# List of Pages and Description:

* **Book\_Main.html:** Displays a page which allows the user to choose to log in or register their details. Forwards the login details to **Book\_login.jsp** for validation. Signup button links to **Book\_SignUp.jsp**
* **Book\_login.jsp:** Checks username and password against **Users** table in Database. If correct, sets the username and first name from **Users** as variables for use throughout the session. Then forwards to **Book\_welcome.jsp**. If details are incorrect, the page is forwarded to **Book\_error\_Main.html**
* **Book\_error\_Main.html:** Same as the main page only with error messages should login fail.
* **Book\_SignUp.jsp:** Displays a list of fields to be entered by the user for registration. Forwards those details to **Book\_data\_input.jsp** for validation**.** Error messages on the page are triggered by conditional statements whose variables are returned should errors occur with field entries. A link is also provided to return to **Book\_Main.html**
* **Book\_data\_input.jsp:** Validates data. (Against Database if required)
  + Checks for unique username.
  + Checks password has been confirmed
  + Checks password is of length 6.
  + Checks mobile number entered is numerical only.

If all data is valid, the user is entered into the table **Users** in the Database and page is forwarded to **Book\_entry\_confirmed.html**. Otherwise page is forwarded back to **Book\_SignUp.jsp** with variables set according to errors.

* **Book\_entry\_confirmed.html:** Displays a message to the user confirming entry to the system. Redirects page to **Book\_Main.html** after 3 seconds.
* **Book\_welcome.jsp:** Presents the User with 3 options.
  + Search by entering data to fields. Data is passed to **Book\_cataquery.jsp**
  + Search by Description. A link is provided to **Book\_Search\_description.jsp**
  + View currently reserved books by user. Links to **Book\_My\_Reserved.jsp**
* **Book\_Search\_description.jsp:** Creates and displays a list of links from the **Categories** table in the Database. When a link is selected, page is forwarded to **Book\_cataquery.jsp.** using the CategoryID as a parameter for each link.
* **Book\_cataquery.jsp:** Queries the Database depending on search parameters. E.g. if only Author name is entered, then search is only by name. If link parameter is provided, list by category is displayed.
  + Search results are displayed in blocks of 5, with links for previous/next provided (if required).
  + Displays only books which have not been reserved.
  + Links are provided to reserve a book using ISBN as a parameter. Forwards to **Book\_reservationRequest.jsp**
  + Links also provided to return to **Book\_welcome.jsp** and **Book\_Search\_description.jsp** ( if the search page was called from via link).
* **Book\_reservationRequest.jsp:** Checks whether book has been reserved. If so, forwards to **Book\_welcome.jsp** with error message. If book has not been reserved, then the entry is placed in Database. Both tables Reservations and Books are updated and page is forwarded to **Book\_My\_Reserved.jsp**
* **Book\_My\_Reserved.jsp:** Displays the users currently reserved books. Displays a message if none exist. Provides link to remove a reserved book. Forwards to **Book\_Reserve\_Remove.jsp,** using the ISBN as a parameter for each link.
* **Book\_Reserve\_Remove.jsp:** Deletes record from Database table Reservations and updates Books table. Forwards to **Book\_My\_Reserved.jsp**.
* **errorPage.jsp:** General error page to display the error exception and provide link back to **Book\_welcome.jsp**
* **Login\_errorPage.jsp:** Error page to display login error exception and provide link back to **Book\_Main.html**