//------------Create an EJB application

Create java EE => Enterprice application

Right click on EJB module => new => other => persistence => Entity class

private String title;

private String body;

//----------------generate getters and setters

Right click on EJB module => new => other => Eneterprice javaBeans => MessageDrivenBean

Select the package name ejb => select the add button next to the project destination

jms/NewMessage => to the Name select ok => finish

public class NewMessageBean implements MessageListener {

@Resource

private MessageDrivenContext mdc;

Then add those two lines

Right click the code and select insert code ? Use Entity Manager

Change the persist => save

//-------------------Then add following codes to the onMessage method

public void onMessage(Message message) {

ObjectMessage msg = null;

try {

if (message instanceof ObjectMessage) {

msg = (ObjectMessage) message;

NewsEntity e = (NewsEntity) msg.getObject();

save(e);

}

} catch (JMSException e) {

e.printStackTrace();

mdc.setRollbackOnly();

} catch (Throwable te) {

te.printStackTrace();

}

}

//-------------------------------------------------------------------

Right click the code then

EJB module => new => other => persistence => sessionBean for entity class

addAll => finish

it will create 2 classes AbstractFacade class and newsEntityFacade

//---------right click the web project => new => other => java Beans => select Sinalton => finish (package ejb)

//-------------------------add

@Singleton

@LocalBean

@WebListener

//--------------------------------

Here

public class SessionManagerBean implements HttpSessionListener {

implement the class HttpSessionListener

then resolve the error using implement all abstract methods

public class SessionManagerBean implements HttpSessionListener{

private static int counter = 0;

include the private static int counter = 0; here

counter increment and decrement here

public void sessionCreated(HttpSessionEvent se) {

counter++;

public void sessionDestroyed(HttpSessionEvent se) {

counter--;

public int getActiveSessionsCount() {

return counter;

}

Add the method to get the counter

Creating the ListNews Servlet

Create the servlet => new => servlet => package =>web => finish

Right click the servlet => insert code => Call Enterprise Bean.

In the Call Enterprise Bean dialog box, expand the NewsApp-ejb node and select

NewsEntityFacade. Click OK.

Use the Call Enterprise Bean dialog box again to inject the SessionManagerBean under the

NewsApp-war node.

In the processRequest method, add the following code to return the current

session or create a new one. request.getSession(true);

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

request.getSession(true);

Add the following code to the processRequest method to print the messages and

add a link to the PostMessage servlet. (Uncomment the code in the method if necessary.)

"</h1>");

List news = newsEntityFacade.findAll();

for (Iterator it = news.iterator(); it.hasNext();) {

NewsEntity elem = (NewsEntity) it.next();

out.println(" <b>"+elem.getTitle()+" </b><br />");

out.println(elem.getBody()+"<br /> ");

}

out.println("<a href='PostMessage'>Add new message</a>");

out.println("</body>");

Add the following code (in bold) to retrieve and print the number of users/open sessions

out.println("<a href='PostMessage'>Add new message</a>");

out.println("<br><br>");

out.println(sessionManagerBean.getActiveSessionsCount() + " user(s)reading the news.");

out.println("</body>");

Creating the PostMessage Servlet

Right-click the web module project and choose New > Servlet

Enter web for the Package name and click Finish.

Use annotations to inject the ConnectionFactory and Queue resources by adding the

following field declarations

@WebServlet(name = "PostMessage", urlPatterns = {"/PostMessage"})

public class PostMessage extends HttpServlet {

@Resource(mappedName = "jms/NewMessageFactory")

private ConnectionFactory connectionFactory;

@Resource(mappedName = "jms/NewMessage")

private Queue queue;

You now add the code to send the JMS messages by adding the following code in bold to

the processRequest method:

response.setContentType("text/html;charset=UTF-8");

// Add the following code to send the JMS message

String title = request.getParameter("title");

String body = request.getParameter("body");

if ((title != null) && (body != null)) {

try {

Connection connection = connectionFactory.createConnection();

Session session = connection.createSession(false,

Session.AUTO\_ACKNOWLEDGE);

MessageProducer messageProducer

= session.createProducer(queue);

ObjectMessage message = session.createObjectMessage();

// here we create NewsEntity, that will be sent in JMS message

NewsEntity e = new NewsEntity();

e.setTitle(title);

e.setBody(body);

message.setObject(e);

messageProducer.send(message);

messageProducer.close();

connection.close();

response.sendRedirect("ListNews");

} catch (JMSException ex) {

ex.printStackTrace();

}

}

try (PrintWriter out = response.getWriter()) {

if you get any error messages that you have to check the import statement that has bean used

it should be

import javax.jms.Connection; for the sql connection

import javax.jms.Queue; for que

Add the following lines (in bold) to the processRequest method to add the web form for

adding a message. (Uncomment the code to print the HTML if necessary.)

out.println("<h1>Servlet PostMessage at " + request.getContextPath() + "</h1>");

// The following code adds the form to the web page

out.println("<form>");

out.println("Title: <input type='text' name='title'><br/>");

out.println("Message: <textarea name='body'></textarea><br/>");

out.println("<input type='submit'><br/>");

out.println("</form>");

out.println("</body>");

Running the Project

In the Projects window, right-click the NewsApp enterprise application node and select

Properties in the pop-up menu.

Select Run in the Categories pane.

In the Relative URL textfield, type /ListNews.

Click OK.

@WebServlet(name = "EditAuthorServelet", urlPatterns = {"/EditAuthorServelet"})

public class EditAuthorServelet extends HttpServlet {

@EJB

private AuthorEntityFacade authorEntityFacade;

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\*

\* TODO output your page here. You may use following sample code.

\*/

out.println("<html>");

out.println("<head>");

out.println("<title>Edit Author</title>");

out.println("<link rel='stylesheet' type='text/css' href='css.css' media='screen'/>");

out.println("</head>");

out.println("<body>");

out.println("<div id='container'>");

out.println("<h1 align='center'>Edit Author Details</h1>");

out.println("<div id='menu'> ");

out.println("<ul>");

out.println(" <li><a href='DisplayAllBooks' title=''>HOME</a></li>");

out.println(" <li><a href='ListAuthors' title=''>List Authors</a></li>");

out.println(" </ul>");

out.println("</div>");

out.println("<div id='content'> ");

String AuthorID = request.getParameter("AuthorID");

AuthorEntity A\_elem = (AuthorEntity) authorEntityFacade.find(Long.parseLong(AuthorID));

out.println("<table>");

out.println("<form method='post' action='ListAuthors'>");

out.println("<input type='hidden' name='AuthorID' value='"+AuthorID+"'>");

out.println("<tr><td>Author Name :</td><td> <input type='text' name='AName' value='"+A\_elem.getName()+"'></td></tr>");

out.println("<tr><td>Book ID :</td><td> <input type='text' name='ABID' value='"+A\_elem.getBook().getId()+"'></td></tr>");

out.println("<tr><td><input type='submit' value='Update'/></td></tr> ");

out.println("</form>");

out.println("</table>");

out.println("<br/>");

out.println("<br/>");

out.println("<div style='clear: both;'></div>");

out.println("</div>");

out.println("<div id='footer'> <span>Copyright © 2014 | All Rights Reserved Bookstore </span> ");

out.println("</div>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

-----delete---

@WebServlet(name = "DeleteAuthorServelet", urlPatterns = {"/DeleteAuthorServelet"})

public class DeleteAuthorServelet extends HttpServlet {

@EJB

private BookEntityFacade bookEntityFacade;

@EJB

private AuthorEntityFacade authorEntityFacade;

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\*

\* TODO output your page here. You may use following sample code.

\*/

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet DeleteAuthorServelet</title>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Servlet DeleteAuthorServelet at " + request.getContextPath() + "</h1>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

String AuthorID = request.getParameter("AuthorID");

String BookID = request.getParameter("BookID");

String whatType = request.getParameter("whatType");

AuthorEntity A\_elem = (AuthorEntity) authorEntityFacade.find(Long.parseLong(AuthorID));

BookEntity B\_elem = (BookEntity) bookEntityFacade.find(Long.parseLong(BookID));

long Author\_ID=Long.parseLong(AuthorID);

authorEntityFacade.remove(A\_elem);

Set<AuthorEntity> Aet = B\_elem.getAuthors();

Iterator<AuthorEntity> iterator = Aet.iterator();

while (iterator.hasNext()) {

AuthorEntity AE = iterator.next();

if (AE.getId() == Author\_ID) {

iterator.remove();

}

}

B\_elem.setAuthors(Aet);

bookEntityFacade.edit(B\_elem);

if(whatType.equalsIgnoreCase("allBooks"))

{

response.sendRedirect("DisplayAllBooks");

}

else if(whatType.equalsIgnoreCase("author")){

response.sendRedirect("ListAuthors");

}

}

--Add Book—

@WebServlet(name = "AddBook", urlPatterns = {"/AddBook"})

public class AddBook extends HttpServlet {

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\*

\* TODO output your page here. You may use following sample code.

\*/

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet AddBook</title>");

out.println("<link rel='stylesheet' type='text/css' href='css.css' media='screen'/>");

out.println("<SCRIPT language='javascript'>");

out.println("var x=1;");

out.println("function add() {");

//Create an input type dynamically.

out.println("var txt=document.createTextNode('Author Name '+x+' : ');");

out.println("var element = document.createElement('input');");

out.println("var t=document.createElement('br');");

//Assign different attributes to the element.

out.println(" element.setAttribute('type','text');");

out.println("element.setAttribute('name','AU');");

out.println("var foo = document.getElementById('fooBar');");

//Append the element in page (in span).

out.println("foo.appendChild(t);");

out.println("foo.appendChild(txt);");

out.println("foo.appendChild(element);");

out.println("x++;");

out.println("}");

out.println("</SCRIPT>");

out.println("</head>");

out.println("<body>");

out.println("<div id='container'>");

out.println("<h1 align='center'>Add Books</h1>");

out.println("<div id='menu'> ");

out.println("<ul>");

out.println(" <li><a href='DisplayAllBooks' title=''>HOME</a></li>");

out.println(" <li><a href='ListAuthors' title=''>List Authors</a></li>");

out.println(" </ul>");

out.println("</div>");

out.println("<div id='content'> ");

out.println("<form method='post' action='AddBookOperation'>");

out.println("<table>");

out.println("<tr><td>ISBN : </td><td>: <input type='text' name='ISBN'></td></tr>");

out.println("<tr><td>Title : </td><td>: <input type='text' name='Title'></td></tr>");

out.println("<tr><td>Price : </td><td>: <input type='text' name='Price'></td></tr>");

out.println("<tr><td>Year : </td><td>: <input type='text' name='Year'></td></tr>");

out.println("<tr><td>Language : </td><td>: <input type='text' name='Language'></td></tr>");

out.println("<tr><td><b>Add any number of Authors Dynamically here : </b></td>");

out.println("<td><INPUT type='button' value='Add' onclick='add()'/></td></tr>");

out.println("<tr><td><div id='fooBar'></div></td></tr>");

out.println("<tr><td><input type='submit'></td></tr>");

out.println("</table>");

out.println("</form>");

out.println("<br/>");

out.println("<br/>");

out.println("<div style='clear: both;'></div>");

out.println("</div>");

out.println("<div id='footer'> <span>Copyright © 2014 | All Rights Reserved Bookstore </span> ");

out.println("</div>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

--addBookoperation—

@WebServlet(name = "AddBookOperation", urlPatterns = {"/AddBookOperation"})

public class AddBookOperation extends HttpServlet {

@EJB

private AuthorEntityFacade authorEntityFacade;

@EJB

private BookEntityFacade bookEntityFacade;

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\*

\* TODO output your page here. You may use following sample code.

\*/

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet AddAuthorOperation</title>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Servlet AddAuthorOperation at " + request.getContextPath() + "</h1>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String ISBN = request.getParameter("ISBN");

String Title = request.getParameter("Title");

double Price = Double.parseDouble(request.getParameter("Price"));

int Year =Integer.parseInt(request.getParameter("Year"));

String Language = request.getParameter("Language");

String[] AUList = request.getParameterValues("AU");

BookEntity bob=new BookEntity();

bob.setIsbn(ISBN);

bob.setLanguage(Language);

bob.setPrice(Price);

bob.setTitle(Title);

bob.setYear(Year);

bookEntityFacade.create(bob);

Set<AuthorEntity> AS=new HashSet<AuthorEntity>();

if(AUList != null){

for (String i : AUList){

if(!(i.equalsIgnoreCase("")))

{

AuthorEntity AE=new AuthorEntity();

AE.setName(i);

AE.setBook(bob);

authorEntityFacade.create(AE);

AS.add(AE);

}

}

bob.setAuthors(AS);

bookEntityFacade.edit(bob);

}

response.sendRedirect("DisplayAllBooks");

}

--findall—

@WebServlet(name = "DisplayAllBooks", urlPatterns = {"/DisplayAllBooks"})

public class DisplayAllBooks extends HttpServlet {

@EJB

private AuthorEntityFacade authorEntityFacade;

@EJB

private BookEntityFacade bookEntityFacade;

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

List books = bookEntityFacade.findAll();

/\* BookEntity bobj=new BookEntity();

bobj.setIsbn("eeee");

bobj.setLanguage("sinhala");

bobj.setPrice(6737);

bobj.setTitle("thrikunamalee");

bobj.setYear(1888);

bookEntityFacade.create(bobj);

AuthorEntity AE=new AuthorEntity();

AE.setName("Dilan");

AE.setBook(bobj);

authorEntityFacade.create(AE);

AuthorEntity AEE=new AuthorEntity();

AEE.setName("Guru");

AEE.setBook(bobj);

authorEntityFacade.create(AEE); \*/

/\*

\* TODO output your page here. You may use following sample code.

\*/

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet DisplayAllBooks</title>");

out.println("<link rel='stylesheet' type='text/css' href='css.css' media='screen'/>");

out.println("</head>");

out.println("<body>");

out.println("<div id='container'>");

out.println("<h1 align='center'>Display All Books in Book Catalog</h1>");

out.println("<div id='header'>");

out.println("</div>");

out.println("<div id='menu'> ");

out.println("<ul>");

out.println(" <li><a href='AddBook' title=''>Add Book</a></li>");

out.println(" <li><a href='ListAuthors' title=''>List Authors</a></li>");

out.println(" </ul>");

out.println("</div>");

out.println("<div id='content'> ");

out.println("<div style='text-align: right;'>");

out.println("<form method='post' action='SearchResult'>");

out.println("<SELECT name='elementCombo'>");

out.println("<OPTION value='Author Name'>Author</OPTION>");

out.println("<OPTION value='ISBN'>ISBN</OPTION>");

out.println("<OPTION value='Title'>Title</OPTION>");

out.println("<OPTION value='BID'>Book ID</OPTION>");

out.println("</SELECT>");

out.println("<input type='text' name='SearchInput'>");

out.println("<input type='hidden' name='Selectedval' value=''>");

out.println("<INPUT type='submit' value='Search'/></br>");

out.println("</form>");

out.println("</div>");

out.println("<table>");

out.println("<thead>");

out.println("<tr>");

out.println("<th>Book ID</th>");

out.println("<th>ISBN</th>");

out.println("<th>TITLE</th>");

out.println("<th>PRICE</th>");

out.println("<th>YEAR</th>");

out.println("<th>LANGUAGE</th>");

out.println("<th>AUTHORS</th>");

out.println("<th>Update Book</th>");

out.println("</tr>");

out.println("</thead>");

out.println("<tbody>");

for (Iterator it = books.iterator(); it.hasNext();) {

BookEntity elem = (BookEntity) it.next();

out.println(" <tr>");

out.println("<td>");

out.println(elem.getId() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println(elem.getIsbn() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println(elem.getTitle() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println(elem.getPrice() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println(elem.getYear() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println(elem.getLanguage() + "<br /> ");

out.println("</td>");

out.println("<td>");

Set<AuthorEntity> A\_Set=elem.getAuthors();

for (Iterator its = A\_Set.iterator(); its.hasNext();) {

AuthorEntity A\_elem = (AuthorEntity) its.next();

out.println("<form method='post' action='DeleteAuthorServelet'>");

out.println("<input type='hidden' name='AuthorID' value='"+A\_elem.getId()+"'>");

out.println("<input type='hidden' name='BookID' value='"+elem.getId()+"'>");

out.println("<input type='hidden' name='whatType' value='allBooks'>");

out.println(A\_elem.getName() + " <br/>");

out.println("<input type='submit' value='Delete This Author'/> ");

out.println("</form>");

}

out.println("</td>");

out.println("<td>");

out.println("<form method='post' action='EditBookOperation'>");

out.println("<input type='hidden' name='BookID' value='"+elem.getId()+"'>");

out.println("<input type='submit' value='Update'/> ");

out.println("</form>");

out.println("</td>");

out.println(" </tr>");

}

out.println("</tbody>");

out.println("</table> <br/><br/><br/><br/>");

out.println("<div style='clear: both;'></div>");

out.println("</div>");

out.println("<div id='footer'> <span>Copyright © 2014 | All Rights Reserved Bookstore </span> ");

out.println("</div>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String BookID= request.getParameter("BookID");

String NISBN= request.getParameter("ISBN");

String NTitle = request.getParameter("Title");

String NPrice = request.getParameter("Price");

String NYear = request.getParameter("Year");

String NLanguage = request.getParameter("Language");

BookEntity B\_elem = (BookEntity) bookEntityFacade.find(Long.parseLong(BookID));

B\_elem.setIsbn(NISBN);

B\_elem.setLanguage(NLanguage);

B\_elem.setPrice(Double.parseDouble(NPrice));

B\_elem.setTitle(NTitle);

B\_elem.setYear(Integer.parseInt(NYear));

bookEntityFacade.edit(B\_elem);

processRequest(request, response);

}

---editAuthor---

@WebServlet(name = "EditAuthorServelet", urlPatterns = {"/EditAuthorServelet"})

public class EditAuthorServelet extends HttpServlet {

@EJB

private AuthorEntityFacade authorEntityFacade;

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\*

\* TODO output your page here. You may use following sample code.

\*/

out.println("<html>");

out.println("<head>");

out.println("<title>Edit Author</title>");

out.println("<link rel='stylesheet' type='text/css' href='css.css' media='screen'/>");

out.println("</head>");

out.println("<body>");

out.println("<div id='container'>");

out.println("<h1 align='center'>Edit Author Details</h1>");

out.println("<div id='menu'> ");

out.println("<ul>");

out.println(" <li><a href='DisplayAllBooks' title=''>HOME</a></li>");

out.println(" <li><a href='ListAuthors' title=''>List Authors</a></li>");

out.println(" </ul>");

out.println("</div>");

out.println("<div id='content'> ");

String AuthorID = request.getParameter("AuthorID");

AuthorEntity A\_elem = (AuthorEntity) authorEntityFacade.find(Long.parseLong(AuthorID));

out.println("<table>");

out.println("<form method='post' action='ListAuthors'>");

out.println("<input type='hidden' name='AuthorID' value='"+AuthorID+"'>");

out.println("<tr><td>Author Name :</td><td> <input type='text' name='AName' value='"+A\_elem.getName()+"'></td></tr>");

out.println("<tr><td>Book ID :</td><td> <input type='text' name='ABID' value='"+A\_elem.getBook().getId()+"'></td></tr>");

out.println("<tr><td><input type='submit' value='Update'/></td></tr> ");

out.println("</form>");

out.println("</table>");

out.println("<br/>");

out.println("<br/>");

out.println("<div style='clear: both;'></div>");

out.println("</div>");

out.println("<div id='footer'> <span>Copyright © 2014 | All Rights Reserved Bookstore </span> ");

out.println("</div>");

out.println("</div>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

---Listathou---

@WebServlet(name = "ListAuthors", urlPatterns = {"/ListAuthors"})

public class ListAuthors extends HttpServlet {

@EJB

private BookEntityFacade bookEntityFacade;

@EJB

private AuthorEntityFacade authorEntityFacade;

/\*\*

\* Processes requests for both HTTP

\* <code>GET</code> and

\* <code>POST</code> methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

try {

/\*

\* TODO output your page here. You may use following sample code.

\*/

List<AuthorEntity> Aset=authorEntityFacade.findAll();

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet ListAuthors</title>");

out.println("<link rel='stylesheet' type='text/css' href='css.css' media='screen'/>");

out.println("</head>");

out.println("<body>");

out.println("<h1 align='center'>Add/List Authors</h1>");

out.println("<table class=main>");

out.println("<thead>");

out.println("<tr>");

out.println("<th>Author ID</th>");

out.println("<th>Author Name</th>");

out.println("<th>Written Book</th>");

out.println("<th>Delete Author</th>");

out.println("<th>Edit Author</th>");

out.println("</tr>");

out.println("</thead>");

out.println("<tbody>");

for (Iterator it = Aset.iterator(); it.hasNext();) {

AuthorEntity A\_elem = (AuthorEntity) it.next();

out.println(" <tr>");

out.println("<td>");

out.println(A\_elem.getId() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println(A\_elem.getName() + "<br /> ");

out.println("</td>");

out.println("<td>");

BookEntity bEN=(BookEntity)A\_elem.getBook();

out.println(bEN.getTitle() + "<br /> ");

out.println("</td>");

out.println("<td>");

out.println("<form method='post' action='DeleteAuthorServelet'>");

out.println("<input type='hidden' name='AuthorID' value='"+A\_elem.getId()+"'>");

out.println("<input type='hidden' name='BookID' value='"+A\_elem.getBook().getId()+"'>");

out.println("<input type='hidden' name='whatType' value='author'>");

out.println("<input type='submit' value='Delete'/> ");

out.println("</form>");

out.println("</td>");

out.println("<td>");

out.println("<form method='post' action='EditAuthorServelet'>");

out.println("<input type='hidden' name='AuthorID' value='"+A\_elem.getId()+"'>");

out.println("<input type='submit' value='Update'/> ");

out.println("</form>");

out.println("</td>");

out.println(" </tr>");

}

out.println("</tbody>");

out.println("</table> <br/><br/><br/><br/>");

out.println("<div class='AddAU'>");

out.println("<h3>Insert Author</h3>");

out.println("<table>");

out.println("<form method='post' action='AddAuthorOperation'>");

out.println("<tr><td>Author Name :</td> <td><input type='text' name='AName'></td></tr>");

out.println("<tr><td>Book ID : </td><td><input type='text' name='BId'></td></tr>");

out.println("<tr><td><input type='submit' value='Add Author'/></td></tr>");

out.println("</form>");

out.println("</table>");

out.println("</div>");

out.println("<div class='Link'>");

out.println("<a href='DisplayAllBooks'>Go back to Display All Books</a><br/>");

String usrID = request.getParameter("usrID").toString();

out.println(usrID);

out.println("</div>");

out.println("<br/>");

out.println("<br/>");

out.println("</body>");

out.println("</html>");

} finally {

out.close();

}

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

String AuthorID= request.getParameter("AuthorID");

String A\_NewName = request.getParameter("AName");

String A\_BID = request.getParameter("ABID");

AuthorEntity A\_elem = (AuthorEntity) authorEntityFacade.find(Long.parseLong(AuthorID));

BookEntity B\_elem = (BookEntity) bookEntityFacade.find(Long.parseLong(A\_BID));

A\_elem.setName(A\_NewName);

A\_elem.setBook(B\_elem);

authorEntityFacade.edit(A\_elem);

Set<AuthorEntity> AES=B\_elem.getAuthors();

Iterator<AuthorEntity> iterator = AES.iterator();

while (iterator.hasNext()) {

AuthorEntity AE = iterator.next();

if (AE.getId() == (Long.parseLong(AuthorID))) {

iterator.remove();

}

}

AES.add(A\_elem);

B\_elem.setAuthors(AES);

bookEntityFacade.edit(B\_elem);

processRequest(request, response);

}