Project Title – Book API

**Date – 10/09/2021 Prepared by – Mayur Lipne**

**Aim** – Information of all the books are displayed on web static page using HTML and JDBC.

**Introduction** – The BOOK API has been developed in MySql, JDBC & HTML . It is a static page which display the detail of the book. This application also show author information.

**Objective** - BOOK API deals with all kind of book details along with authors, it track all the details about the books and how many author it has.

**Database Schema** – BOOK

|  |  |
| --- | --- |
| BookId | Primary Key |
| Title | Not Null |

Book-Author

|  |  |
| --- | --- |
| ID | Primary Key |
| BookId | Foreign Key |
| AuthorId | Foreign Key |

Author

|  |  |
| --- | --- |
| AuthorId | Primary Key |
| Title | Not Null |

**Language Used:-**

1.JDBC-Java Database Connectivity is used to mysql Database with Java.”Mysql connector rar” library is

Used to get Connection.

2.Jsp -Java Servlet Page

3.Html-Page Is used to Display Data

request request

Html/JSp Page

request

Response response

DataBase Sql Connector

**ER Diagram**

AuthorId

Write

Book

Author

**Static Page**-

Home Page will contain book and author details.

**Query :-**

select b.bookId,b.title,a.name ,a.authorid from book as b ,author as a ,bookauthor as i where i.bookid=b.bookid and i.authorid=a.authorid order by b.bookId;

**Jsp Code** –

*<%@ page language="java" contentType="text/html; charset=ISO-8859-1"*

*pageEncoding="ISO-8859-1"%>*

*<%@page import="java.sql.\*" %>*

*<!DOCTYPE html>*

*<html>*

*<head>*

*<meta charset="ISO-8859-1">*

*<title>Insert title here</title>*

*</head>*

*<body>*

*<table border="1">*

*<tr style="background-color:blueviolet; font-weight:bold">*

*<th>Book Id</th>*

*<th>Book Name</th>*

*<th>Author Name</th>*

*</tr>*

*<%*

*Connection con=****null****;*

*Statement st=****null****;*

*ResultSet rs=****null****;*

***try***

*{*

*Class.forName("com.mysql.jdbc.Driver");*

*con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/indicus","root","root");*

*st=con.createStatement();*

*String query="select b.bookId,b.title,a.name ,a.authorid from book as b ,author as a ,bookauthor as i where i.bookid=b.bookid and i.authorid=a.authorid ";*

*rs=st.executeQuery(query);*

***while****(rs.next())*

*{*

*%>*

*<tr bgcolor="#DEB887">*

*<td><%=rs.getInt(1) %></td>*

*<td><%=rs.getString(2) %></td>*

*<td><%=rs.getString(3) %></td>*

*</tr>*

*<%*

*}*

*}*

***catch****(Exception e)*

*{*

*}*

*%>*

*</table>*

*</body>*