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COS 216 Practical Assignment 1

- Date Issued: **11 February 2019**
- Date Due: **3 March 2019** before **12:00 (midday)**
- Submission Procedure: **Upload to the web server (wheatley) + CS Web**
- This assignment consists of **6 tasks** for a total of **70 marks**.

1 Introduction

During this practical assignment you will be designing and developing a web site that will showcase a Movie Database similar to what can be seen from THEMOVIEDB (<https://www.themoviedb.org>). Each assignment will build of the other in attempt to have a fully functional Movie database listing website at the end of all the practicals. **NB: It is important that you do not miss any practicals or you will fall behind.**

After successful completion of this assignment you should be able to create a web page which complies to the HTML5 standards and CSS styling. The specific web page for this assignment will showcase the following functionality:

- a navbar from where navigation to each of the assignments will take place;
- you should have the following tabs in the navbar (Discover, Featured, Top Rated, Latest, Calendar) that goes to the specific HTML page.
- an “under construction” page which is the page displayed if the assignment/tab has not as yet been completed;

NB: Each practical must be linked to the navbar.

2 Constraints

1. You must complete this assignment individually.
2. You may ask the Teaching Assistants for help but they will not be able to give you the solutions.
3. You must produce all of the source files yourself; you may not use any tool to generate source files or fragments thereof automatically.
4. You may not use any frameworks for this practical or any JavaScript.
5. Your assignment will be viewed using Brave Web Browser (<https://brave.com/>) (the version in the labs or newer) so be sure to test your assignment in this browser. Nevertheless, you should take care to follow published standards and make sure that your assignment works in as many browsers as possible.
6. You may utilize any text editor or IDE, upon an OS of your choice, again, as long as you do not make use of any tools to generate your assignment.
7. All written answers must be typed and clearly visible in the HTML of the web page, **no** paper based or PDF marking will be done.
8. **Your assignment must work on the wheatley web server, as you will be demonstrating of there, you may not demo of your laptop or a local copy.**

3 Submission Instructions

You are required to upload all your source files (e.g. HTML5 documents, any images, etc.) to the web server (**wheatley**) and the CS Web in an compressed (zip) archive. Make sure that you test your submission to the web server thoroughly. All the menu items, links, buttons, *etc.* must work and all your images must load. Make sure that practical assignment works on the web server before the deadline. No late submissions will be accepted, so make sure you upload in good time. From the stipulated deadline time to after the last demonstration of the assignment, the web server will not be accepting updates to the files.

The deadline is on Sunday but we will allow you to upload until Monday midday, after this we will NOT accept any submissions.

Note, wheatley is currently available from anywhere. But do not rely that outside access from the UP network will always work as intended. You must therefore make sure that you ftp your assignment to the web server. Also make sure that you do this in good time. A snapshot of the web server will be taken just after the submission was due and only files in the snapshot will be marked.

4 Online resources

HTML5 - <https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/HTML5> and
<http://www.w3schools.com/>

CSS - <http://www.w3.org/Style/Examples/011/firstcss>

HTML and CSS - <http://www.codecademy.com/en/tracks/web>

Standards compliance - <http://validator.w3.org/>, <https://jigsaw.w3.org/css-validator/>

FTP tutorial - <http://www.cyberciti.biz/faq/linux-unix-ftp-commands/>

5 Rubric for marking

Setup web server	5
Launch Page layout + logo	5
Discover Page CSS Layout	10 15
Featured Page CSS Layout	3 7
Top Rated Page CSS Layout	3 7
Latest Page CSS Layout	3 7
HTML5 compliance	3
CSS compliance	2
Upload Does not work on wheatley Not uploaded to CS web	-10 -20
Total	70

6 Assignment Instructions

Task 1: Setup the web sever (5 marks)

The first time you **ftp** into the web server, your home folder will be created with 2 files *access.log*, *error.log* in it. Do **NOT** delete these files as they won't be created again and will be used in a later practical involving PHP. Complete the following steps to setup the web server:

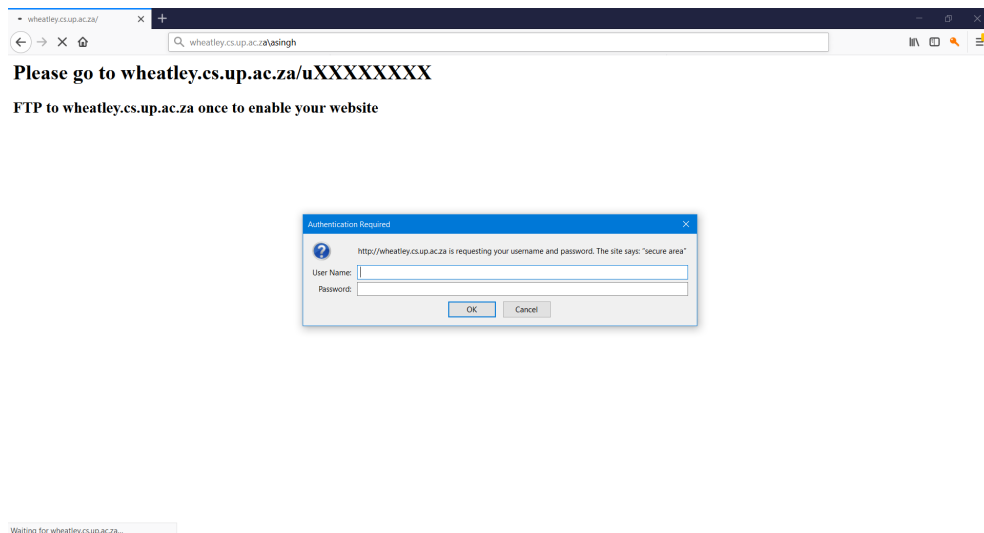
Step 1: **ftp** into the web server, **wheatley.cs.up.ac.za**, using your user name and password that you use to login to the CS website.

Step 2: Check whether the file **access.log**, **error.log** resides in your web server folder.

Step 3: For each practical assignment you will need to have a separate folder. This means that you would have to create a copy of your website each practical and then build on it. You will be penalised if you do not follow this rule.

Step 4: For each practical assignment you should separate all your resources into different folders (eg. *img*, *css*, *js*, etc.).

Step 5: Check whether you can access your home folder via the web server by going to: <http://wheatley.cs.up.ac.za/uXXXXXXXX/>, where **XXXXXXXX** is your student/employee number, in your web browser. You should see a pop-up that will ask you to login. The login details are the same as the CS website login. You will see something similar to the following:



NB: if there is no filename specified in the url don't forget to add the **'/'** to the end..

Task 2: Create a Launch Page (5 marks)

This task requires you to create a Navbar that will link the pages for each assignment that you will be required to complete for COS216 this semester. This will serve as the navigation to your Movies database website, choose a name wisely and make a logo for your website. Make provision for the following (Discover, Featured, Top Rated, Latest, Calendar). You should make use of a HTML 5 Navbar (https://www.w3schools.com/html/html5_semantic_elements.asp).

Other than the page being intuitive to use, you need to design it to be aesthetically pleasing. You will be graded according to how the layout is chosen, use of colour, images, design, etc.

Save the HTML5 code for this page in a file called **index.html** and place it in the same directory on the web server as which **access.log**, **error.log** is in. View the page on **wheatley**. You should be able to access your page using the <http://wheatley.cs.up.ac.za/uXXXXXXXX/>

Alternatively you can call the page directly using the following url in your web browser:

<http://wheatley.cs.up.ac.za/uXXXXXXXX/index.html>

Note: The Navbar needs to be available on each page. You cannot use JavaScript or PHP in this practical.

Task 3: Create a 'Discover' page (25 marks)

For this task you are required to make and design the "Discover" page. This page simply shows movies based on what is commonly searched and filtered. You should make use of mock data to populate your webpage.

NB: You may NOT copy the design of existing websites but should rather use your own creativity.

Your page should have the following information:

- Searchbar - You should only have styled elements, no functionality needs to be implemented in this practical
- Filters (At least 2) - You should only have styled element, no functionality needs to be implemented in this practical
- Each movie should have the following:
 - Movie Poster - The image of movie
 - Title
 - Release Date
 - Rating
 - IMDb Rating
 - Short synopsis (Overview)
 - Age Ratings/Restrictions

Your page should at least have 5 mock movies. Marks will be given according to layout, design, usage of colours and other factors.

The following CSS functionality needs to be incorporated into your design. You are free to add more styling as you prefer but remember it must still look professional.

- Background
- Color
- Font
- Border
- Text-size
- Padding and Margins

Task 4: Create a 'Featured' page (10 marks)

For this task you are required to make and design the "Featured" page. This page shows the movies that are currently special attractions and are unique that should be an exclusive to watch. You should make use of **different** mock data to populate your webpage.

NB: You may NOT copy the design of existing websites but should rather use your own creativity.

Each movie should have the following:

- Movie Poster - The image of movie

- IMDb Rating
- Age Ratings/Restrictions

Your design should **not** be the same as the "Discover" page. Try to minimize the amount of whitespace for each movie by favouring the Movie poster.

The following CSS functionality needs to be incorporated into your design and should use more advanced CSS styling. You are free to add more styling as you prefer but remember it must still look professional.

- Background
- Color
- Font
- Padding and Margins
- Hover – change the background poster to a fanart image

Task 5: Create the "Top Rated" Page (10 marks)

For this task you are required to make and design the "Top Rated" page. This page simply shows movies that are top rated based on an IMDB rating.

NB: You may NOT copy the design of existing websites but should rather use your own creativity.

Each movie should have the following:

- Movie Poster - The image of movie
- Title
- IMDb Rating
- Genre
- BoxOffice Earnings

Task 6: Create the "Latest" Page (10 marks)

For this task you are required to make and design the "Latest" page. This page simply shows movies that are most recently released and are still screening at cinemas.

NB: You may NOT copy the design of existing websites but should rather use your own creativity.

Each movie should have the following:

- Movie Poster - The image of movie
- Country
- Released Date
- Runtime
- YouTube Trailer – you should use the HTML 5 embed tag for this