Douglas Goss

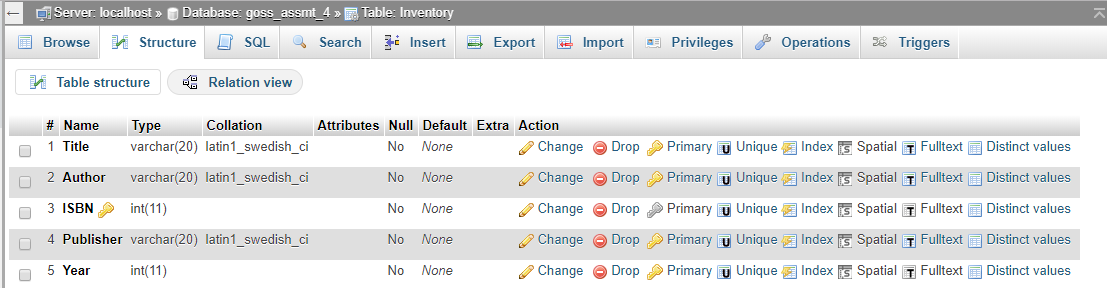
CMPS-294 Assignment 4

Book Database via SQL

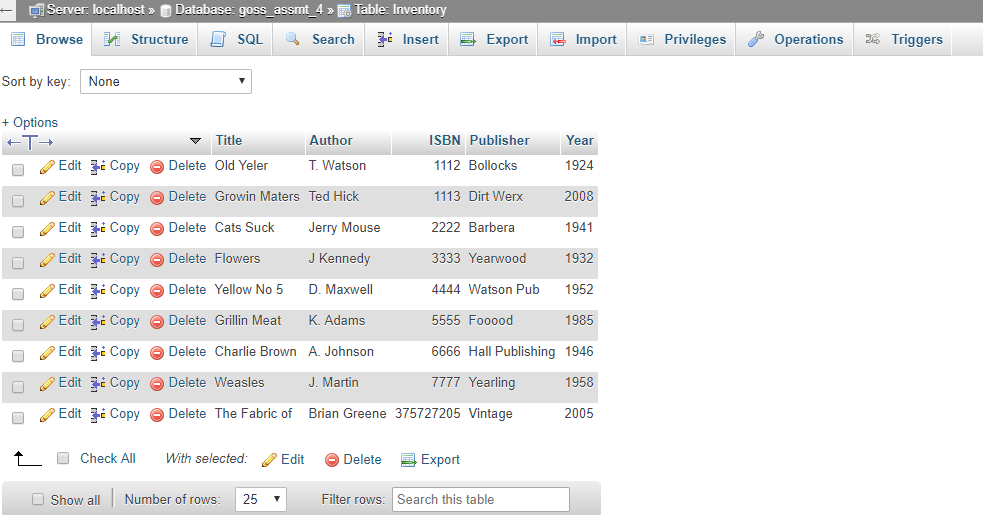
1. **Purpose**

The purpose of this database is to allow a user to enter details about a book for later purposes.

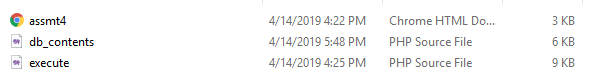
1. **Implementation**
2. Storage- the files are stored in a database in accordance with the guidelines set forth by the document **Simple MySQL DB tutorial-CK**



The present content of this database is shown below.



1. File description-



***Assmt4.html***- the initial page a user opens to begin working with the database

***Db\_contents.php***- shows the entire content of the database

***Execute.php***- contains html and php logic that allows a user to interact with the database in ways more complex than simply showing the entire contents of the database

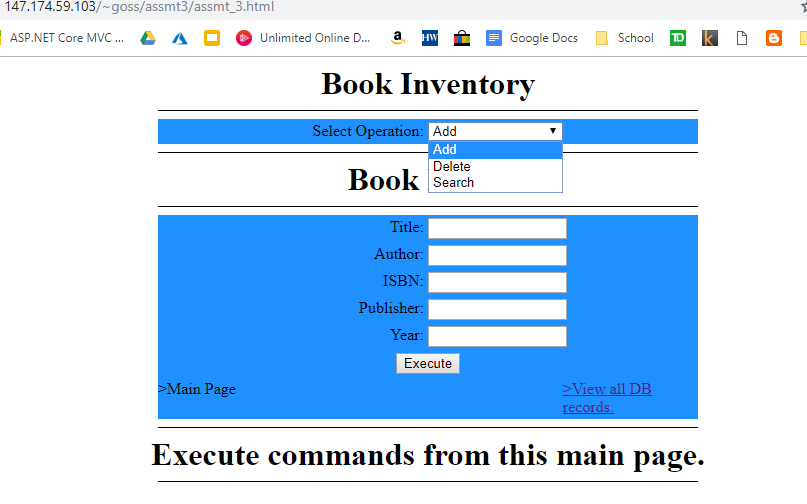
1. Usage Overview

**Select Operation-** allows a user to select between Add, Delete and Search

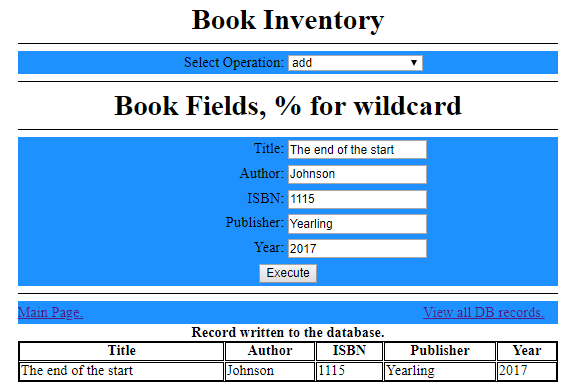
**Execute-** button which carries out the selected operation

**Main Page-** a link which allows for easy return to the main page

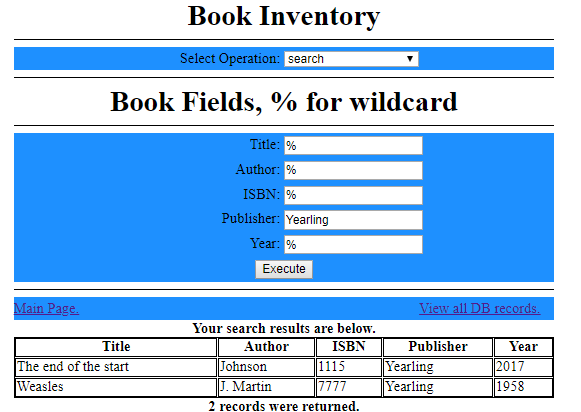
**View all DB records**- a link which runs db\_contents.php which shows all contents of the database



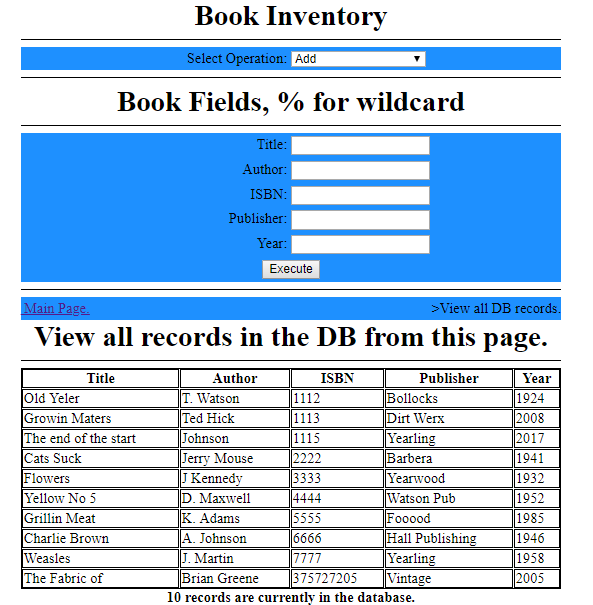
1. Walkthrough of typical usage
2. **Add** a new record with the appropriate information entered in the form and then press execute



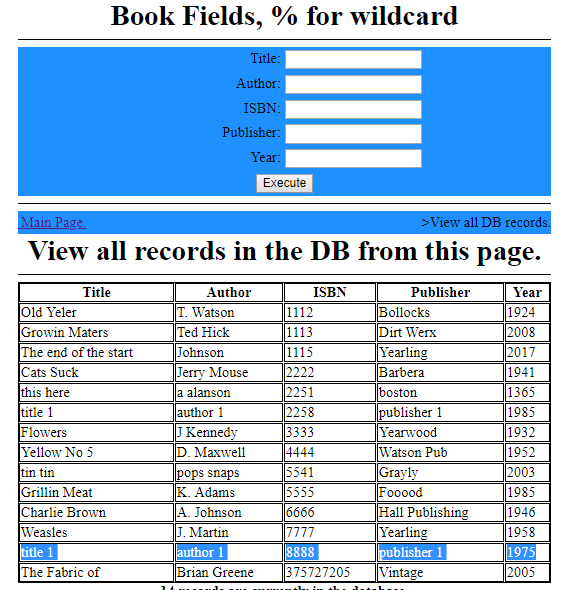
1. **Search** for a book stored in the database by entering the proper text by which to filter. In this case, I want to find all books published by **Yearling**

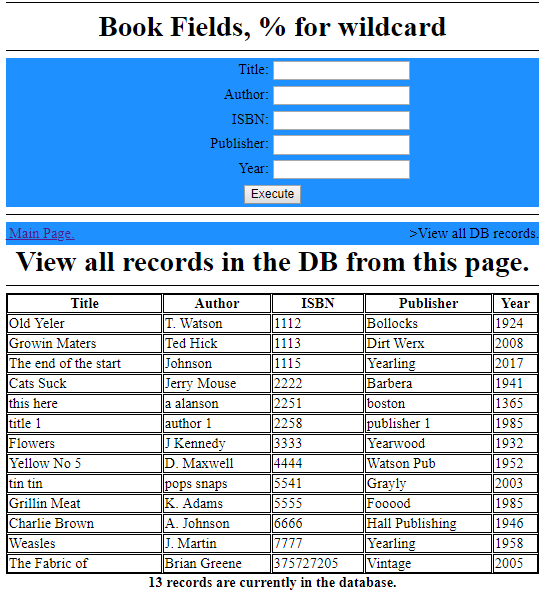


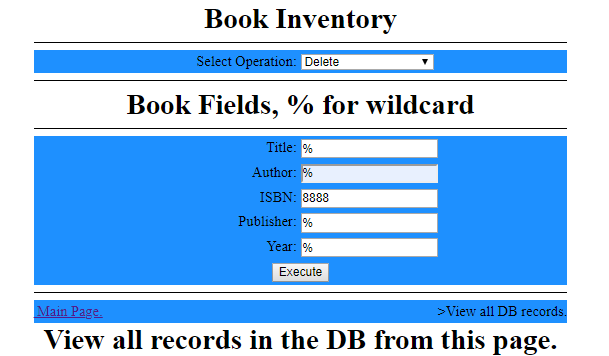
1. **Display all** books in the database by pressing “View all DB records”



1. Delete books that match the entered criteria as shown below. I will delete the record added in this example by finding it by the ISBN.







1. Code

**Execute.php**

<!DOCTYPE html>

<html>

<style>

.flex-container {

display: flex;

background-color: DodgerBlue;

margin: auto;

width: 40%;

//border: 1px solid #73AD21;

padding-top: 3px;

padding-bottom: 3px;

justify-content: center;

}

div{

border: 0px solid #73AD21;

}

.flex\_col1{

width:25%

}

.flex\_col2{

width:25%;

text-align: right

}

.flex\_col3{

width:25%

}

.flex\_col4{

width:25%

}

h1{

text-align: center;

padding-top: 0px;

padding-bottom: 0px;

margin: 0px;

background-color: white;

}

h4.message{

text-align: center;

padding-top: 0px;

padding-bottom: 0px;

margin: 0px;

background-color: white;

}

hr{

height:1px;

border:none;

color:#000;

background-color:#000;

width:40%;

text-align:center;

margin: 5 auto;

}

table{

text-align: center;

margin:0 auto;

border: 1px solid black;

width:40%;

}

td{

text-align: left;

margin:0 auto;

border: 1px solid black;

}

th{

border: 1px solid black;

}

</style>

<?php

//begin pulling in html tags

$operation=$\_GET["operation"];

$title=$\_GET["title"];

$author=$\_GET["author"];

$isbn=$\_GET["isbn"];

$publisher=$\_GET["publisher"];

$year=$\_GET["year"];

extract( $\_POST );

//$connection = "";

//$database = "goss\_assmt\_4";

//$table = "Inventory";

$select = '\*';

$connection = "";

$servername = "localhost";

$username = "goss";

$password = "w0148941";

$database = "goss\_assmt\_4";

$table = "Inventory";

//end pulling in html tags

?>

<body>

<form action="execute.php" method="GET">

<h1>Book Inventory</h1>

<hr>

<div class="flex-container">

<div class="flex\_col1"></div>

<div class="flex\_col2">Select Operation:&nbsp </div>

<div class="flex\_col3"><select name="operation" style="width: 100%">

<option value='<?php echo $operation?>' selected='selected'><?php echo $operation?></option>

<option value="add">Add</option>

<option value="delete">Delete</option>

<option value="search">Search</option>

</select>

</div>

<div class="flex\_col4"></div>

</div><hr>

<h1>Book Fields, % for wildcard</h1><hr>

<div class="flex-container">

<div class="flex\_col1"></div>

<div class="flex\_col2">Title:&nbsp;</div><div class="flex\_col3"><input type="text" name="title" value="<?php print $title; ?>" style="width: 100%"></div>

<div class="flex\_col4"></div>

</div>

<div class="flex-container"> <div class="flex\_col1"></div>

<div class="flex\_col2">Author:&nbsp;</div><div class="flex\_col3"><input type="text" name="author" value="<?php print $author; ?>" style="width: 100%"></div>

<div class="flex\_col4"></div>

</div>

<div class="flex-container">

<div class="flex\_col1"></div>

<div class="flex\_col2">ISBN:&nbsp;</div><div class="flex\_col3"><input type="text" name="isbn" value="<?php print $isbn; ?>" style="width: 100%"></div>

<div class="flex\_col4"></div>

</div>

<div class="flex-container">

<div class="flex\_col1"></div>

<div class="flex\_col2">Publisher:&nbsp;</div><div class="flex\_col3"><input type="text" name="publisher" value="<?php print $publisher; ?>" style="width: 100%"></div>

<div class="flex\_col4"></div>

</div>

<div class="flex-container">

<div class="flex\_col1"></div>

<div class="flex\_col2">Year:&nbsp;</div><div class="flex\_col3"><input type="text" name="year" value="<?php print $year; ?>" style="width: 100%"></div>

<div class="flex\_col4"></div>

</div>

<div class="flex-container">

<input type="submit" value="Execute">

</div>

</form><hr>

<div class="flex-container">

<div class="flex\_col1"><a href="assmt4.html">Main Page.</a></div>

<div class="flex\_col2"></div>

<div class="flex\_col3"></div>

<div class="flex\_col4"><a href="db\_contents.php">View all DB records.</a></div>

</div>

<table>

<th>Title</th><th>Author</th><th>ISBN</th><th>Publisher</th><th>Year</th>

<?php

//begin add record

if ($\_GET["operation"] =="add" ) {

// Create connection

$conn = new mysqli($servername, $username, $password, $database);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

// build SELECT query (specifies table as well)

$query = "INSERT INTO $table (Title, Author, ISBN, Publisher, Year) VALUES ('$title', '$author', '$isbn', '$publisher', '$year')";

if ($conn->query($query) === TRUE) {

echo "<h4 class=message> Record written to the database. </h4>";

} else {

echo "Error: " . $query . "<br>" . $conn->error;

}

//print "<h4 class=message> Record written to the database. </h4>";

print "<tr><td>$title</td><td>$author</td><td>$isbn</td><td>$publisher</td><td>$year</td></tr>";

$conn->close();

}

//end add record

?>

<?php

// begin search records

if ($\_GET["operation"] =="search" ) {

// Create connection

$conn = new mysqli($servername, $username, $password, $database);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

print "<h4 class=message> Your search results are below. </h4>";

$query= "SELECT \* FROM `Inventory` WHERE `Title` LIKE '$title' AND `Author` LIKE '$author' AND `ISBN` LIKE '$isbn' AND `Publisher` LIKE '$publisher' AND `Year` LIKE '$year'";

// Connect to MySQL

if ( !( $connection = mysql\_connect( $servername, $username, $password )))

die( "Could not connect to database" );

//print("Now open a database <br>");

// open the particular database

if ( !mysql\_select\_db( $database, $connection ) )

die( "Could not open the database" );

//print("Now query the database<br>");

// query the database

if ( !( $result = mysql\_query( $query, $connection ) ) ) {

print( "Could not execute query! <br />" );

die( mysql\_error() );

}

// fetch each record in result set

for ( $counter = 0;

$row = mysql\_fetch\_row( $result );

$counter++ ){

// build table to display results

print( "<tr>" );

foreach ( $row as $key => $value )

print( "<td>$value</td>" );

print( "</tr>" );

}

mysql\_close( $database );

print "</table>";

print "<h4 class=message>";

print $counter;

print " records were returned.";

print "</h4>";

}

//end search records

?>

<?php

// begin delete records

if ($\_GET["operation"] =="delete" ) {

// Create connection

$conn = new mysqli($servername, $username, $password, $database);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

print "<h4 class=message> Your search results are below. </h4>";

/\*$query= "DELETE FROM `Inventory` WHERE `Title` = '$title' AND `Author` = '$author' AND `ISBN` = '$isbn' AND `Publisher` = '$publisher' AND `Year` = '$year'";\*/

$query= "DELETE FROM `Inventory` WHERE `Title` like '$title' AND `Author` like '$author' AND `ISBN` like '$isbn' AND `Publisher` like '$publisher' AND `Year` like '$year'";

// Connect to MySQL

if ( !( $connection = mysql\_connect( $servername, $username, $password )))

die( "Could not connect to database" );

// open the particular database

if ( !mysql\_select\_db( $database, $connection ) )

die( "Could not open the database" );

// query the database

if ( !( $result = mysql\_query( $query, $connection ) ) ) {

print( "Could not execute query! <br />" );

die( mysql\_error() );

}

// fetch each record in result set

for ( $counter = 0;

$row = mysql\_fetch\_row( $result );

$counter++ ){

// build table to display results

print( "<tr>" );

foreach ( $row as $key => $value )

print( "<td>$value</td>" );

print( "</tr>" );

}

mysql\_close( $database );

print "</table>";

print "<h4 class=message>";

print $counter;

print " records were returned.";

print "</h4>";

}

?>

</table>

</body>

</html>

**Db\_contents.php**

**<!DOCTYPE html>**

**<html>**

**<style>**

**.flex-container {**

**display: flex;**

**background-color: DodgerBlue;**

**margin: auto;**

**width: 40%;**

**//border: 1px solid #73AD21;**

**padding-top: 3px;**

**padding-bottom: 3px;**

**justify-content: center;**

**}**

**div{**

**border: 0px solid #73AD21;**

**}**

**.flex\_col1{**

**width:25%**

**}**

**.flex\_col2{**

**width:25%;**

**text-align: right**

**}**

**.flex\_col3{**

**width:25%**

**}**

**.flex\_col4{**

**width:25%**

**}**

**h1{**

**text-align: center;**

**padding-top: 0px;**

**padding-bottom: 0px;**

**margin: 0px;**

**background-color: white;**

**}**

**h4.message{**

**text-align: center;**

**padding-top: 0px;**

**padding-bottom: 0px;**

**margin: 0px;**

**background-color: white;**

**}**

**hr{**

**height:1px;**

**border:none;**

**color:#000;**

**background-color:#000;**

**width:40%;**

**text-align:center;**

**margin: 5 auto;**

**}**

**table{**

**text-align: center;**

**margin:0 auto;**

**border: 1px solid black;**

**width:40%;**

**}**

**td{**

**text-align: left;**

**margin:0 auto;**

**border: 1px solid black;**

**}**

**th{**

**border: 1px solid black;**

**}**

**</style>**

**<body>**

**<form action="execute.php" method="GET">**

**<h1>Book Inventory</h1>**

**<hr>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Select Operation:&nbsp </div>**

**<div class="flex\_col3"><select name="operation" style="width: 100%">**

**<option value="add">Add</option>**

**<option value="delete">Delete</option>**

**<option value="search">Search</option>**

**</select>**

**</div>**

**<div class="flex\_col4"></div>**

**</div><hr>**

**<h1>Book Fields, % for wildcard</h1><hr>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Title:&nbsp;</div><div class="flex\_col3"><input type="text" name="title" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Author:&nbsp;</div><div class="flex\_col3"><input type="text" name="author" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">ISBN:&nbsp;</div><div class="flex\_col3"><input type="text" name="isbn" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Publisher:&nbsp;</div><div class="flex\_col3"><input type="text" name="publisher" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Year:&nbsp;</div><div class="flex\_col3"><input type="text" name="year" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<input type="submit" value="Execute">**

**</div>**

**<hr>**

**<div class="flex-container">**

**<div class="flex\_col1"><a href="assmt4.html">&nbsp;Main Page.</a></div>**

**<div class="flex\_col2"></div>**

**<div class="flex\_col3"></div>**

**<div class="flex\_col2">>View all DB records.</div>**

**</div>**

**</form>**

**<h1>View all records in the DB from this page.</h1><hr>**

**<table>**

**<th>Title</th><th>Author</th><th>ISBN</th><th>Publisher</th><th>Year</th>**

**<?php**

**// begin show all records**

**extract( $\_POST );**

**//$connection = "";**

**//$database = "goss\_assmt\_4";**

**//$table = "Inventory";**

**$select = '\*';**

**$connection = "";**

**$servername = "localhost";**

**$username = "goss";**

**$password = "w0148941";**

**$database = "goss\_assmt\_4";**

**$table = "Inventory";**

**// build SELECT query (specifies table as well)**

**//select and show all records from the table**

**$query = "SELECT " . $select . " FROM $table";**

**// Connect to MySQL**

**if ( !( $connection = mysql\_connect( $servername, $username, $password )))**

**die( "Could not connect to database" );**

**//print("Now open a database <br>");**

**// open the particular database**

**if ( !mysql\_select\_db( $database, $connection ) )**

**die( "Could not open the database" );**

**//print("Now query the database<br>");**

**// query the database**

**if ( !( $result = mysql\_query( $query, $connection ) ) ) {**

**print( "Could not execute query! <br />" );**

**die( mysql\_error() );**

**}**

**// fetch each record in result set**

**for ( $counter = 0;**

**$row = mysql\_fetch\_row( $result );**

**$counter++ ){**

**// build table to display results**

**print( "<tr>" );**

**foreach ( $row as $key => $value )**

**print( "<td>$value</td>" );**

**print( "</tr>" );**

**}**

**mysql\_close( $database );**

**//$ttl\_records++;**

**//}**

**print "</table>";**

**print "<h4 class=message>";**

**//print $ttl\_records;**

**print $counter;**

**print " records are currently in the database.";**

**print "</h4>";**

**?>**

**</table>**

**</body>**

**</html>**

**Assmt4.html**

**<!doctype html>**

**<html>**

**<head>**

**<meta charset="utf-8">**

**<title>assmt\_3</title>**

**</head>**

**<style>**

**.flex-container {**

**display: flex;**

**background-color: DodgerBlue;**

**margin: auto;**

**width: 40%;**

**//border: 1px solid #73AD21;**

**padding-top: 3px;**

**padding-bottom: 3px;**

**justify-content: center;**

**}**

**div{**

**//border: 1px solid #73AD21;**

**}**

**.flex\_col1{**

**width:25%**

**}**

**.flex\_col2{**

**width:25%;**

**text-align: right**

**}**

**.flex\_col3{**

**width:25%**

**}**

**.flex\_col4{**

**width:25%**

**}**

**h1{**

**text-align: center;**

**padding-top: 0px;**

**padding-bottom: 0px;**

**margin: 0px;**

**}**

**hr{**

**height:1px;**

**border:none;**

**color:#000;**

**background-color:#000;**

**width:40%;**

**text-align:center;**

**margin: 5 auto;}**

**table{**

**border: 1px solid black;**

**}**

**</style>**

**<body>**

**<form action="execute.php" method="GET">**

**<h1>Book Inventory</h1>**

**<hr>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Select Operation:&nbsp </div>**

**<div class="flex\_col3"><select name="operation" style="width: 100%">**

**<option value="add">Add</option>**

**<option value="delete">Delete</option>**

**<option value="search">Search</option>**

**</select>**

**</div>**

**<div class="flex\_col4"></div>**

**</div><hr>**

**<h1>Book Fields, % for wildcard</h1><hr>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Title:&nbsp;</div><div class="flex\_col3"><input type="text" name="title" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Author:&nbsp;</div><div class="flex\_col3"><input type="text" name="author" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">ISBN:&nbsp;</div><div class="flex\_col3"><input type="text" name="isbn" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Publisher:&nbsp;</div><div class="flex\_col3"><input type="text" name="publisher" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<div class="flex\_col1"></div>**

**<div class="flex\_col2">Year:&nbsp;</div><div class="flex\_col3"><input type="text" name="year" style="width: 100%"></div>**

**<div class="flex\_col4"></div>**

**</div>**

**<div class="flex-container">**

**<input type="submit" value="Execute">**

**</div>**

**</form>**

**<div class="flex-container">**

**<div class="flex\_col1">>Main Page</div>**

**<div class="flex\_col2"></div>**

**<div class="flex\_col3"></div>**

**<div class="flex\_col4"><a href="db\_contents.php">>View all DB records.</a></div>**

**</div>**

**<hr>**

**<h1>Execute commands from this main page.</h1><hr>**

**</body>**

**</html>**

1. File/Aid links

<http://147.174.59.103/~goss/assmt4/assmt4.html>

<http://147.174.59.103/~goss/assmt4/db_contents.php>

<http://147.174.59.103/~goss/assmt4/execute.php>