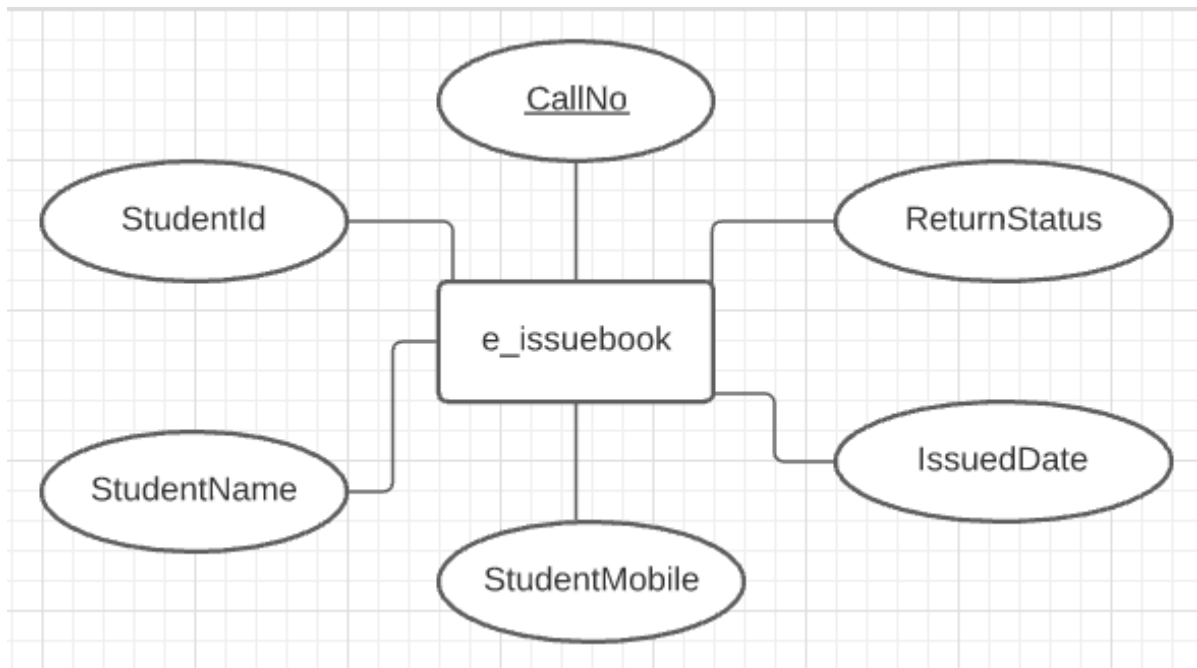- Operating System :   Window 10

ERD (Entity Relationship Diagram)

Librarian Details:
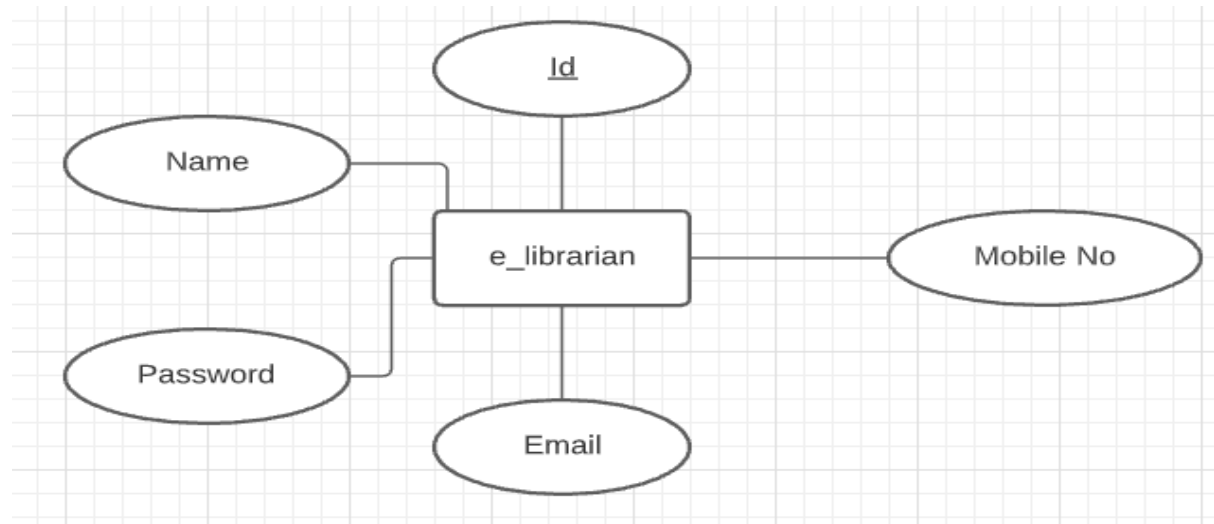
Book Details:

Issued Book Details:

DATABASE

create database SampleD;

use SampleD;

Librarian table :

```
CREATE TABLE `E_LIBRARIAN`
(
        `ID` DOUBLE NOT NULL,
        `NAME` VARCHAR(400),
        `PASSWORD` VARCHAR(400),
        `EMAIL` VARCHAR(400),
        `MOBILE` DOUBLE,
        CONSTRAINT `E_LIBRARIAN_PK` PRIMARY KEY (`ID`)
);

        select * from `E_LIBRARIAN` ;
```

Book table :

```
CREATE TABLE `E_BOOK`
  (
        `CALLNO` VARCHAR(400) NOT NULL,
        'NAME` VARCHAR(400),
        `AUTHOR` VARCHAR(400),
        `PUBLISHER` VARCHAR(400),
        'QUANTITY` DOUBLE,
        `ISSUED` DOUBLE,
        CONSTRAINT `E_BOOK_PK` PRIMARY KEY (`CALLNO`)
  );

        select * from `E_BOOK` ;
```

Issue Book details table :

```
CREATE TABLE `E_ISSUEBOOK`
(
        `CALLNO` VARCHAR(400) NOT NULL,
        `STUDENTID` VARCHAR(400) NOT NULL,
        `STUDENTNAME` VARCHAR(400),
        `STUDENTMOBILE` DOUBLE,
        `ISSUEDDATE` DATETIME,
        `RETURNSTATUS` VARCHAR(400)
);
        select * from `E_ISSUEBOOK` ;
```
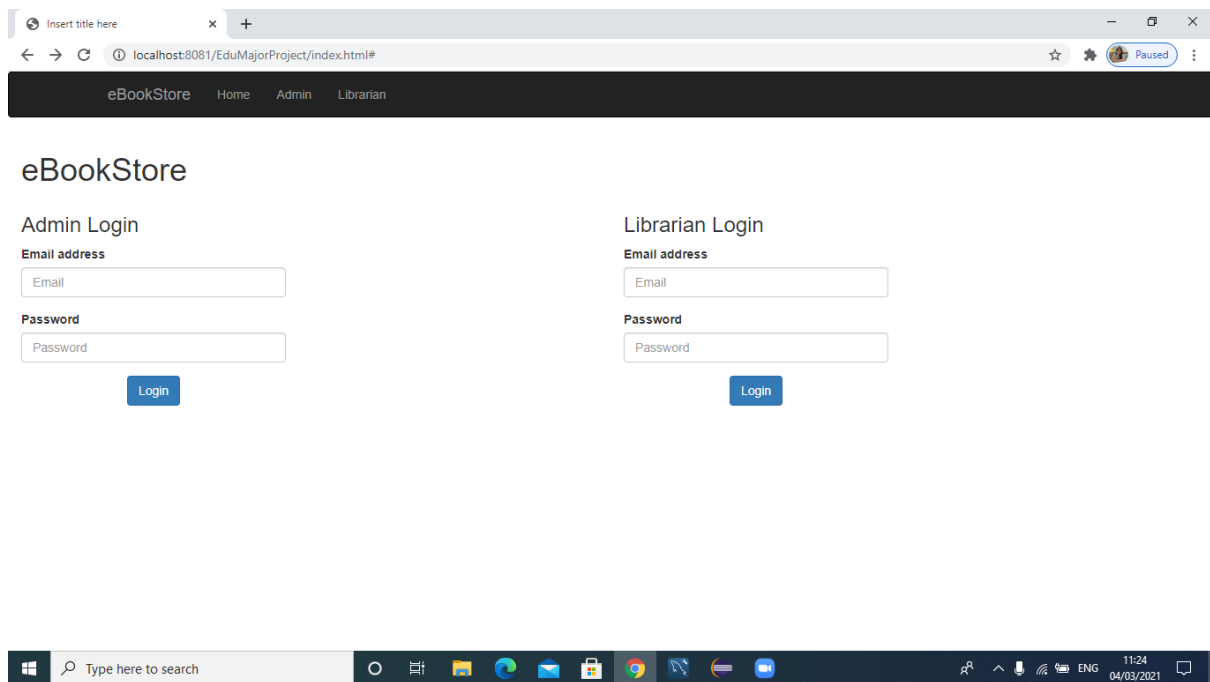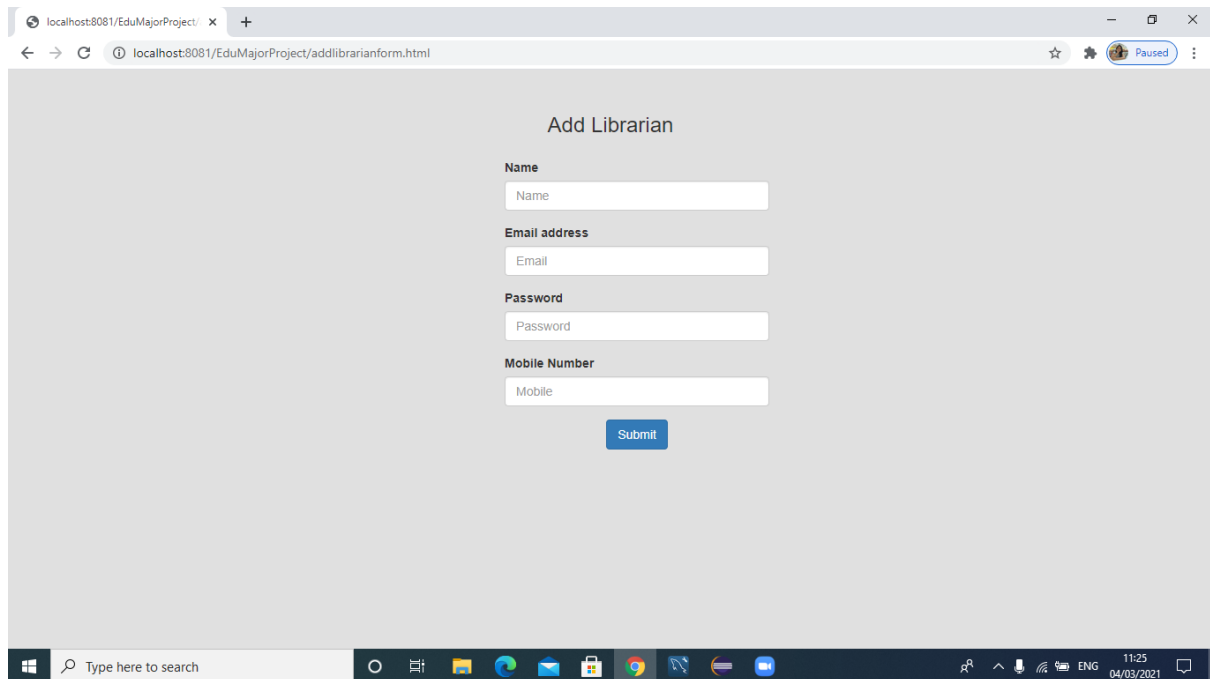
SCREENSHOTS

Fig 1. Home Page

Fig 2. Add Librarian

Fig 3. Update Librarian

Fig 4. View and Delete Librarian

Fig 5. Add Book details

Fig 6. View and Delete Book
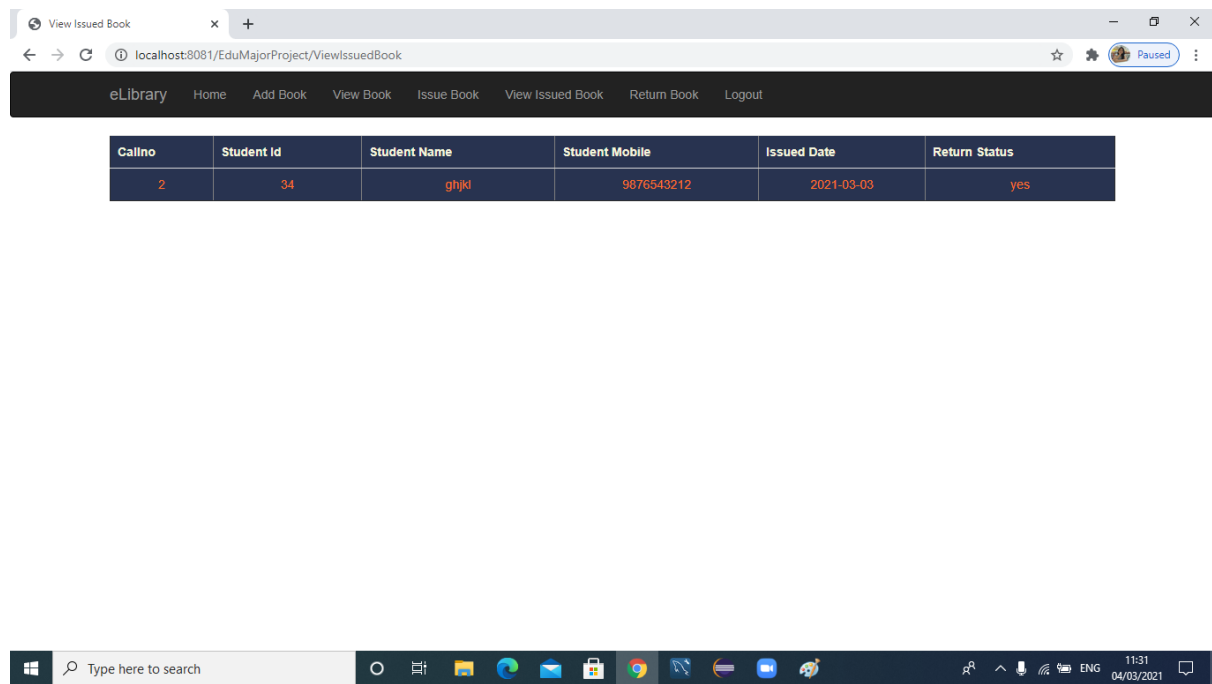
Fig 7. Issue Book

Fig 8. Return Book

Fig 8. View Issued Book details

Conclusion :

Online BookStore is a web application where student can issue book from librarian. In the project there is one admin who can handle all the operations related to librarian that means librarian can add the book, update book details, delete book and admin can handle all the operations related to librarian. Admin can add librarian, update, delete librarian.