

# Web Programming Project

Web Programming Project

### Table of Contents

Introduction	2
Design of the application	2
Test Data	
Summary	
References	

#### Introduction

The SMT Movie Rental needs a system for its clients to search movies online. The project task to develop an online movie search application for customers to search movie availability, cost, find popular movies. There are around 2300 movies available at SMT Movie Rental and currently all those movie details are stored in a MS-Excel file which needs to be used in the application.

#### **Proposed solution**

Develop a web site which customers can access movie information anytime of the day. The website has client-side webpage to display relevant details and a server-side webpage to process online request from the client. The website will develop using php and html. All the data will be stored in a MySQL database. According to the client search criteria server-side program will process the request according to the predefined queries and display all the details in the page as a table format.

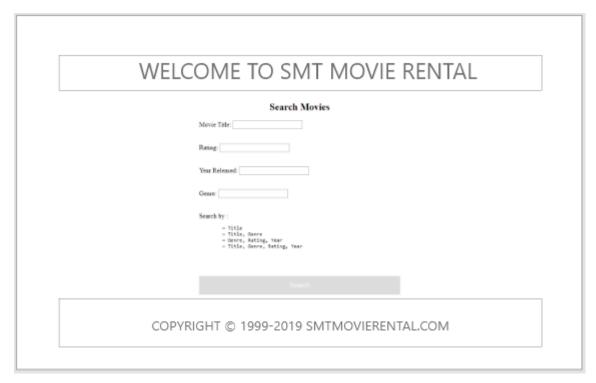
Movies can be searched using Movie title, rating of the movie, year released or Genre. Client can mix and match those criteria's to find the movie or movies of their choice. Client need not to enter the whole name of the movie only a part of it would be enough, and application will display all the possible movies with matching name. So, it is user-friendly for clients to search their favourite movies. Furthermore, application will have a drop-down menu to select options as they needed to make the search much easier for customers.

There is a page to display 10 most popular movies, this information gathers from the search records. There is a separate table to store tile and the count of times a movie search. Page will display only 10 most searched movies.

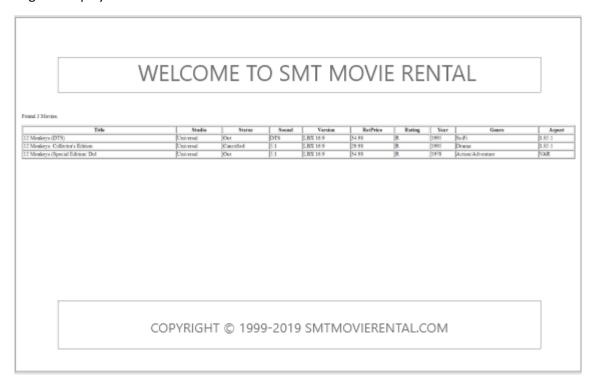
## Design of the application



#### Move search page:



#### Page to Display search movie information:



Page to display 10 most popular movies:



#### Database Design

Data stored in an Excel file, to get the data to the sql database first it need to be converted to a comma delimited csv file. Then Create a database called "MovieRentals", and a table to store movies.

```
DROP DATABASE IF EXISTS MovieRentals;
CREATE DATABASE MovieRentals;
USE MovieRentals;
CREATE TABLE Movies (
    MID INTEGER NOT NULL AUTO INCREMENT,
    Title VARCHAR(32) NOT NULL,
    Studio VARCHAR (32) NOT NULL,
    Status VARCHAR (32) NOT NULL,
    Sound VARCHAR (32),
    Version VARCHAR(32),
    RetPrice DECIMAL(6,2) NOT NULL,
    Rating VARCHAR(32),
    Year INTEGER,
    Genre VARCHAR (32),
    Aspect VARCHAR (32),
    PRIMARY KEY (MID)
);
```

```
C:\Users\P249400\Documents\xampp\mysql\bin>mysql -uroot -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 10.1.37-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> DROP DATABASE IF EXISTS MovieRentals;
Query OK, 1 row affected (0.64 sec)
MariaDB [(none)]> CREATE DATABASE MovieRentals;
Query OK, 1 row affected (0.00 sec)
MariaDB [(none)]> USE MovieRentals;
Query OK, 0 rows affected (0.02 sec)
```

As the next step transfer data stored in csv file to the sql table called "Movies". Following sql syntax is used to achieve that task.

```
LOAD DATA INFILE 'C:/Users/P249400/Documents/WebPro/Movies.csv'
INTO TABLE Movies
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

```
MariaDB [MovieRentals]> LOAD DATA INFILE 'C:/Users/P249400/Documents/xampp/htdoc

    Movies.csv'
    NTO TABLE Movies
    FIELDS TERMINATED BY ','
    LINES_TERMINATED BY '\n'

-/ LIMES TERMINATED BY AN

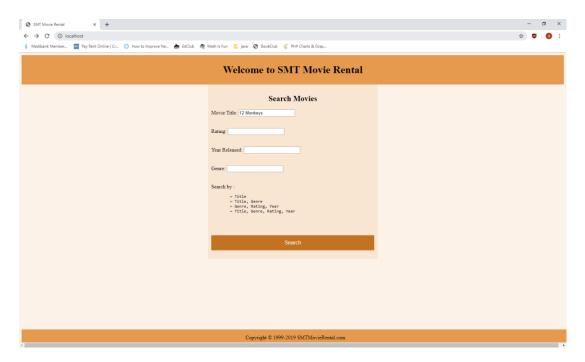
-> IGNORE 1 ROWS;

Query OK, 2298 rows affected, 523 warnings (0.03 sec)

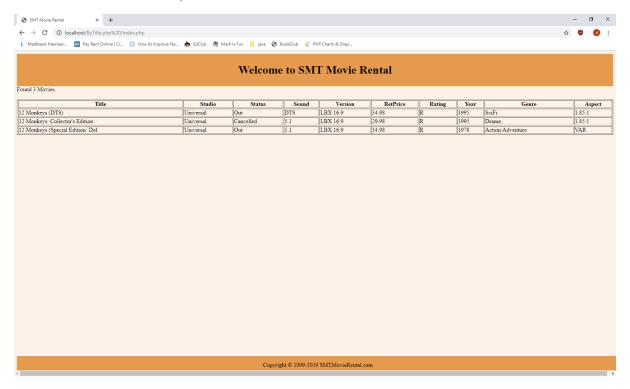
Records: 2298 Deleted: 0 Skipped: 0 Warnings: 523
```

### **Developed Application**

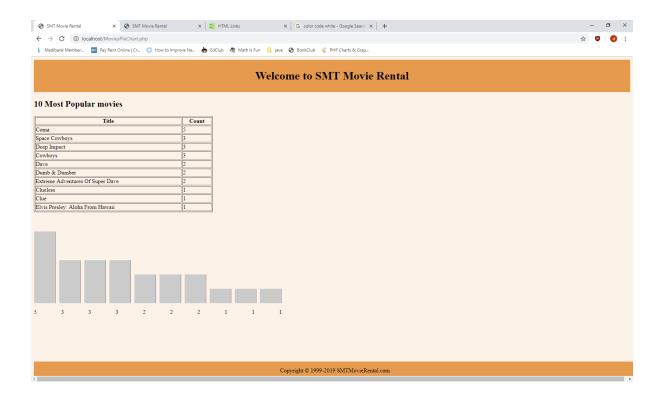
First page of the SMT Movie Rental web application.



Search movies using the title "12 Monkeys" and this will bring 3 movies on the next page for the customer to find the one he/she desired.



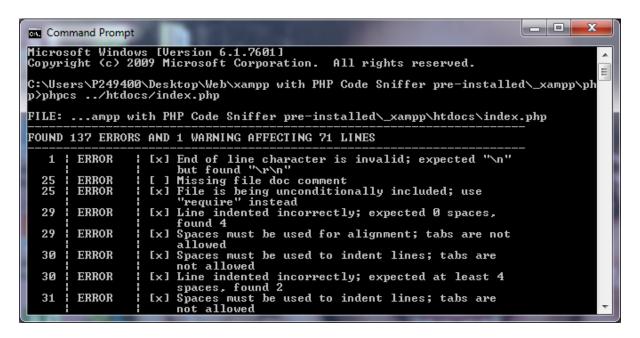
This page shows top 10 popular movies according to customers number of searches.



#### Test code against the PEAR code standard using PHP CodeSniffer

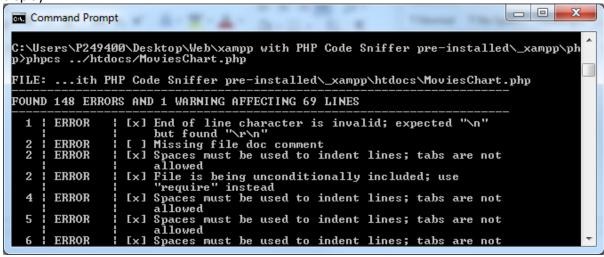
CodeSniffer is use to check for the violation of coding conventions which are guidelines for software structural quality. Software programmers are highly recommended to follow these guidelines to help improve the readability of their source code and make software maintenance easier.

The SMT Movie Rental website index page is also checked for the coding standards violations using the codeSniffer pre-installed version and found 137 errors and 1 warning.

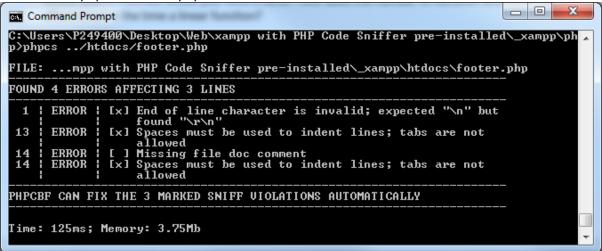


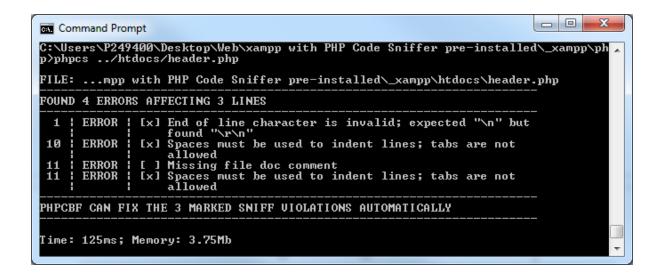
Secondly checked the page MovieSearch.php where all the searched data will display. This contain 154 errors and can be fixed using PHP Code Beautifier (PHPCBF).

Thirdly checked for code violations in MoviesChart.php, where the most popular 10 movies would display.



Check footer.php and header.php for code violations

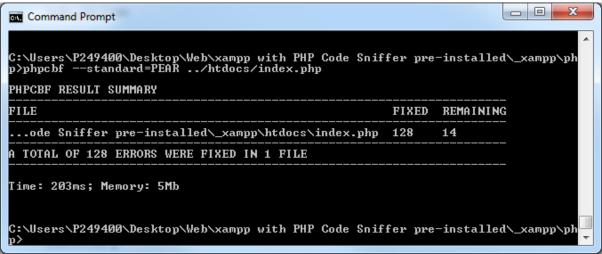




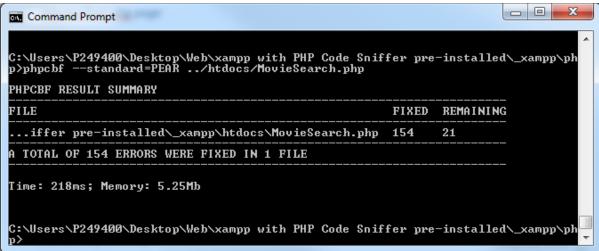
#### Fix Code violations using PHP Code Beautifier

Above violations of coding standards can be fixed easily using PHP Code Beautifier utility. Fixing these issues is highly recommended as its increase the readability and easy to maintain coding in future.

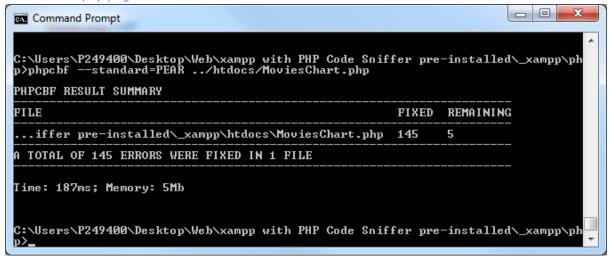
#### *Index.php page:*



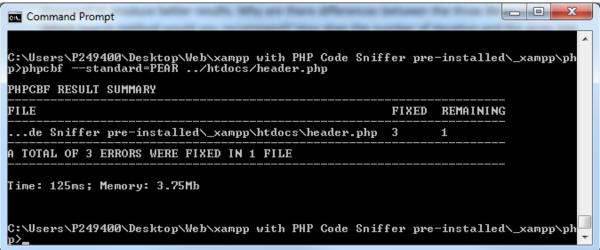
#### MovieSearch.php page:



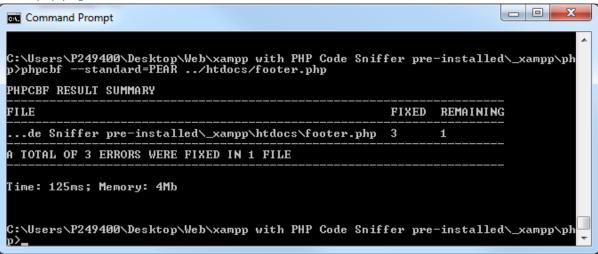
#### MoviesChart.php page:



#### header.php page:

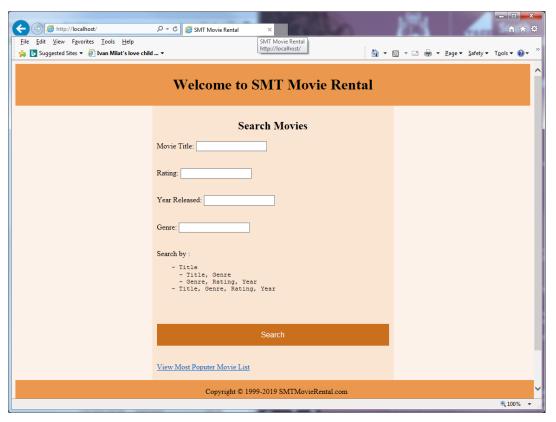


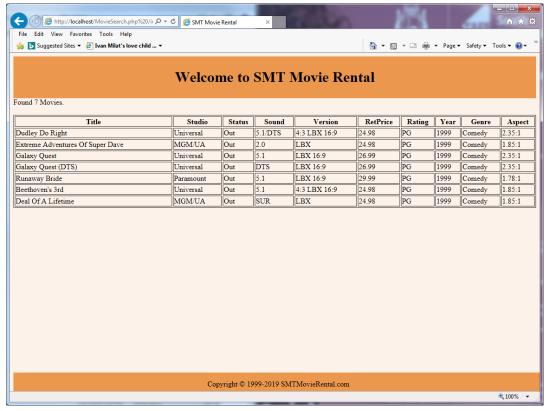
#### footer.php page:

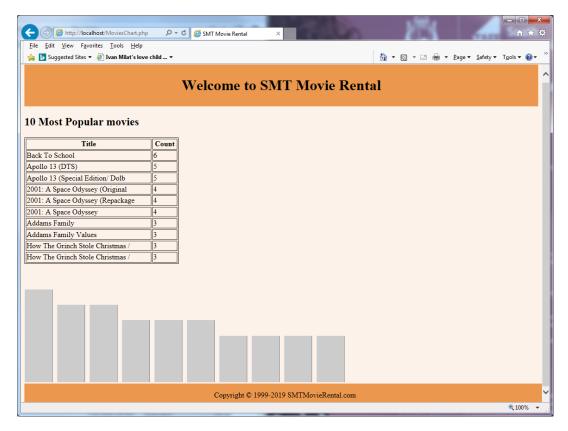


# Testing in various browsers, e.g. Internet Explorer, Chrome and Firefox

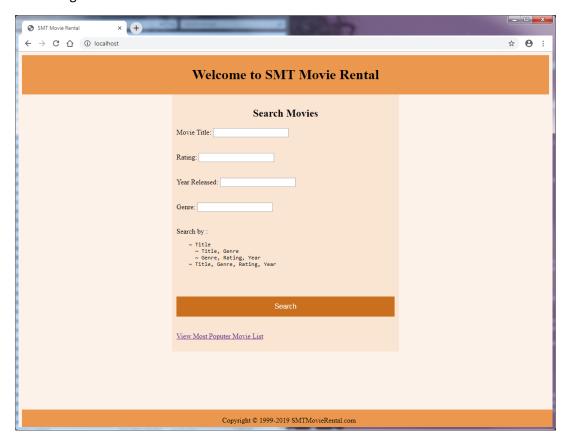
Test the website using Internet Explorer:



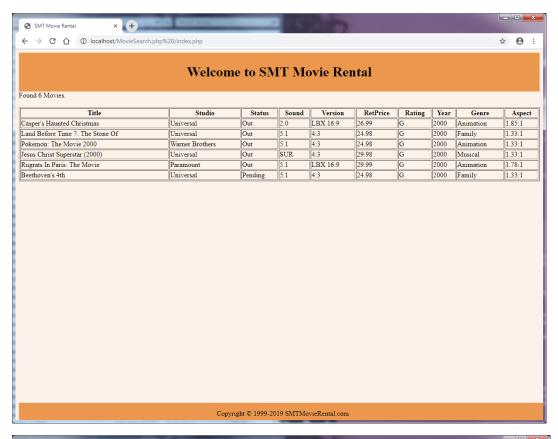


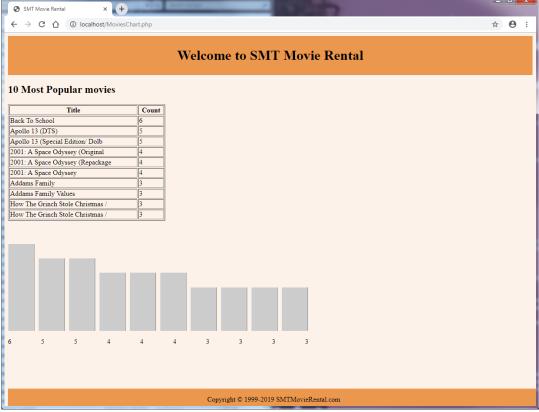


#### Test Using Chrome:



Dushanthi (P249400)





#### Summary

The project task was to develop an online movie search application for customers to search movie availability, cost, and find popular movies. The SMT Movie Rental web site project is a success. It is fully functioning web site which lets for its clients to search movies online.

#### References

https://stackoverflow.com/questions/18268068/php-code-to-get-selected-text-of-a-combo-box

https://www.w3schools.com/html/html form elements.asp

https://www.w3schools.com/sql/sql\_distinct.asp

https://htmlcolorcodes.com/color-chart/flat-design-color-chart/

https://stackoverflow.com/questions/17930312/filling-combobox-with-data-from-phpdatabase/17930407