Aryan Kumar Ankit Kumar Sriram Kumar
[COMPANY NAME]

# 1.Abstract

Our project is **E-book Website**. This is a website which helps student to find all types of books. It is useful in the way that it makes easier way to see books online. **E-book** is an interactive website solution providing user with an opportunity to find all types of books.`

In this website we have basically 2 modules. The first module includes the User module, and second module includes admin module.

The User have to register in website. The registered customer can view details of books.

The admin module contains the access of admin page on the website. The admin can change everything in the website. He have the ability to add, delete, and update any information regarding the books.

# 2.Introduction

This project is a web-based shopping system for an existing shop. The project objective is to deliver the online shopping application . Online shopping is the process whereby consumers directly buy books without an intermediary service, over the Internet. It is a form of electronic commerce. This project is attempts provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet . Thus, the customer will get the service of online shopping and home delivery.

# 3.System Analysis

## 3.1 OBJECTIVE

The objective of the project is to make an application in web platform to purchase items in an existing shop. To build such an application complete web support, need to be provided. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of an web application with web view.

## 3.2 Scope

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24*7 and a home delivery system which can make customers happy. If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flip cart or eBay. Since the application is available in the Smartphone it is easily accessible and always available.

## 3.3 Functionalities of system

The central concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an RDBMS at the server side (store).The Server process the customers and the items are shipped to the address submitted by them. The application was designed into two modules first is for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers.

The end user of this product isa departmental store where the application is hosted on the web and the administrator maintains the database. The application, which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personnel feed the relevant data into the system, several reports could be generated as per the security.

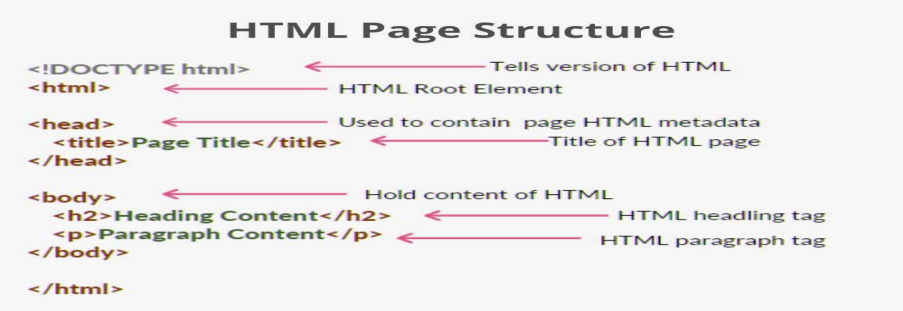
## 3.5 Tools & Environment

- Eclipse
- Apache tomcat

# 4.Technical Specification

## 4.1 HTML

HTML means Hypertext Markup Language. This language is used in creating web pages. This language also supports other languages such CSS, PHP, JAVASCRIPT, etc. in creating interactive and responsive pages on the pages. HTML5 is just an updated version of the HTML. It supports new features, new attributes, new HTML elements, full CSS3 support, video and audio, 2D/3D graphics that help users and also help web developers to create new features easily on the website.



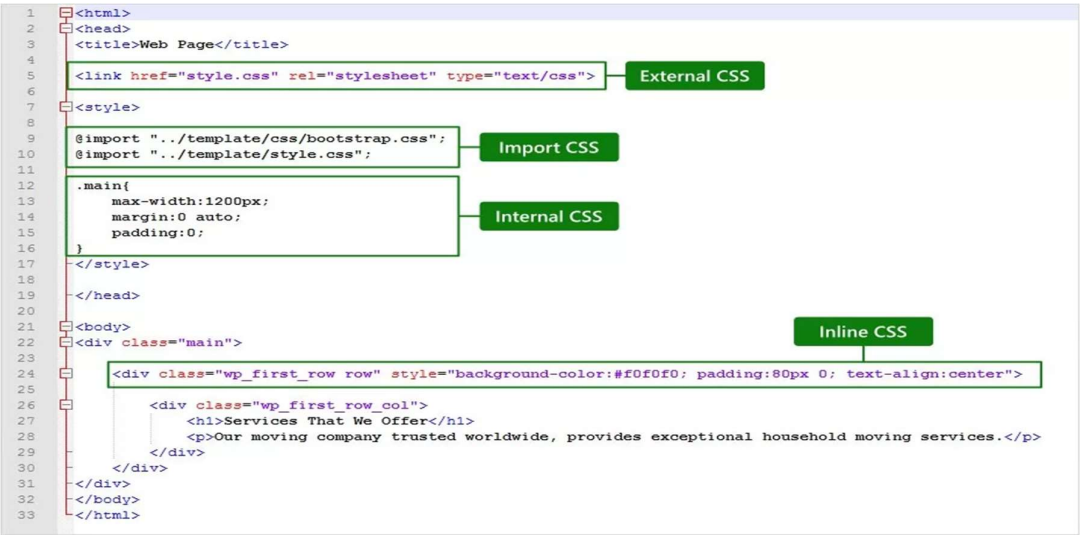

## 4.2 CSS

CSS is simply referred to as Cascading Style Sheets.CSS is used to define styles for web pages, including the design, layout, and variations in the display for different devices and screen sizes./3/

The general structure of CSS

Basic syntax:

selector{property: value}




## 4.3 JavaScript

JavaScript is a high-level language which could be used independently or inculcated into the webpage. It can be used to,

handle requests and responses and also add dynamic behaviour and also store information on a website.

## 4.4 Servlet

**Servlet** technology is used to create a web application (resides at server side and generates a dynamic web page).

**Servlet** technology is robust and scalable because of java language. Before Servlet, CGI (Common Gateway Interface) scripting language was common as a server-side programming language. However, there were many disadvantages to this technology. We have discussed these disadvantages below.

There are many interfaces and classes in the Servlet API such as Servlet, Generic Servlet, HTTP Servlet, Servlet Request, Servlet Response, etc.

Servlet is a technology which is used to create a web application.

Servlet is an API that provides many interfaces and classes including documentation.

Servlet is an interface that must be implemented for creating any Servlet.

Servlet is a class that extends the capabilities of the servers and responds to the incoming requests. It can respond to any requests.

Servlet is a web component that is deployed on the server to create a dynamic web page.

## 4.5 JSP

**JSP** technology is used to create web application just like Servlet technology. It can be thought of as an extension to Servlet because it provides more functionality than servlet such as expression language, JSTL, etc.

A JSP page consists of HTML tags and JSP tags. The JSP pages are easier to maintain than Servlet because we can separate designing and development. It provides some additional features such as Expression Language, Custom Tags, etc.

## 4.6 MySQL

MySQL is an Oracle-backed open source relational ?database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX, and Windows. Although it can be used in a wide range application, MySQL is most often associated with web applications and online publishing.

MySQL is an important component of an open-source enterprise stack called LAMP. LAMP is a web development platform that uses Linux as the operating system, Apache as the web server, MySQL as the relational database management system and PHP as the object-oriented scripting language. (Sometimes Perl or Python is used instead of PHP.)

## . 4.7 Apache Tomcat

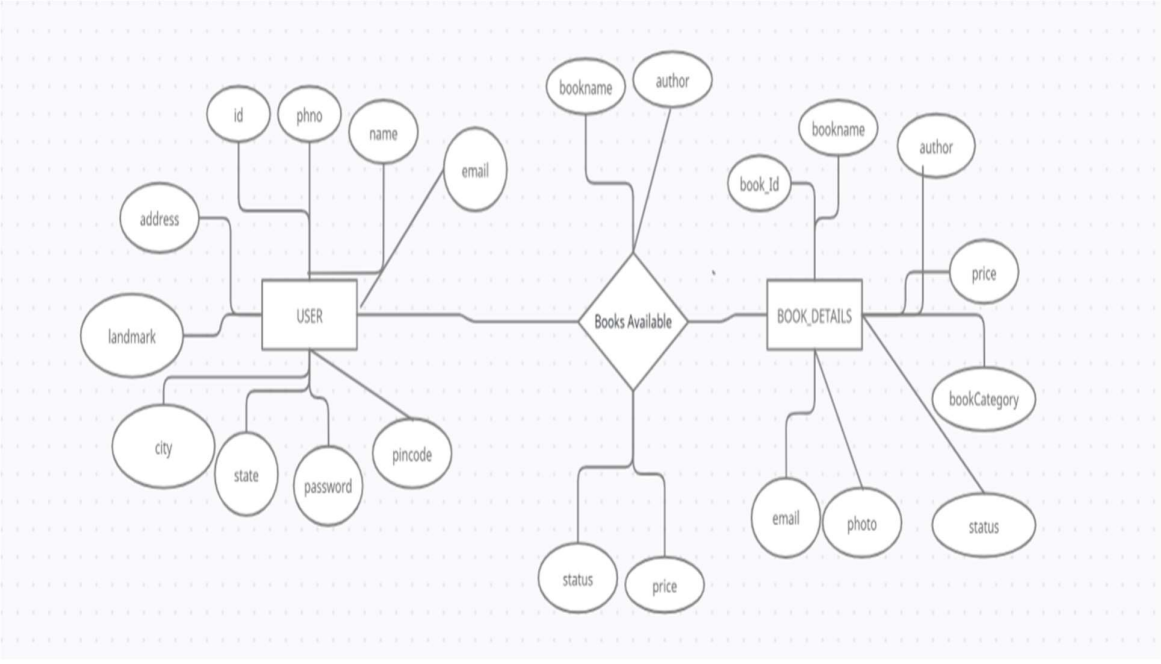
Apache Tomcat (called "Tomcat" for short) is a free and open-source implementation of the Jakarta Servlet, Jakarta Expression Language, and WebSocket technologies.[3] It provides a "pure Java" HTTP web

server environment in which Java code can also run. Thus, it's a Java web application server, although not a full JEE application server.

Tomcat is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation, released under the Apache License 2.0 license.

# 5.System Design

## 5.1 E-R DIAGRAMS




## 5.2 Table Structure

### Book_detail

Table Name: book_details  Schema: ebook-app

| Column Name | Datatype | PK | NN | UQ | B | UN | ZF | AI | G | Default/Expression |
|---|---|---|---|---|---|---|---|---|---|---|
| bookId | INT(11) | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | |
| bookname | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| author | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| price | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| bookCategory | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| status | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| photo | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |

## User

Table Name: user  Schema: ebook-app

| Column Name | Datatype | PK | NN | UQ | B | UN | ZF | AI | G | Default/Expression |
|---|---|---|---|---|---|---|---|---|---|---|
| id | INT(11) | ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | ☑ | ☐ | |
| name | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| email | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| password | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| phno | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| address | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |
| landmark | VARCHAR(45) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | NULL |

# 6.Sample coding

addbooks.jsp | BookDetails... | BooksAdd.java | BookDAO.java | BookDAOImpl... | User.java | home.j

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>User: Home</title>

<%@include file="al_sources/allcss.jsp"%>
<style type="text/css">
a {
    text-decoration: none;
}

a:hover {
    text-decoration: none;
}

.card:hover {
    background-color: #f1f2f3;
}
</style>
</head>
<body>
    <%@include file="User/nav.jsp"%>
    <div class="container text-center">
        <Strong><h1>Hello User...</h1></Strong>
    </div>
    <div class="container pl-3 p-1 ">
```

Terminal | Markers | Properties | Servers | Data Source Explorer | Snippets | Console

No consoles to display at this time.

addbooks.jsp | BookDetails... | BooksAdd.java | BookDAO.java | BookDAOImpl... | User.java | home.jsp | RegisterServ...

```jsp
        <div class="row p-5 m-4">
            <div class="col-md-5">
                <a href="User/recentbooks.jsp">
                    <div class="card p-4">
                        <div class="card-body text-center">
                            <i class="fas fa-book-open fa-3x text-primary"></i><br>
                            <h4>Books</h4>
                        </div>
                    </div>
                </a>
            </div>
            <div class="col-md-5">
                <a href="../Book-App/index.jsp">
                    <div class="card p-4">
                        <div class="card-body text-center">
                            <i
                                class="fa-sharp fa-solid fa-right-from-bracket fa-3x text-danger"></i><br>
                            <h4>Logout</h4>
                        </div>
                    </div>
                </a>
            </div>
        </div>
    </div>

  <br><br><br><br><br><br><br><br><br>
    <%@include file="al_sources/footer.jsp"%>
</body>
</html>
```

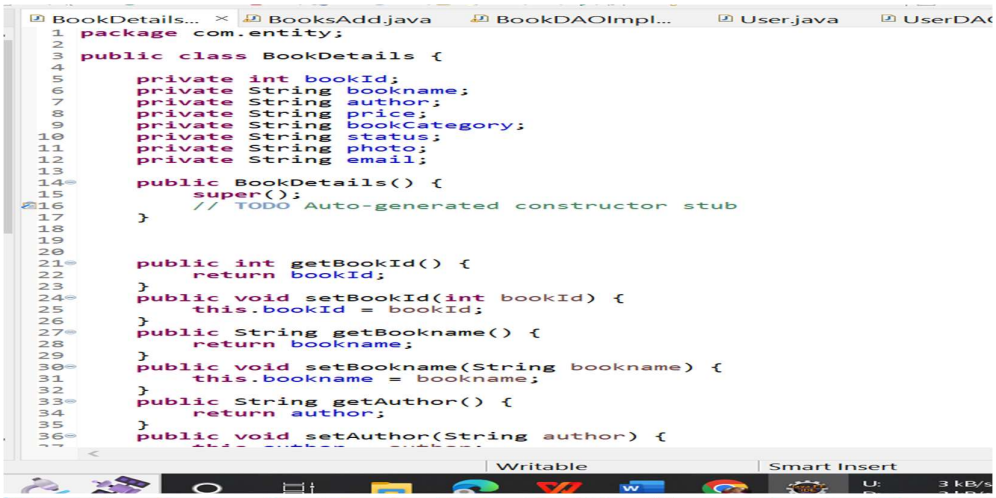
```java
package com.DAO;

import java.sql.Connection;


public class BookDAOImpl implements BookDAO{

    private Connection conn;

    public BookDAOImpl(Connection con)
    {
        super();
        this.conn = con;
    }

    public boolean addBook(BookDetails b){
        boolean f=false;

        try {
            String qry="insert into book_details(bookId,bookname,author,price,bookCategory,status,photo,email) val
            PreparedStatement ps=conn.prepareStatement(qry);
            ps.setInt(1, b.getBookId());
            ps.setString(2, b.getBookname());
            ps.setString(3, b.getAuthor());
            ps.setString(4, b.getPrice());
            ps.setString(5, b.getBookCategory());
            ps.setString(6, b.getStatus());
            ps.setString(7, b.getPhoto());
            ps.setString(8, b.getEmail());
            int i=ps.executeUpdate();
            if(i>0)
            {
                f=true;
            }
        }
        catch(Exception e)
```

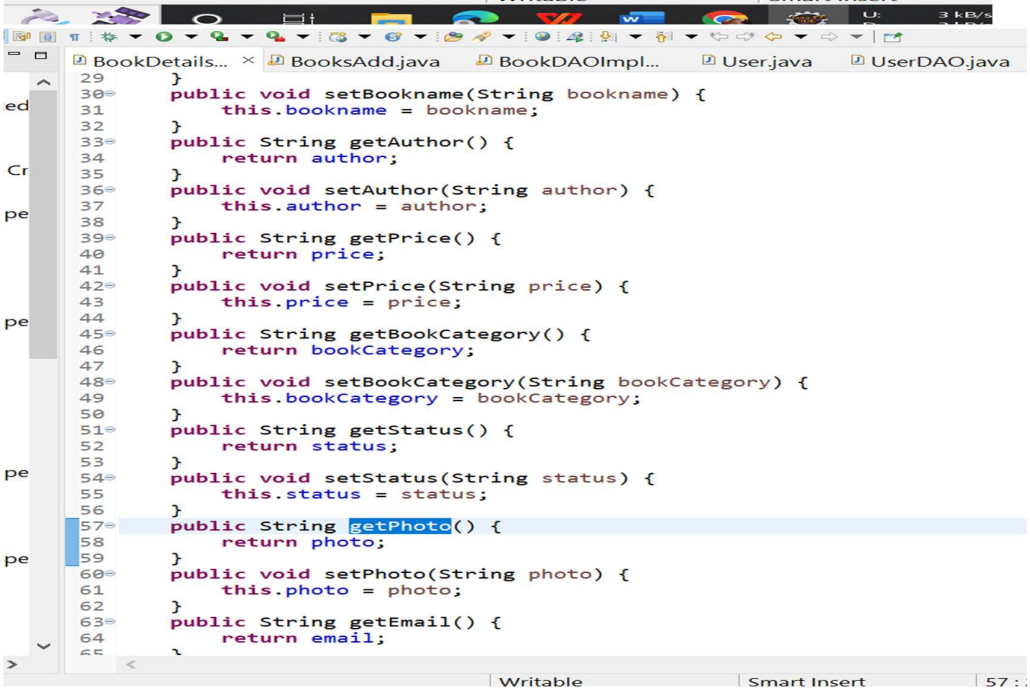
addbooks.jsp | BookDetails... | BookDAO.java | BookDAOImpl... | User.java | index.jsp | Signup.jsp | RegisterServ...

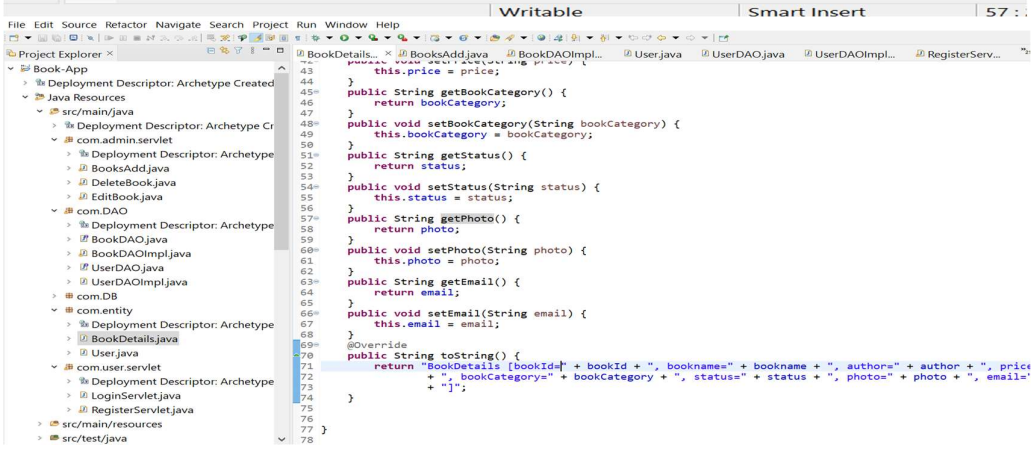
```java
package com.user.servlet;

import java.io.IOException;

@WebServlet("/register")
public class RegisterServlet extends HttpServlet {

    /**
     *
     */
    private static final long serialVersionUID = 1L;

    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
        PrintWriter out = resp.getWriter();
        try {
            String name=req.getParameter("fname");
            String email=req.getParameter("email");
            String phno=req.getParameter("phno");
            String password=req.getParameter("password");
            String check=req.getParameter("check");

            //System.out.println(name+" "+email+" "+phno+" "+password);
            //String qry = "insert into user values(1,name,email,phno,password)";
            User us = new User();
            us.setName(name);
            us.setEmail(email);
            us.setPhno(phno);
            us.setPassword(password);

            UserDAOImpl dao=new UserDAOImpl(DBconnect.getConn());
            boolean f=dao.userRegister(us);
            if(f)
            {
                System.out.println("User Register Successfully");
                out.println("<script type=\"text/javascript\">");
```

addbooks.jsp | BookDetails... | BooksAdd.java | BookDAO.java | BookDAOImpl... | User.java | Signup.jsp

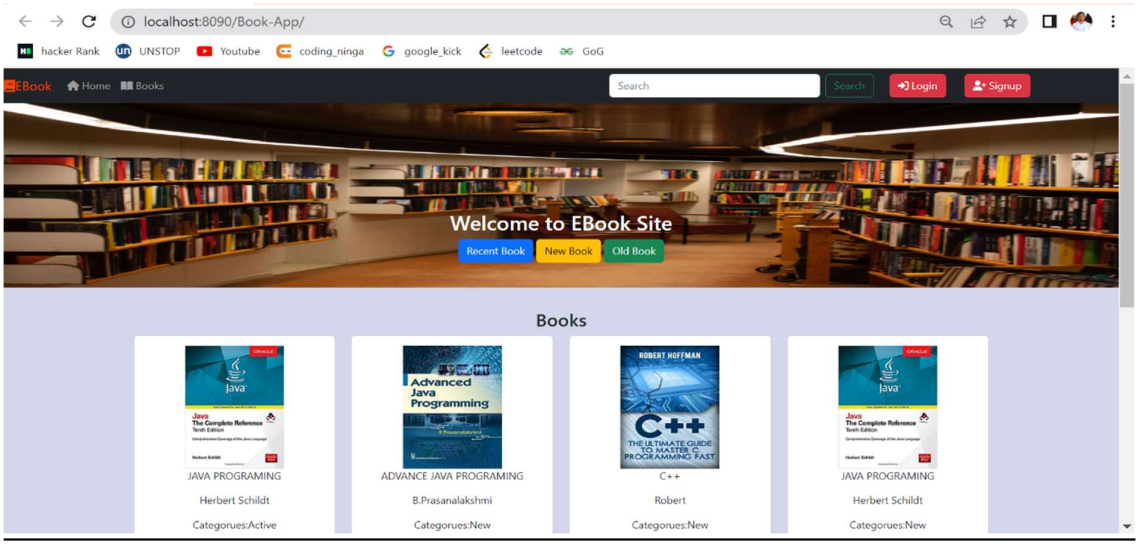
```java
package com.admin.servlet;

import java.io.IOException;


@WebServlet("/addbooks")
@MultipartConfig
public class BooksAdd extends HttpServlet{


    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException
        PrintWriter out = resp.getWriter();
        try {
            String bookName=req.getParameter("bname");
            String author=req.getParameter("aname");
            String price=req.getParameter("price");
            String categories=req.getParameter("btype");
            String status=req.getParameter("bstatus");
            Part part=req.getPart("bimg");
            String fileName=part.getSubmittedFileName();

            //System.out.println(bookName+" "+author+" "+price+" "+categories+" "+status+" "+fileNa

            BookDetails b = new  BookDetails();
            b.setBookname(bookName);
            b.setAuthor(author);
            b.setPrice(price);
            b.setBookCategory(categories);
            b.setStatus(status);
            b.setPhoto(fileName);
            b.setEmail("admin");
//          System.out.println(b);

            BookDAOImpl dao=new BookDAOImpl(DBconnect.getConn());
```

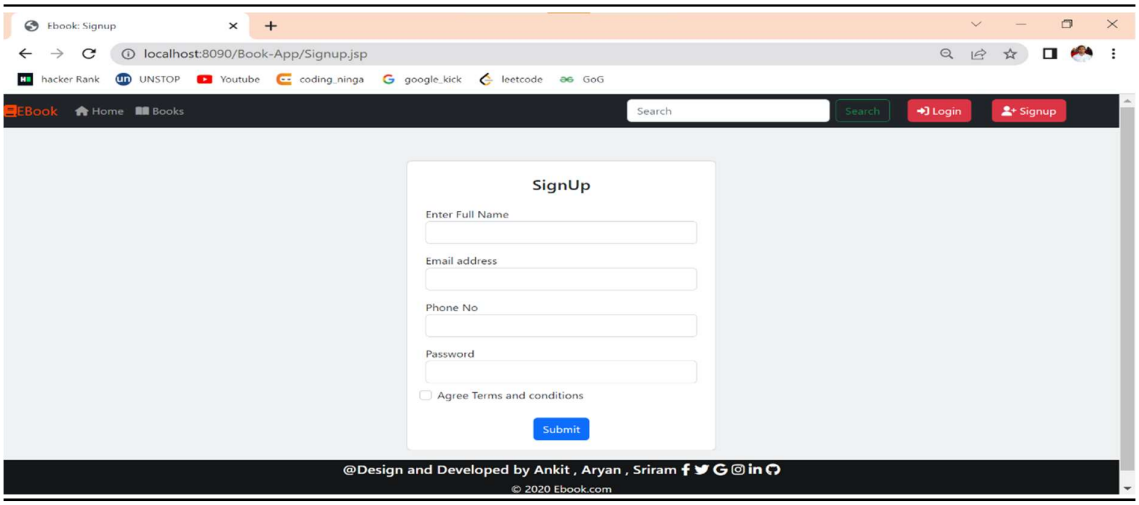

BookDetails...
BooksAdd.java
BookDAOImpl...
User.java
UserDA(
1 package com.entity;
2
3 public class BookDetails {
4
5 private int bookId;
6 private String bookname;
7 private String author;
8 private String price;
9 private String bookCategory;
10 private String status;
11 private String photo;
12 private String email;
13
14 public BookDetails() {
15 super();
16 // TODO Auto-generated constructor stub
17 }
18
19
20
21 public int getBookId() {
22 return bookId;
23 }
24 public void setBookId(int bookId) {
25 this.bookId = bookId;
26 }
27 public String getBookname() {
28 return bookname;
29 }
30 public void setBookname(String bookname) {
31 this.bookname = bookname;
32 }
33 public String getAuthor() {
34 return author;
35 }
36 public void setAuthor(String author) {
Writable
Smart Insert

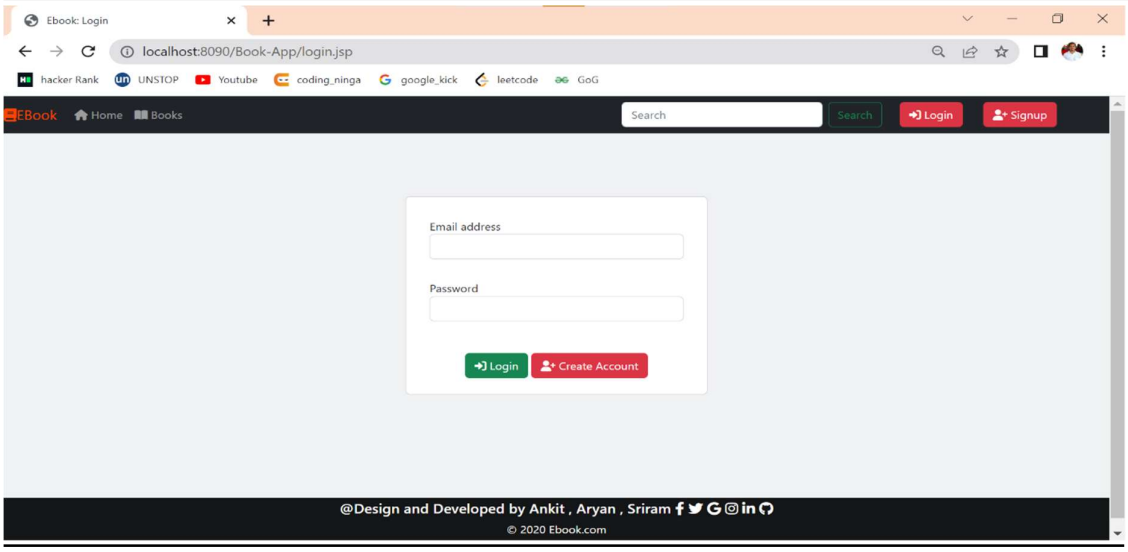

BookDetails...
BooksAdd.java
BookDAOImpl...
User.java
UserDAO.java
29 }
30 public void setBookname(String bookname) {
31 this.bookname = bookname;
32 }
33 public String getAuthor() {
34 return author;
35 }
36 public void setAuthor(String author) {
37 this.author = author;
38 }
39 public String getPrice() {
40 return price;
41 }
42 public void setPrice(String price) {
43 this.price = price;
44 }
45 public String getBookCategory() {
46 return bookCategory;
47 }
48 public void setBookCategory(String bookCategory) {
49 this.bookCategory = bookCategory;
50 }
51 public String getStatus() {
52 return status;
53 }
54 public void setStatus(String status) {
55 this.status = status;
56 }
57 public String getPhoto() {
58 return photo;
59 }
60 public void setPhoto(String photo) {
61 this.photo = photo;
62 }
63 public String getEmail() {
64 return email;
Writable
Smart Insert
57 :

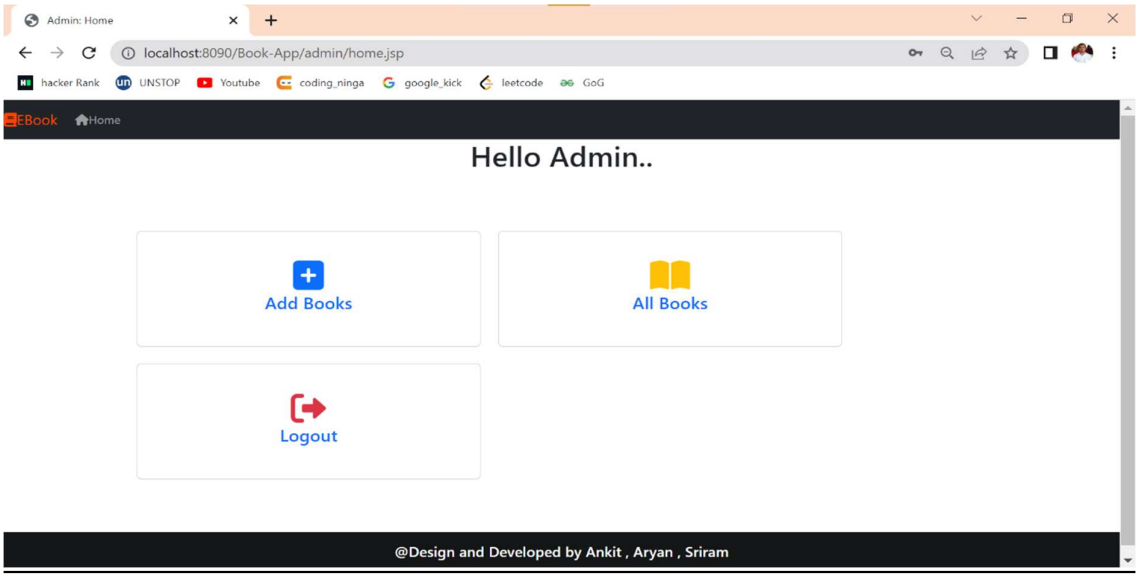

File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
Book-App
Deployment Descriptor: Archetype Created
Java Resources
src/main/java
com.admin.servlet
BooksAdd.java
DeleteBook.java
EditBook.java
com.DAO
BookDAO.java
BookDAOImpl.java
UserDAO.java
UserDAOImpl.java
com.DB
com.entity
BookDetails.java
User.java
com.user.servlet
LoginServlet.java
RegisterServlet.java
src/main/resources
src/test/java
BookDetails...
BooksAdd.java
BookDAOImpl...
User.java
UserDAO.java
UserDAOImpl...
RegisterServ...
43 this.price = price;
44 }
45 public String getBookCategory() {
46 return bookCategory;
47 }
48 public void setBookCategory(String bookCategory) {
49 this.bookCategory = bookCategory;
50 }
51 public String getStatus() {
52 return status;
53 }
54 public void setStatus(String status) {
55 this.status = status;
56 }
57 public String getPhoto() {
58 return photo;
59 }
60 public void setPhoto(String photo) {
61 this.photo = photo;
62 }
63 public String getEmail() {
64 return email;
65 }
66 public void setEmail(String email) {
67 this.email = email;
68 }
69 @Override
70 public String toString() {
71 return "BookDetails [bookId=" + bookId + ", bookname=" + bookname + ", author=" + author + ", price
72 + ", bookCategory=" + bookCategory + ", status=" + status + ", photo=" + photo + ", email="
73 + "]";
74 }
75
76
77 }
78

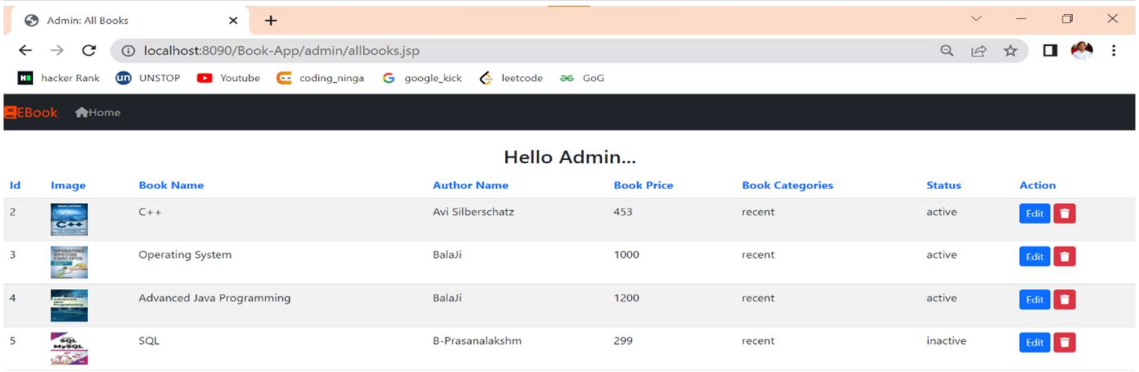
# 7.Implementation Screen shot




Admin: Home
localhost:8090/Book-App/admin/home.jsp
hacker Rank
UNSTOP
Youtube
coding_ninga
google_kick
leetcode
GoG
EBook
Home
Hello Admin..
Add Books
All Books
Logout
@Design and Developed by Ankit , Aryan , Sriram


Admin: All Books
localhost:8090/Book-App/admin/allbooks.jsp
hacker Rank
UNSTOP
Youtube
coding_ninga
google_kick
leetcode
GoG
EBook
Home
Hello Admin...
Id
Image
Book Name
Author Name
Book Price
Book Categories
Status
Action
2
C++
Avi Silberschatz
453
recent
active
Edit
3
Operating System
BalaJi
1000
recent
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1200
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active
Edit
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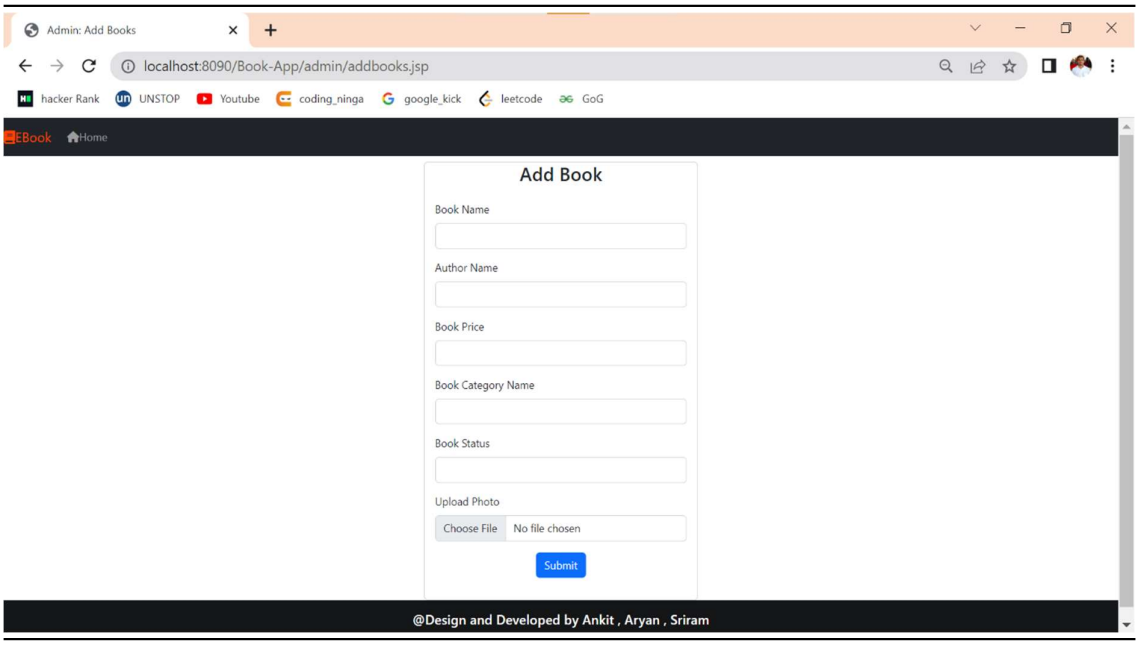
SQL
B-Prasanalakshm
299
recent
inactive
Edit


Admin: Add Books
localhost:8090/Book-App/admin/addbooks.jsp
hacker Rank
UNSTOP
Youtube
coding_ninga
google_kick
leetcode
GoG
EBook
Home
Add Book
Book Name
Author Name
Book Price
Book Category Name
Book Status
Upload Photo
Choose File
No file chosen
Submit
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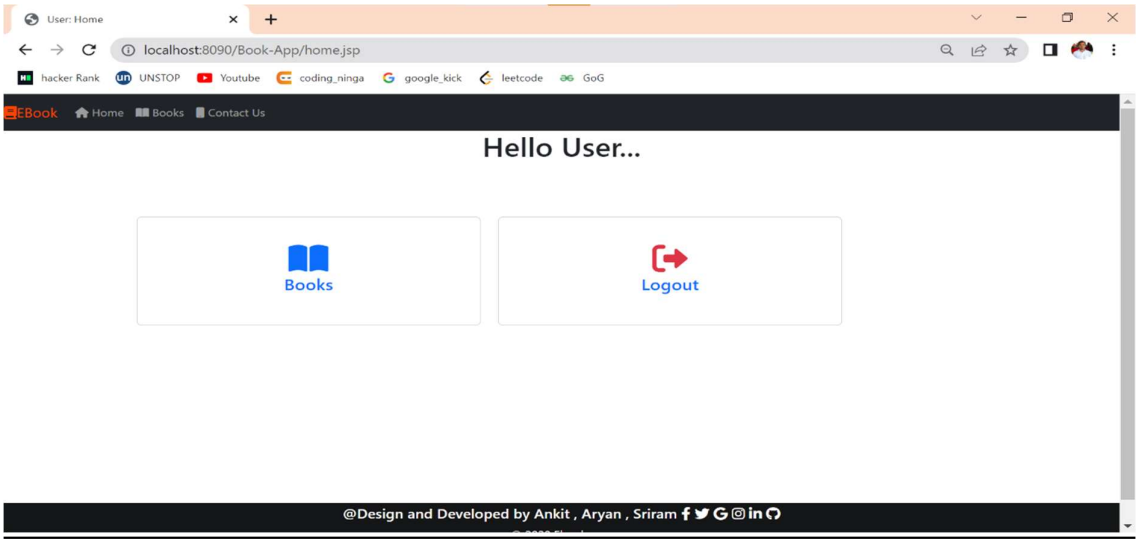
User: Home
localhost:8090/Book-App/home.jsp
hacker Rank
UNSTOP
Youtube
coding_ninga
google_kick
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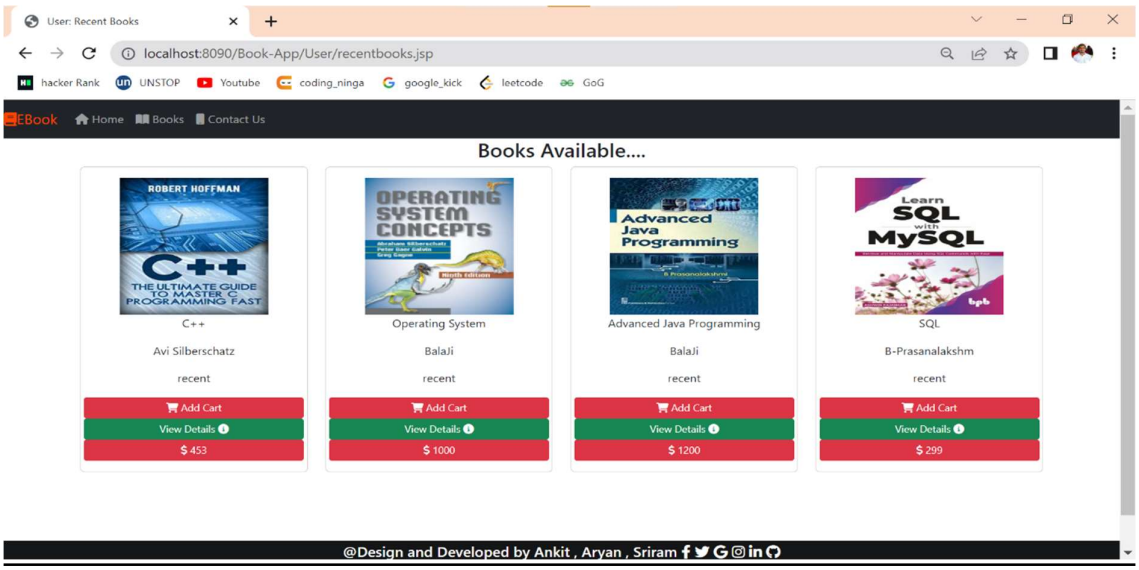
GoG
EBook
Home
Books
Contact Us
Hello User...
Books
Logout
@Design and Developed by Ankit , Aryan , Sriram


User: Recent Books
localhost:8090/Book-App/User/recentbooks.jsp
hacker Rank
UNSTOP
Youtube
coding_ninga
google_kick
leetcode
GoG
EBook
Home
Books
Contact Us
Books Available....
C++
Avi Silberschatz
recent
Add Cart
View Details
$ 453
Operating System
BalaJi
recent
Add Cart
View Details
$ 1000
Advanced Java Programming
BalaJi
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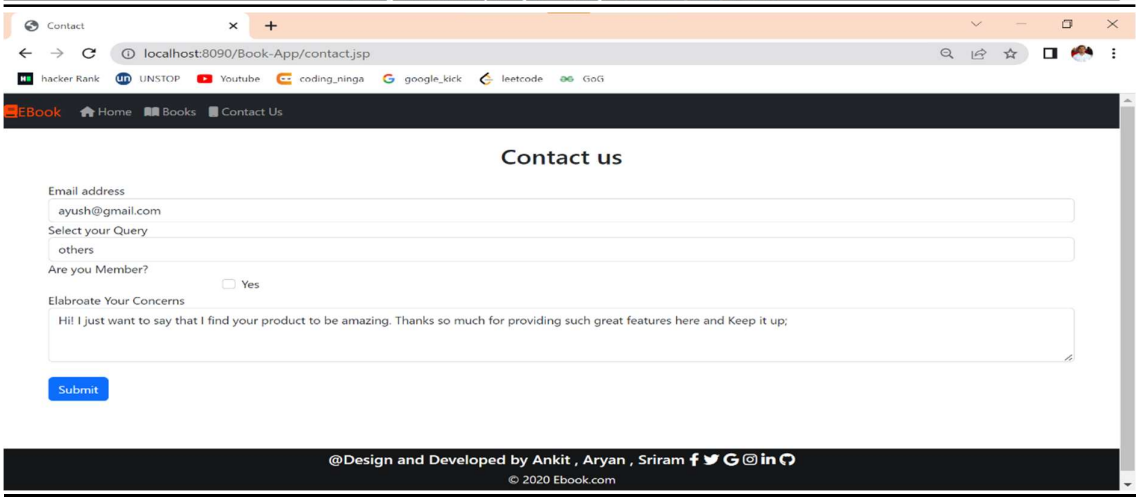
SQL
B-Prasanalakshm
recent
Add Cart
View Details
$ 299
@Design and Developed by Ankit , Aryan , Sriram


Contact
localhost:8090/Book-App/contact.jsp
hacker Rank
UNSTOP
Youtube
coding_ninga
google_kick
leetcode
GoG
EBook
Home
Books
Contact Us
Contact us
Email address
ayush@gmail.com
Select your Query
others
Are you Member?
Yes
Elabroate Your Concerns
Hi! I just want to say that I find your product to be amazing. Thanks so much for providing such great features here and Keep it up;
Submit
@Design and Developed by Ankit , Aryan , Sriram
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# 8.Conclusion and Future Work

The Internet has become a major resource in modern business, thus electronic shopping has gained significance not only from the entrepreneur's but also from the customer's point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. As per a survey, most consumers of online stores are impulsive and usually decide to stay on a site within the first few seconds. "Website design is like a shop interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site". Hence, we have designed the project to provide the user with easy navigation, retrieval of data and necessary feedback as much as possible.

**Future Work:-**

Add a Cart feature