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 commercial-like web site;
- achieve user requirements by using appropriate HTML5 markup;
- produce web pages that can pass through validation

1. Overview

You are required to build a simple Web site for a cinema with functions for trailers preview, showing movie descriptions and house seating plans, buying and printing tickets.

This course work is the first part of a mini-project which uses only HTML. The Web site therefore would not be fully functional until the second and third part (CW2 & CW3) using CSS and Javascript are completed. To highlight the separation of the 3S (Structure, Style and Script) in design, do not use styles or CSS in CW1.

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

2. Detail requirements

Required information to be presented in the Web site are grouped into *blocks* which are then grouped into *Web pages*. There are 5 pages in total. All content unless specified could be made up by you. If you use information from the Internet, you MUST acknowledge and quote the source in the *Design* page.

Common information appear in all pages (except *Design* page)

a) header consists of a logo (you can design your own) and name of the company
b) main menu for navigation with items : *Home, Now Showing and Ticket*; each of which points to the corresponding page
c) footer information with copy right information and a link to the *Home* and *Design* page

The home/index page of the Web site is the *Home* page.

Home Page

Each of the following items should form a block

d) showing one of the movies and its corresponding information (should use provided videos in the course Web server, not your own video or links to Youtube); the video element should allow playing of 2 formats: mp4 and ogg

e) list of all movies which are divided into two sub-blocks, *Now Showing* and *Up Coming* (at least 3 movies for each group); each movie should have a thumbnail image, the movie name, cast, director and duration

Now Showing Page

f) a selection box for user to choose a cinema for buying ticket
g) a list of movies on show now at the selected cinema; each selection is a form consists of an image of the movie (thumbnail), the movie name, choice of the show time and house, and a submit button labelled as *Buy Ticket* which when clicked the movie name and a numeric value representing the chosen show date time/house will be sent to *Ticket* page
h) information of cinema locations (at least 3, with address and map in the form of an image)
i) since no Javascript will be used in this assignment, no processing of submitted data is required and information sent to *Ticket* page would not be used in this assignment

Ticket Page

j) 4 headings showing the cinema name, movie name, the show date & time and house number of the selected movie (pre-set these information now, they will be sent from *Now Showing page* in CW3)
k) a seat plan of the house, showing the screen and seats (with at least 4 seats in 3 rows, marked clearly with seat number and row name)
l) a confirm button on clicking will go to *Print* page

Print Page

m) Show information of tickets bought in Ticket page; pre-set information for 2 tickets; information will be sent from Ticket page in CW3

3. Sample screen shots of pages and blocks

Base on descriptions above and sample screen shots below, you decide on the appropriate HTML to implement all requirements. The screen shots are samples and contain styles such as borders to give a better understanding of structure of the pages. You don't need to follow exactly the appearance.
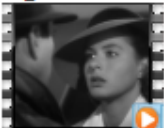
Home page

CITY   CINEMA

HOME   NOW SHOWING   TICKET

Showing one of the movies - item (d)

▶   0:00 / 0:30   🔊   ⛶   ⋮

List of movies : upcoming and now showing - item (e)

e.g.

Name: Casablanca
Cast: Humphrey Bogart, Ingrid Bergmen
Director: Michael Curtiz
Duration: 130 mins

Footer: @Copyright of resources belong to corresponding copyright owners - fair use for education purpose | Home | Design

Now Showing Page

HEADER

HOME   NOW SHOWING   TICKET

Select Cinema: [City Cinema - Festival Walk ▼]

BigBuck

[19 March, Tue - 9:00 AM ▼]   [Buy Ticket]

Wonders

[19 March, Tue - 9:00 AM ▼]   [Buy Ticket]

Wildlife

[19 March, Tue - 9:00 AM ▼]   [Buy Ticket]

Cinema locations - item (h)

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Ticket Page

HEADER

Cinema - Festival Walk
Movie - Big Buck
19 March, Tue - 9:00 AM
House 4

SCREEN

Row A
1	2	3	4

B
| 1 | 2 | 3 | 4 |

C
| 1 | 2 | 3 | 4 |

Seat Booked

A1,A2
[Confirm]

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Print Page

HEADER

HOME   NOW SHOWING   TICKET

Cinema: Festival Walk
Movie: Casablanca
Date Time: 19 March 2020 Tue - 9:00am
House No.: 4
Seat: A1

Cinema: Festival Walk
Movie: Nature
Date Time: 20 May 2021 Fri - 9:00pm
House No.: 1
Seat: A2

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4. Design page

This is an additional page for documentation purpose with the following features:

- a free format page for you to report your design decisions
- page design – for each page, use ONE sentence to state why the HTML used for each block match the requirements
- acknowledgement - quote all references (give links wherever possible) if you use others' images, concept or idea

5. 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:-

- use appropriate HTML tags for different requirements
- use appropriate HTML structural tags (e.g. <header>, <footer>, <div>, <span>) for different requirements;
- show a clear separation of structure from style but at the same time prepare for later style and script processing
- all entities are marked up with no floating text
- your work should pass through validation for document type HTML5

6. Due Date and submission

- The due date has been announced in Blackboard 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 http://courses.cs.cityu.edu.hk/cs2204/video folder :
  - barbecue.mp4, barbecue.ogg
  - bigbuck-s.mp4, bigbuck-s.ogg
  - cakemaking-s.mp4, cakemaking-s.ogg
  - casablanca-s.mp4, casablanca-s.ogg
  - chocolate.mp4, chocolate.ogg
  - nature.mp4, nature.ogg
  - wildlife.mp4, wildlife.ogg
  - wonders.mp4, wonders.ogg

7. Miscellaneous information

- You should retain a copy of your submission, the same set of web pages will be used again in CW2 for adding CSS and CW3 for adding javascript
- Some images (thumbnails) are available in Canvas CW1 folder and other free photos, icon or images can be found in – http://commons.wikimedia.org

~ End ~