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# 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 is a 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.

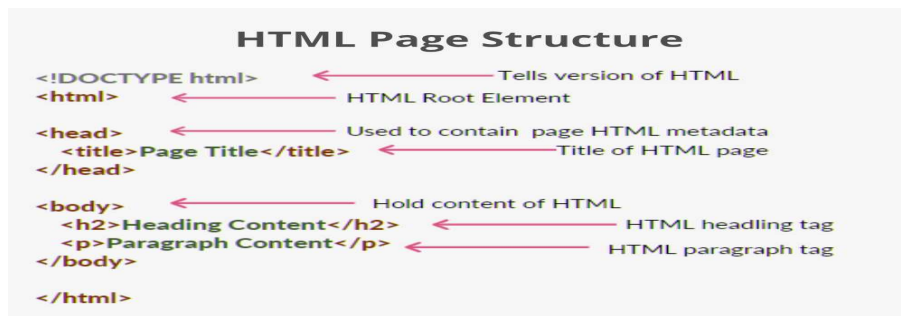
### 3.5 Tools & Environment

- 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 as 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.



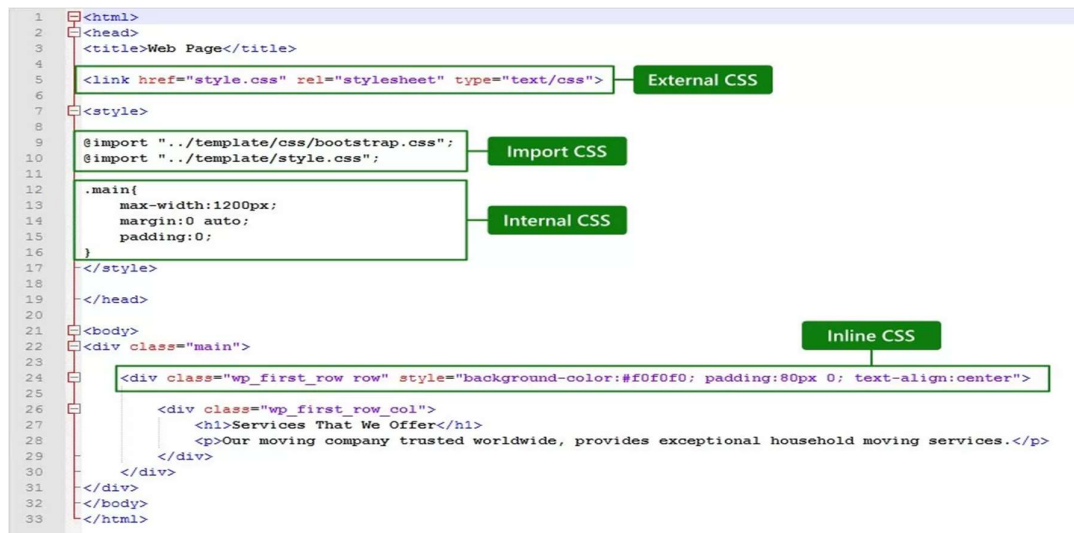
## 4.2 CSS

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.)

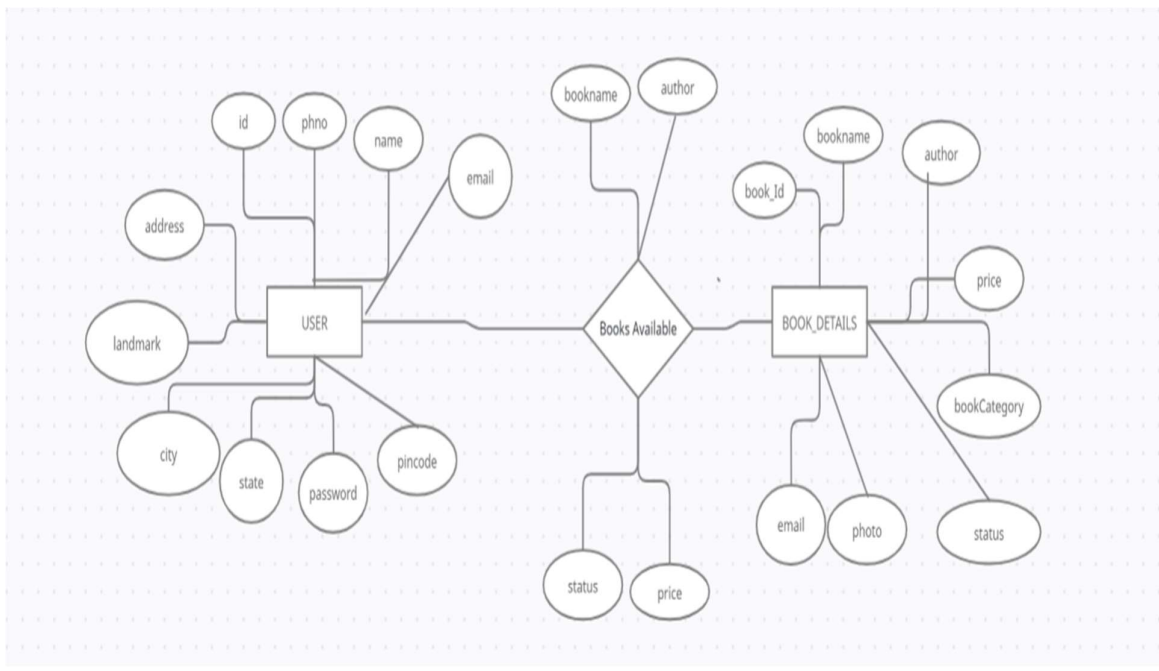
## 4.7 Apache Tomcat

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

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

[illegible]



# User

Table Name: <input type="text" value="User"/>		Schema: <b>ebook-app</b>									
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression	
 id	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
 name	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL	
 email	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL	
 password	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL	
 phno	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL	
 address	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL	
 landmark	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL	

## 6. Sample coding

```
addbooks.jsp | BookDetails... | BooksAdd.java | BookDAO.java | BookDAOImpl... | User.java | home.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"%>
2 <% pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8"%>
7 <title>User: Home</title>
8
9 <%@include file="al_sources/allcss.jsp"%>
10 <style type="text/css">
11 a {
12     text-decoration: none;
13 }
14
15 a:hover {
16     text-decoration: none;
17 }
18
19 .card:hover {
20     background-color: #f1f2f3;
21 }
22 </style>
23 </head>
24 <body>
25 <%@include file="User/nav.jsp"%>
26 <div class="container text-center">
27 <strong><h1>Hello User...</h1></strong>
28 </div>
29 <div class="container pl-3 p-1">
30 <div class="row p-5 m-4">
```

```
addbooks.jsp | BookDetails... | BooksAdd.java | BookDAO.java | BookDAOImpl... | User.java | home.jsp | RegisterServ...
31 <div class="col-md-5">
32 <a href="User/recentbooks.jsp">
33 <div class="card p-4">
34 <div class="card-body text-center">
35 <i class="fas fa-book-open fa-3x text-primary"></i><br>
36 <h4>Books</h4>
37 </div>
38 </div>
39 </a>
40 </div>
41 <div class="col-md-5">
42 <a href="Book-App/index.jsp">
43 <div class="card p-4">
44 <div class="card-body text-center">
45 <i
46     class="fa-sharp fa-solid fa-right-from-bracket fa-3x text-danger"></i><br>
47 <h4>Logout</h4>
48 </div>
49 </div>
50 </a>
51 </div>
52 </div>
53 </div>
54
55 <br><br><br><br><br><br><br>
56 <%@include file="al_sources/footer.jsp"%>
57 </body>
58 </html>
```

```

1 package com.DAO;
2
3 import java.sql.Connection;
4
5
6 public class BookDAOImpl implements BookDAO {
7     private Connection conn;
8     public BookDAOImpl(Connection con)
9     {
10         super();
11         this.conn = con;
12     }
13
14     public boolean addBook(BookDetails b){
15         boolean f=false;
16         try {
17             String qry="insert into book_details(bookId,bookname,author,price,bookCategory,status,photo,email) val
18             PreparedStatement pstmt=conn.prepareStatement(qry);
19             pstmt.setInt(1, b.getBookId());
20             pstmt.setString(2, b.getBookname());
21             pstmt.setString(3, b.getAuthor());
22             pstmt.setString(4, b.getPrice());
23             pstmt.setString(5, b.getBookCategory());
24             pstmt.setString(6, b.getStatus());
25             pstmt.setString(7, b.getPhoto());
26             pstmt.setString(8, b.getEmail());
27             int i=pstmt.executeUpdate();
28             if(i>0)
29             {
30                 f=true;
31             }
32         } catch (Exception e)
33         {}
34     }
35 }

```

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

```

1 package com.user.servlet;
2
3 import java.io.IOException;
4
5
6 @WebServlet("/register")
7 public class RegisterServlet extends HttpServlet {
8
9     /**
10      *
11      */
12     private static final long serialVersionUID = 1L;
13
14     @Override
15     protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
16         PrintWriter out = resp.getWriter();
17         try {
18             String name=req.getParameter("fname");
19             String email=req.getParameter("email");
20             String phno=req.getParameter("phno");
21             String password=req.getParameter("password");
22             String check=req.getParameter("check");
23
24             //System.out.println(name+" "+email+" "+phno+" "+password);
25             //String qry = "insert into user values(1,name,email,phno,password)";
26             User us = new User();
27             us.setName(name);
28             us.setEmail(email);
29             us.setPhno(phno);
30             us.setPassword(password);
31
32             UserDAOImpl dao=new UserDAOImpl(DBconnect.getConnection());
33             boolean f=dao.userRegister(us);
34             if(f)
35             {
36                 System.out.println("User Register Successfully");
37                 out.println("<script type='text/javascript'>");
38                 out.println("alert('User Registered Successfully');");
39             }
40         }
41     }
42 }

```

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

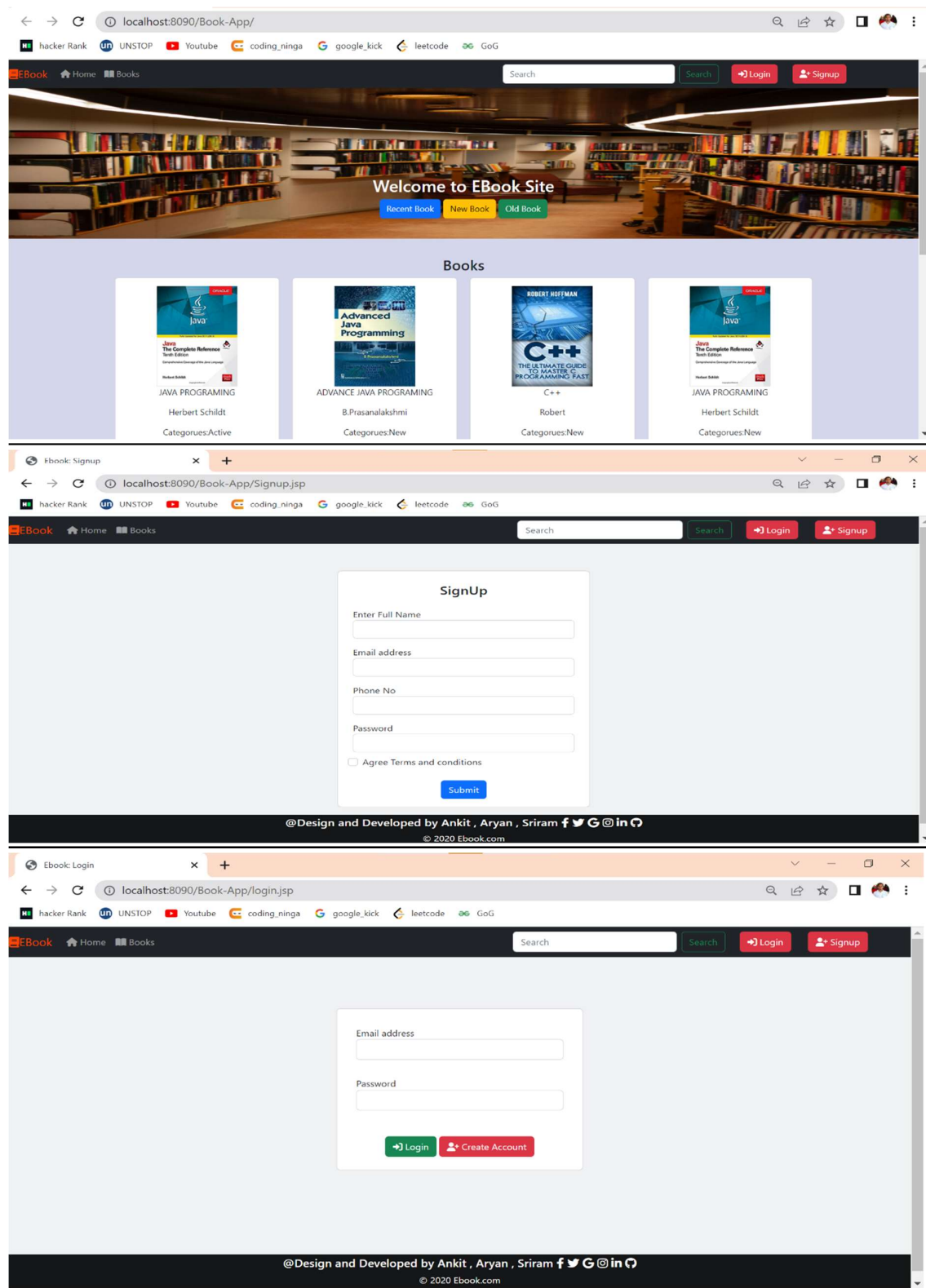
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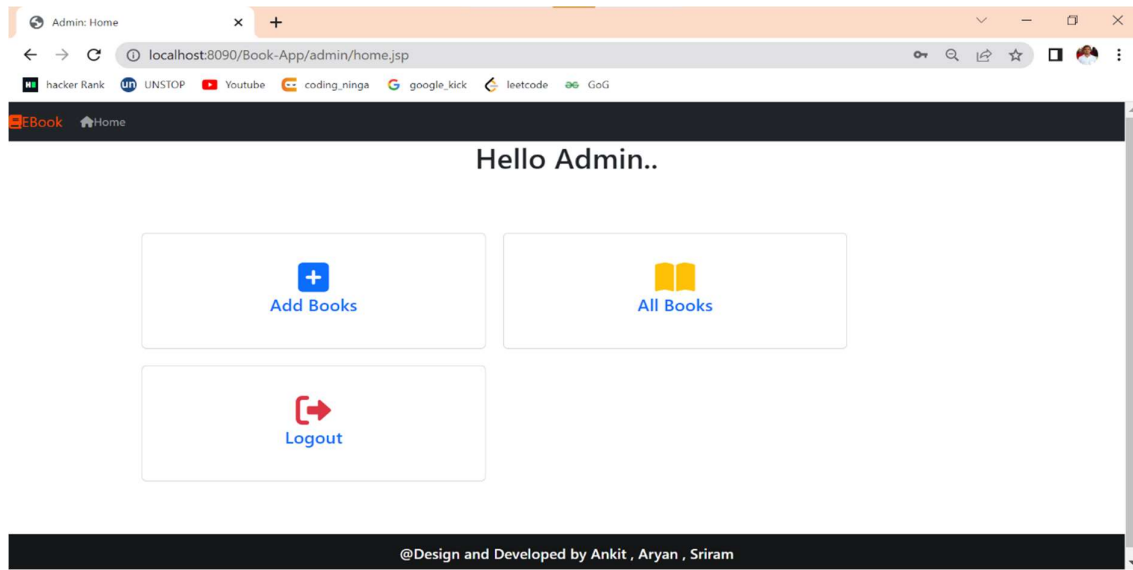
1 package com.admin.servlet;
2
3 import java.io.IOException;
4
5
6 @WebServlet("/addbooks")
7 @MultipartConfig
8 public class BooksAdd extends HttpServlet {
9
10     @Override
11     protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException
12     {
13         PrintWriter out = resp.getWriter();
14         try {
15             String bookName=req.getParameter("bname");
16             String author=req.getParameter("aname");
17             String price=req.getParameter("price");
18             String categories=req.getParameter("btype");
19             String status=req.getParameter("bstatus");
20             Part part=req.getPart("bimg");
21             String fileName=part.getSubmittedFileName();
22
23             //System.out.println(bookName+" "+author+" "+price+" "+categories+" "+status+" "+fileName);
24
25             BookDetails b = new BookDetails();
26             b.setBookname(bookName);
27             b.setAuthor(author);
28             b.setPrice(price);
29             b.setBookCategory(categories);
30             b.setStatus(status);
31             b.setPhoto(fileName);
32             b.setEmail("admin");
33             //
34             System.out.println(b);
35
36             BookDAOImpl dao=new BookDAOImpl(DBconnect.getConnection());
37
38         }
39     }
40 }

```

```
BookDetails.java  BooksAdd.java  BookDAOImpl.java  User.java  UserDao.java
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) {
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;
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## 7. Implementation Screen shot





Admin: All Books

localhost:8090/Book-App/admin/allbooks.jsp

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EBook Home

## Hello Admin...

Id	Image	Book Name	Author Name	Book Price	Book Categories	Status	Action
2		C++	Avi Silberschatz	453	recent	active	<a href="#">Edit</a>
3		Operating System	Balaji	1000	recent	active	<a href="#">Edit</a>
4		Advanced Java Programming	Balaji	1200	recent	active	<a href="#">Edit</a>
5		SQL	B-Prasanalakshmi	299	recent	inactive	<a href="#">Edit</a>

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Admin: Add Books

localhost:8090/Book-App/admin/addbooks.jsp

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EBook Home

## Add Book

Book Name

Author Name

Book Price

Book Category Name

Book Status

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User: Home

localhost:8090/Book-App/home.jsp

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EBook Home Books Contact Us

## Hello User...

 Books
  Logout

@Design and Developed by Ankit , Aryan , Sriram f t G @ in

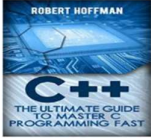
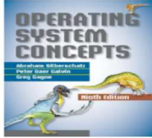

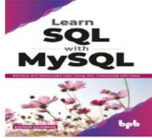
User: Recent Books

localhost:8090/Book-App/User/recentbooks.jsp

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EBook Home Books Contact Us

## Books Available....

 <p>C++</p> <p>Avi Silberschatz</p> <p>recent</p> <p>Add Cart</p> <p>View Details</p> <p>\$ 453</p>	 <p>Operating System</p> <p>Balaji</p> <p>recent</p> <p>Add Cart</p> <p>View Details</p> <p>\$ 1000</p>	 <p>Advanced Java Programming</p> <p>Balaji</p> <p>recent</p> <p>Add Cart</p> <p>View Details</p> <p>\$ 1200</p>	 <p>Learn SQL with MySQL</p> <p>B-Prasanalakshmi</p> <p>recent</p> <p>Add Cart</p> <p>View Details</p> <p>\$ 299</p>
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Contact

localhost:8090/Book-App/contact.jsp

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## 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

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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

