**Final Project Due Date:** December 14, 2016

**Name of Application:** Closet Companion

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**Access Information:**

URL: <http://cscie60.dce.harvard.edu/~eabernat/fpcff/index.cfm>

User: user / super1

Admin: admin / super1

Non-user (no entries in database) none / super1

The admin has the most exhaustive database, user has a smaller subset and none has no entries in the database.

**Description of the Project:**

The purpose of the application is for the shoe and handbag enthusiast to organize their collection so that they can carry it around digitally. In doing so, while shopping, or putting together an outfit at home they can scroll through their collection and visually see what they have already that matches what they are wanting to buy and/or wear. A lot of times shoe enthusiasts find shoes that they have never worn or haven’t worn in a long time because they have been pushed to the back of the closet and are out of sight. This app will help those who have crammed their collections in a small space and have to tear their closet apart to find a forgotten shoe or handbag to match an outfit. It will also help them to plan for spring cleaning so they can see what can be donated or perhaps sold on eBay since they haven’t worn or carried it in a while and no longer have a use for it.

Accessing the database you are prompted to login where you will then reach a menu of options. On the menu you can search for shoes by color, brand, type and name. You can also search for handbags by color, brand and name. In addition to searching, you can add shoes and handbags or just see all of your shoes and handbags that you own. Each shoe or handbag can be saved with an image that corresponds to a URL location of the image on the World Wide Web. Each search has a form that queries for the items in the database that are owned by the user that is logged in. For example when I search for a shoe by brand name, the query will look in by tbShoeItem table and my tbUserShoes table. The query will return to me the shoes matching the shoebrand I selected and the shoeid in the tbShoeItem table matching the uname of the user currently logged in. This is how the query is done for all searches on brands, colors, types and names for the shoes and handbags. If a user has no shoes or handbags in the database, then the search forms will inform the user that they must first add shoes into the database in order to perform any searches.

The report form of all searches allows the user to update the item or delete the item. The update query calls and update on the item table and sets all the variables to the new values. The delete query doesn’t delete any items from the item table, it simply removes the uname and id entry from the tbUserShoes or tbUserHandbags table.

The add forms allow the users to add handbags and shoes into the database table. All values are required in the add form with the exception of an image URL. The add query adds the item to the tbShoeItem or tbHandbagItem table and then adds the owner of the item in the tbUserShoes or tbUserHandbags table with the uname and shoeId/handbagId entry that references the item table. The add is done via stored procedure. There are two stored procedures for the add. One is add\_shoe and the other is add\_handbag. When a user adds a new item to the database the stored procedure is called passing in all the attributes (color, type, name, brand, imageURL and the username) as parameters to the procedure. The procedure then inserts the item into either the tbShoeItem table or the tbHandbagItem table. This triggers the sequences that generate the shoeId and handbagId numbers (TR\_new\_shoe\_IN and TR\_new\_handbag\_IN). After the item is added to the item table another insert is then performed on the tbUserHandbags or tbUserShoes table. This insert adds the uname and shoeId/handbagId to the table.

The application includes forms and reports to both enter information in the database and to allow reporting.

The following is a list of forms:

1. Shoes (add, update, delete).
2. Search shoes (color)
3. Search shoes (brand)
4. Search shoes (name)
5. Search shoes (type)
6. Handbags (add, update, and delete).
7. Search handbags (name)
8. Search handbags (brand)
9. Search handbags (color)

The application will include the following reports:

1. All shoes in the collection.
2. All shoes in the collection that are a certain color.
3. All shoes in the collection that are a particular brand.
4. All shoes of a particular category (i.e. heels, sandals, boots, etc…).
5. All shoes matching a certain name.
6. All handbags in the collection.
7. All handbags in the collection that are a certain color.
8. All handbags in the collection that are a particular brand.
9. All handbags in the collection matching a name.

## RECORD DIAGRAMS

tbShoeItem

tbHandbagItem

tbUserHandbags

Basic

tbUserShoes

Basic

tbUsers

Basic

Require

has

hass

Require

1

1

M

M

1

1

M

M

tbShoeTypes

Associative

tbColors

Associative

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| username | first name | last name | password | userview |
| **PK** |  |  |  |  |
| eabern2 | Erica | Abernathy | Super1 | all |
| alexis.amb | Alexis | Boykin | Super2 | all |
| dshemelle | Shemelle | Davis | Super3 | all |
| walkedith | Edith | Walker | Super4 | all |
| tmurray | Tiffani | Murray | Super5 | all |

tbUserShoes

|  |  |
| --- | --- |
| username | Shoe id |
| **PK** | |
| **FK** | **FK** |
| eabern2 | 100 |
| eabern2 | 101 |
| dshemelle | 102 |
| dshemelle | 103 |
| alexis.amb | 104 |

tbShoeItem

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Shoe Id | shoe name | brand | type | color | size | image |
| **PK** |  |  |  |  |  |  |
| 100 | Nova | Donald J Pliner | Knee boot | orange | 9 | Image1.jpg |
| 101 | Basper Gladiator | Sigerson Morrison | Sandal | Brown | 9 | Image2.jpg |
| 102 | Harlee | coach | Pump | Brown | 7 | Image3.jpg |
| 103 | Harlee | Coach | pump | Black | 7 | Image4.jpg |
| 104 | Nova | Donald J Pliner | Boot | Brown | 10 | Image5.jpg |

tbUserHandbags

|  |  |
| --- | --- |
| username | handbag id |
| **PK** | |
| **FK** | **FK** |
| eabern2 | 50 |
| eabern2 | 51 |
| eabern2 | 52 |
| eabern2 | 53 |
| eabern2 | 54 |

tbUserHandbags

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| handbag Id | handbag name | brand | color | image |
| **PK** |  |  |  |  |
| 50 | All T | Tory Burch | brown | Image1.jpg |
| 51 | Alix | Tom Ford | white | Image2.jpg |
| 52 | Carine Pleats | Tom Ford | black | Image3.jpg |
| 53 | Brett | Vince Camuto | gray | Image4.jpg |
| 54 | Devon | Michael Kors | white | Image5.jpg |

I also had two reference tables one for colors and one for types of shoes.

**A listing of bugs:**

1. Logout link visible on login page

2. Searching by name doesn’t disregard upper and lower case

**Special Features:**

I implemented search features for all of the database and in many different ways. A user can search for specific items via means of color, type, brand, and name.