

## My Supporting Document

75-80%.

I believe that my website deserves a grade of 75-80% as I have followed all of the assignment specification, completing all the required aspects to achieve a grade of 60-70%, and done this in an effective method with very limited complications. I have also commented my code to clarify any difficult to understand areas and to understand my methods at a simple glance.

Even though I have only completed the aspects for a maximum grade of 70% I have also managed to implement the use of a DAO and have used Java Beans within my website effectively. As stated in the assignment specifications:

*'Use of jsp and patterns at lower grade bands will draw further marks and may allow for grade boundaries to be crossed'*

Therefore, I am requesting a grade of 75-80%.

My website works in a very simple and straightforward way; you will be welcomed onto the index page populated with links to three different search criteria and a link to display all of the available albums. The most interesting of these links is the category search link as I have used a servlet to populate the drop down list dynamically.

```
//      Populates the drop down list with all of the categories
for (int x = 0; x < categories.size(); x++) {
    Cat = categories.get(x);
    System.out.println(Cat);
    out.println("<OPTION value = \"" + Cat + "\">" + Cat + "</OPTION>");
}
```

The servlets that are interleaved together based around the current order Purchase, Remove, Basket etc. all have a system implemented to display a message to the user if anything goes wrong or, in the case of the basket, if the basket is empty.

```
} else {
    out.println("<h5>Current Total = \u00A3" + runningCost + "</h5>");
    out.println("<h3>Basket is empty.....</h3>");
    out.println("<div id = \"servLinks\"><br><br><a href = \"index.html\">Let's Go Home</a></div>");

    out.println("</body></html>");
}
```

The checkout HTML and servlet items are designed to allow the user to enter delivery details, which are then added to a new table, placed within the database with an auto incremented unique user Id. The user Id is then given back to the servlet and used within the orders table within the database, which is responsible for adding orders to the correct database table and attaching that specific order to a specific user. The order number for this is not generated within the database but is generated using a random number generator that, I feel, may lead to complications if the number generated is a duplicate or another order number. I do have the coding skills to ensure that this will not happen however, I do not have the time to implement this. I would overcome this issue by adding a dynamic array to the servlet that stores all of the previously generated numbers and an algorithm to compare any number generated to all of the cells within the dynamic array and generate another number if there is a match.

```
// This section is used to create random order numbers
Random rand = new Random();
int orderNumber = rand.nextInt(100000) + 1;
```

The instructions for using my website are as follows:

Run the index.html file,

localhost/Congo\_14024149/index.html

Select the appropriate link to search for albums,

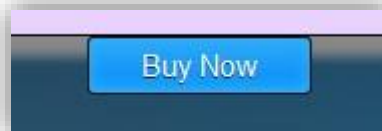
Click **HERE** For All Albums  
Click **HERE** To Select A Category  
Click **HERE** To Select A Price Range  
Click **HERE** To Select An Artist

- Click on the

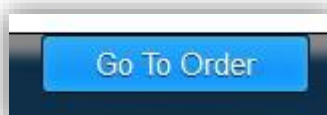
album name you are interested in purchasing,

The Hollies	Greatest Hits	Rock	thehollies_greatesthits.gif	12	£13.99
-------------	---------------	------	-----------------------------	----	--------

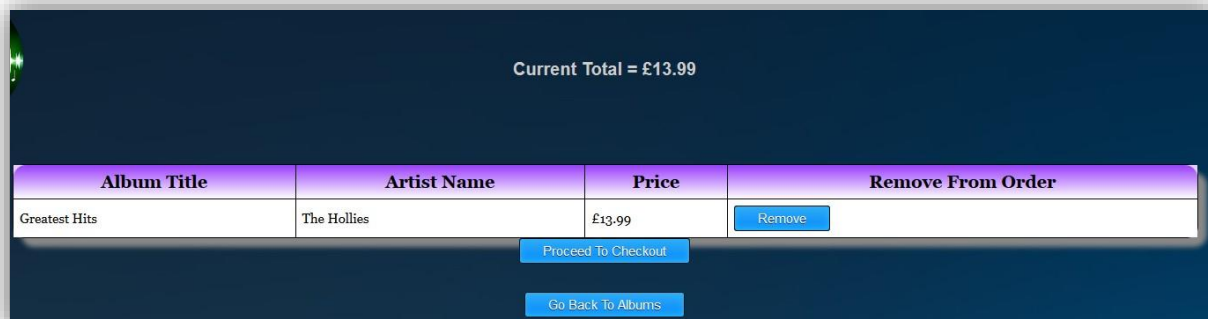
- Click on the 'Buy Now' button at the bottom of the table, this will bring up the interim basket page showing you the album that has been added to your order. You are given a choice of either proceeding to the checkout or going back to the albums, if you wish to purchase more.



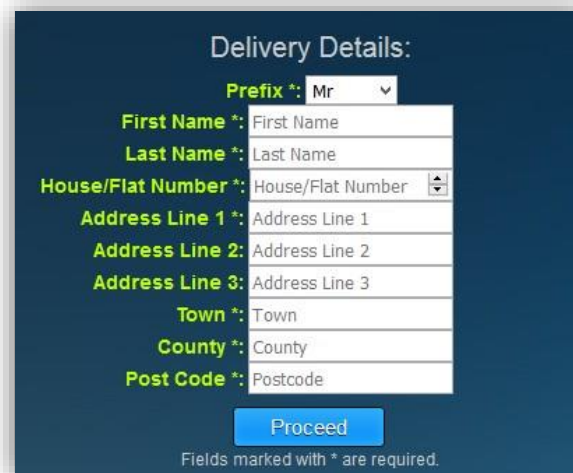
- Click on the 'Go To Order' button



- On this page you have the option to proceed to the checkout or to return to the albums page you were just on to add another album to the order.



- On the checkout page, you are required to input your delivery details. Some are required some



**Delivery Details:**

Prefix \*: Mr

First Name \*: First Name

Last Name \*: Last Name

House/Flat Number \*: House/Flat Number

Address Line 1 \*: Address Line 1

Address Line 2 \*: Address Line 2

Address Line 3 \*: Address Line 3

Town \*: Town

County \*: County

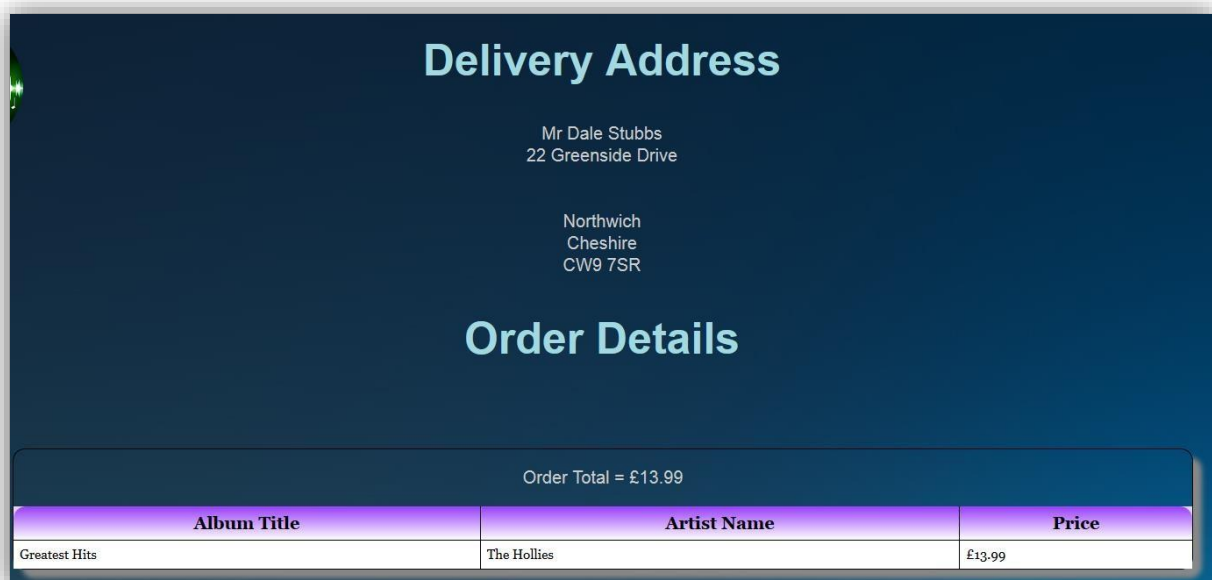
Post Code \*: Postcode

**Proceed**

Fields marked with \* are required.

are not a '\*' indicates the required fields.

- This information is then processed and displayed back to the user with their order details.



**Delivery Address**

Mr Dale Stubbs  
22 Greenside Drive

Northwich  
Cheshire  
CW9 7SR

**Order Details**

Order Total = £13.99

Album Title	Artist Name	Price
Greatest Hits	The Hollies	£13.99

- The session variables are then reset allowing a new order to be processed.

```
// Running cost is reset to allow for the next order to be processed
Pre_Checkout.runningCost = 0;
// Current order array list is reset ready for the next order to process.
albumArray.clear();
session.setAttribute("currentOrder", albumArray);
```

As requested each and every page on my website has a link back to the index. Also I have designed my own Congo logo and have used that as a secondary index page link.



# Screen Shots

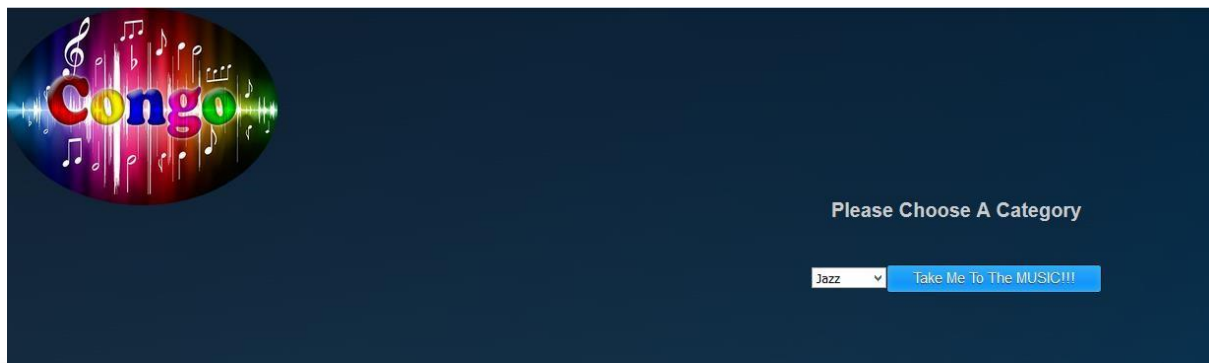
## Home Page



## Album Listing

Artist Name	Album Title	Category	Image Name	Number Of Tracks	Price
Rakim	18th Letter	Hip-Hop	rakim_18thletter.gif	12	£10.99
De La Soul	3 Feet High n Rising	Hip-Hop	delasoul_3feethighnrisin.gif	24	£10.99
Mozart	Amadeus	Classical	mozart_amadeus.gif	12	£12.99
Jimmy Hendrix	Are U Experienced	Rock	hendrix_experienced.gif	16	£15.99
Pink Floyd	Atom Heart Mother	Rock	pinkfloyd_atomheartmother.gif	13	£10.99
Backstreet Boys	Backstreet Boys	Pop	backstreet_boys.gif	12	£13.99
John Coltrane	Bags and Trane	Jazz	johncoltrane_bagsandtrane.gif	8	£12.99
Cher	Believe	Pop	cher_believe.gif	9	£15.99
Miles Davis	Birth of the Cool	Jazz	milesdavis_birthofcool.gif	12	£12.99
Bruce Springsteen	Born In The U.S.A.	Rock	brucepringsteen_bornintheusa.gif	12	£12.99
Bruce Springsteen	Born To Run	Rock	brucepringsteen_bornatorun.gif	8	£11.99
Kenny G	Breathless	Jazz	kennyg_breathless.gif	13	£11.99
Men At Work	Business As Usual	Pop	menatwork_business.gif	10	£9.99
Shania Twain	Come On Over	Country	shaniatwain_comeonover.gif	16	£14.99
Glenn Gould - Bach	Concertos 1-7	Classical	bach_piano157.gif	9	£15.99
Motley Crue	Greatest Hits	Rock	motleycrue_greatesthits.gif	17	£15.99
The Hollies	Greatest Hits	Rock	thehollies_greatesthits.gif	12	£13.99
Dizzy Gillespie	Groovin High	Jazz	dizygillespie_groovinhigh.gif	13	£12.99
The Judds	Heartland	Country	thejudds_heartland.gif	9	£15.99
Offspring	Ignition	Rock	offspring_ignition.gif	11	£12.99
Nas	Illmatic	Hip-Hop	nas_ilmatic.gif	10	£11.99
Nas	It Was Written	Hip-Hop	nas_itwaswritten.gif	13	£10.99
Najee	Just An Illusion	Jazz	najee_justanillusion.gif	13	£11.99
Beastie Boys	Licensed To Ill	Hip-Hop	beastieboys_licensedtoill.gif	13	£11.99
Tribe Called Quest	Low End Theory	Hip-Hop	tribecalledquest_lowendtheory.gif	14	£9.99

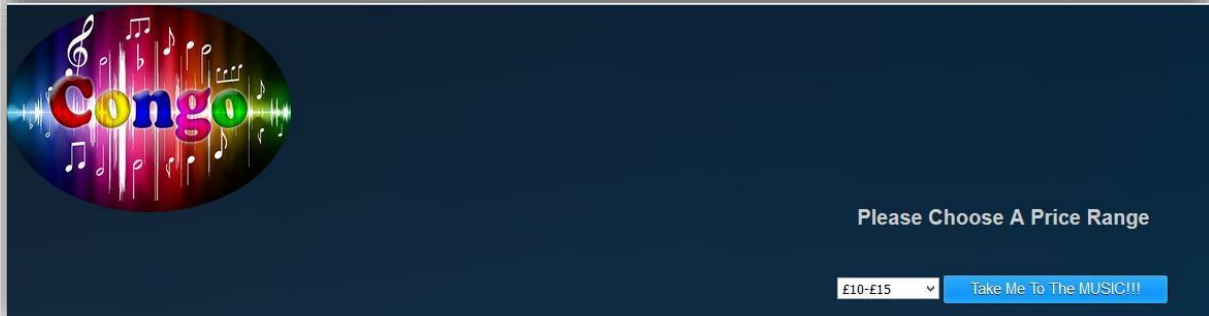
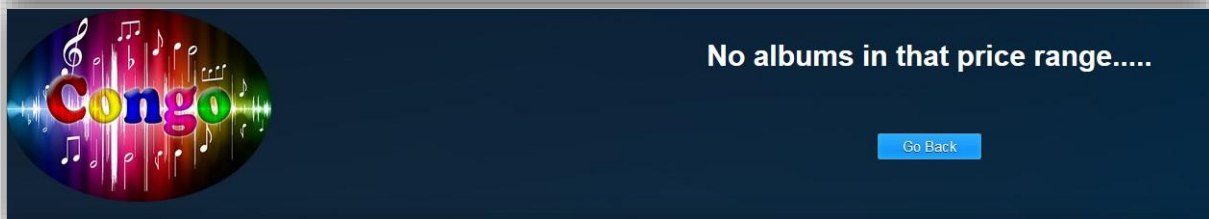
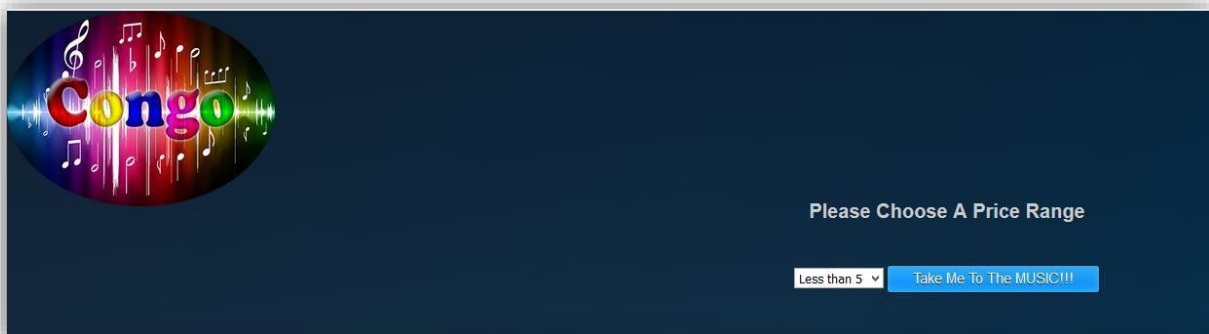
## Category Listing




The screenshot shows the Congo application interface displaying a table of albums. The table has six columns: Artist Name, Album Title, Category, Image Name, Number Of Tracks, and Price. The data is as follows:

Artist Name	Album Title	Category	Image Name	Number Of Tracks	Price
Dizzy Gillespie	Groovin' High	Jazz	dizygillespie_groovinhigh.gif	13	£12.99
John Coltrane	Bags and Trane	Jazz	johncoltrane_bagsandtrane.gif	8	£12.99
Kenny G	Breathless	Jazz	kennyg_breathless.gif	13	£11.99
Miles Davis	Birth of the Cool	Jazz	milesdavis_birthofcool.gif	12	£12.99
Najee	Just An Illusion	Jazz	najee_justanillusion.gif	13	£11.99

## Price Range Listing








Artist Name	Album Title	Category	Image Name	Number Of Tracks	Price
Mahler	<u>Symphonie no.1</u>	Classical	mahler_symphonie1.gif	8	£13.99
Mozart	<u>Amadeus</u>	Classical	mozart_amadeus.gif	12	£12.99
Clint Black	<u>Nothing But Taillights</u>	Country	clintblack_taillights.gif	12	£10.99
George Strait	<u>One Step At A Time</u>	Country	georgestrait_onestep.gif	9	£11.99
Shania Twain	<u>Come On Over</u>	Country	shaniatwain_comeonover.gif	16	£14.99
Shania Twain	<u>The Woman In Me</u>	Country	shaniatwain_thewomaninme.gif	12	£13.99
Willie Nelson	<u>Xmas Music</u>	Country	willienelson_xmas.gif	10	£11.99
Beastie Boys	<u>Licensed To Ill</u>	Hip-Hop	beastieboys_licensedtoill.gif	13	£11.99
De La Soul	<u>3 Feet High n Rising</u>	Hip-Hop	delasoul_3feethighnrising.gif	24	£10.99
L.L. Cool J	<u>Radio</u>	Hip-Hop	llcoolj_radio.gif	10	£10.99
Nas	<u>Illmatic</u>	Hip-Hop	nas_ilmatic.gif	10	£11.99
Nas	<u>It Was Written</u>	Hip-Hop	nas_itwaswritten.gif	13	£10.99
Rakim	<u>18th Letter</u>	Hip-Hop	rakim_18thletter.gif	12	£10.99
Dizzy Gillespie	<u>Groovin High</u>	Jazz	dizygillespie_groovinhigh.gif	13	£12.99
John Coltrane	<u>Bags and Trane</u>	Jazz	johncoltrane_bagsandtrane.gif	8	£12.99
Kenny G	<u>Breathless</u>	Jazz	kenny_breathless.gif	13	£11.99
Miles Davis	<u>Birth of the Cool</u>	Jazz	milesdavis_birthofthecool.gif	12	£12.99
Najee	<u>Just An Illusion</u>	Jazz	najee_justanillusion.gif	13	£11.99
Backstreet Boys	<u>Backstreet Boys</u>	Pop	backstreet_boys.gif	12	£13.99
Blondie	<u>No Exit</u>	Pop	blondie_noexit.gif	14	£14.99
Wham	<u>Makes It Big</u>	Pop	wham_makeitbig.gif	8	£14.99
Bruce Springsteen	<u>Born To Run</u>	Rock	brucepringsteen_bornTORun.gif	8	£11.99
Bruce Springsteen	<u>Born In The U.S.A.</u>	Rock	brucepringsteen_bornintheusa.gif	12	£12.99
Erie Clapton	<u>Unplugged</u>	Rock	clapton_unplugged.gif	14	£11.99
Nine Inch Nails	<u>Pretty Hate Machine</u>	Rock	nin_prettyhatemachine.gif	10	£14.99


See What You've Ordered  
Let's Go Home

## Artist Listing




Please Type Name Of An Artist

12105



No albums for that artist.....



Please Type Name Of An Artist

Spice



Artist Name	Album Title	Category	Image Name	Number Of Tracks	Price
Spice Girls	Spice	Pop	spice_girls.gif	10	£9.99

## Album Information Listing



Artist = Spice Girls  
Album = Spice


Track Number	Track Title	Duration
1	Wannabe	2:20
2	Say You'll Be There	2:30
3	2 Become 1	2:50
4	Love Thing	2:10
5	Last Time Lover	2:20
6	Mama	2:35
7	Who Do You Think You Are	2:51
8	Something Kinda Funny	2:17
9	Naked	1:50
10	If U Can't Dance	1:50

[Buy Now](#)

[See What You've Ordered](#)

[Let's Go Home](#)

## Purchase Page




The Following Album Has Been Added To Your Order

Album Title	Artist Name	Price
Spice	Spice Girls	£9.99

[Go To Order](#)



## Order Page




Current Total = £9.99

Album Title	Artist Name	Price	Remove From Order
Spice	Spice Girls	£9.99	<a href="#">Remove</a>

[Proceed To Checkout](#)

[Go Back To Albums](#)

## Checkout Page



# Checkout

Delivery Details:

Prefix \*:

First Name \*:

Last Name \*:

House/Flat Number \*:

Address Line 1 \*:

Address Line 2 \*:

Address Line 3 \*:

Town \*:


County \*:

Post Code \*:

[Proceed](#)

Fields marked with \* are required.

## Order Summary Page



### Delivery Address

Mr Dale Stubbs  
22 Greenside Drive

Northwich  
Cheshire  
CW9 7SR

### Order Details

Order Total = £9.99

Album Title	Artist Name	Price
Spice	Spice Girls	£9.99

[Let's Go Home](#)

## SQL Tables

```
1 • select * from users;
```

**Result Grid** | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: I A

	userID	prefix	firstname	surname	houzenumber	address1	address2	address3	town	county	postcode
▶	2	Mr	Dale	Stubbs	22	Greenside Drive			Northwich	Cheshire	CW9 7SR
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
1 • select * from orders;
```

**Result Grid** | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: I A

	order_id	artist_name	title	price	user_id	orderNumber
▶	2	Spice Girls	Spice	9.99	2	13419
*	NULL	NULL	NULL	NULL	NULL	NULL