Department of Computer Science
City University of Hong Kong
CS2204 Fundamentals of Internet Application Development
Course Work No. 1 (CW1)

Learning Outcomes:
- produce a set of web pages for a realistic, commercial-like web site;
- achieve user requirements by using appropriate HTML5 markups;
- produce web pages that can pass through validation
- integrate CSS into the HTML to enhance presentation and user experience
- assess CSS design alternatives and present arguments for the design you chose

1. Overview

You are required to build a simple Web site for a video streaming application with functions such as login, title selection and video playing.

This course work is the first part of a mini-project which uses only HTML and CSS. The Web site therefore would not be fully functional until the second part (CW2) using Javascript is completed.

To align with Discovery Enriched Curriculum (DEC) and encourage you to have critical thinking and investigation, only the basic information and layout of the Web pages are specified and you have freedom to design the structure and other detail layout. You can implement the site in any way you like as long as it can fulfill the specified requirements.

2. Structure requirements

Required information to be presented in the Web site is grouped into blocks which are then grouped into pages. There are 4 pages in total. All content unless specified could be made up by you. If you use information and ideas of other people from the Internet, you MUST acknowledge and quote the source in the design page. Some samples of HTML elements are provided in the appendix.

There is common information that would appear in all pages (except *Design* page). Either iframes or HTML code duplication can be used.

    a) a banner block consists of a logo (could be designed by you) and title of the Web site
    b) a footer with information about copy right and 2 links pointing to *Home* and *Design* pages respectively

The default landing page of the Web site is the *Index* page.

Index Page

    c) a video filling up the whole content, auto-play after loading without showing the control bar
    d) a form for log-in with 2 fields: name and password; submit the form to the *Home* page, no data checking and processing are required in this course work

Home Page

e) a block with a title (spotlight) and a photo
f) a block with a title (search by type) and a table giving the number of available videos for each type in different countries (a minimum of 3 types and 3 countries should be shown)
g) a block with a title (must watch) and a series of video information, each consists of an image link, video title and a short one-sentence description (a minimum of 5 sets of information should be shown)
h) all image links point to the *Play* page

Play Page

i) a block with the video title and player; the video does not auto-play and the control bar should be shown (in CW1, the title and video do not change but in CW2, with Javascript, they change according to the selection in *Home* page)
j) a block with information about the video to be played; information should include duration, cast, director and plot; the plot should be multi-line text
k) a block with a title (recommendations similar to Casablanca) and a series of images

Base on descriptions above and sample screen shots in the appendix, appropriate HTML should be used to implement all features.

Design page

This is an additional free format Web page for you to report your design decisions put under 2 sections:

➢ overall layout and theme design – state what the common theme is (including layout and color used); how your style sheets are organized
➢ acknowledgement - quote all references (give links wherever possible) if you use others' layout, images, concept or design

3.   Style Requirements

The layout and color used for the banner and footer should give a consistent look and feel as a theme.

Index Page

l) the log-in form should be on top of the video and the video should fill up the whole content space

Home Page

m) this page must use a multi-column design

Play Page

n) on scrolling, banner in this page must be fixed in its position with other contents including the footer would go beneath it

4.   Assessment criteria

You will be assessed by how much and how well you can apply what have been learnt from the course, some considerations are:-

- no Javascript/jQuery should be used
- all videos should be written in multiple-browser format
- use appropriate HTML structural tags (e.g. <header>, <footer>, <div>, <span>), id/class attributes for different requirements and give as much structure as feasible
- do not over use id selection; consider selecting elements more specifically (i.e. contextual selection);
- no inline style and no table for layout control
- show clear strategy in designing CSS, i.e. the whole site with a consistent style and specific page styles should be separated
- sensible use of (multiple) external style sheets and, if any, embedded styles
- good practice in styles should be adopted such as links should have hover effect (no underline); focus effect, alignment of label and fields for form; alternate text for images; headings and key words should stand out from other text by setting different styles; good color contrast, readable font size, comfortable margin and padding, etc.
- show a clear separation of structure and presentation
- **your page should look (nearly) the same and the video can be played in different browsers, especially Chrome, FF and IE;**
- your work should pass through validation for document type HTML5
- your Web site should be organized in proper folders, e.g. html, css, images, etc.

5.   Due Date and submission

- The due date has been announced in Canvas course home page, the deadline time is 11:55 pm
  Submit a zip file of your web site with appropriate folders set up so that it could be test directly by unzip - be careful with your URLs, they should work when your submission is test as local files in other computers or as Web pages served by a Web server
- DO NOT include video files in your submission file - should use given video links in the server folder http://courses.cs.cityu.edu.hk/cs2204/

  casablanca-s.mp4, casablanca-s.ogg
  bigbuck-s.mp4, bigbuck-s.ogg
  nature.mp4, nature.ogg
  wonders.mp4, wonders.ogg
  cakemaking-s.mp4, cakemaking-s.ogg
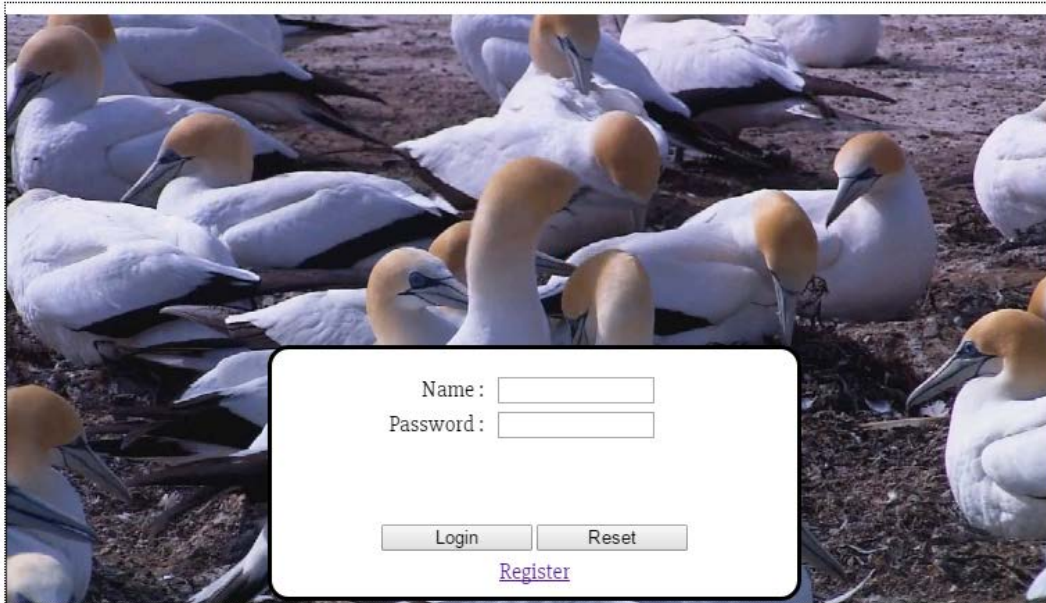 wildlife.mp4, wildlife.ogg

6.   Miscellaneous information

- You should retain a copy of your submission, your same set of web pages will be used again in CW2 for adding Javascript
- Some images are available in Canvas CW1 folder and other free photos, icon or images can be found in – http://commons.wikimedia.org

Appendix – Sample Screen Shots

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Home Page

SPOTLIGHT

SEARCH BY TYPES

By Country	Drama	Action	Horror	Romance
China	250	50	30	178
UK	78	45	129	48
Hong Kong	43	178	341	50

MUST WATCH
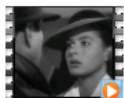
Casblanca - the Morocco romance

Wonders - see the wonders of wild life

Wildlife - enjoy the spectacular views of running wild lives

Play Page

CITY CLASSIC VIDEO

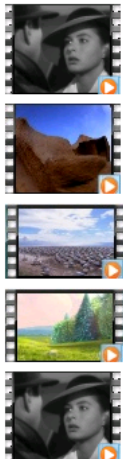▶ 0:00 / 0:30 ━━━━━━━━━━━━━━━━━━━━━━━━━ 🔊 ━━━━━━ ⛶

Duration: 130 mins

Cast: Humphrey Bogart, Ingrid Bergmen

Director: Michael Curtiz

Plot: Casablanca is a 1942 American romantic drama film directed by Michael Curtiz and based on Murray Burnett and Joan Alison's un-produced stage play Everybody Comes to Rick's. Set during World War II, it focuses on a man torn between, in the words of one character, "love and virtue". He must choose between his love for a woman and helping her Czech Resistance leader husband escape the Vichy-controlled Moroccan city of Casablanca to continue his fight against the Nazis.

RECOMMENDATIONS SIMILAR TO CASABLANCA

~ End ~