

# Faculty of Information and Communication Technology

## ITCS210-Project 2

### Academic Conference Search (28 points)

Academic conference has played an important role in academic world. Many researchers are more interested in conferences and searching more about the information of conferences on the internet to support their decision making. Supposed that you are an organization who provides services to search for information about conferences, you have to create a conference search system that allows user to search for a conference name and abbreviation and returns the following results

1. Conference Information ( eg. important date, venue, website, and details etc. )
2. Conference video
3. Conference comments and reviews

#### **Tools for using in the project**

1. Google Custom Search (or any Web Services)
2. Youtube Data API
3. Twitter API

For conference description, you can use Google Custom Search to search for information ( eg. important date, venue, website, and details etc. ) about the conference and show the best matched results (not more than 20 results) on the system. (You can use other web services to search for conference information)

For conference video search, you have to use Youtube Data API. The result must show a thumbnail of the video, video title and url link.

For comments of conference, you have to use Twitter API to search for comments on twitter that related to the conference users search and show the comments from the last 7 days to the system.

### Requirements

1. Form a group of 3 students

2. The system must be implemented by using HTML, CSS, Bootstrap, PHP, JavaScript and JQuery. You need to implement the system with only one web page.
3. You need to concern about Web Accessibility of your system. In addition, the web page need to be friendly and nice.
4. Calling web services. There are 3 web services that you need to use. Therefore, 2 of them need to be called by client-side scripts and the rest need to be called by server-side scripts. In addition, the server-side scripts need to produce the content before returning to users using AJAX.
5. You need to write a report to present the following:
  - a. What have you done for Web Accessibility?
  - b. How is your web application friendly comparing to the other web applications?
  - c. How can you interact with all web services?
  - d. The architecture of your system.
  - e. The structure of your code (e.g. how does each code interact the others?)
  - f. The screenshots of each function

Hint:

You may find the information about the web services from the list of website below:

1. <https://developers.google.com/custom-search/>
2. [https://developers.google.com/apis-explorer/?hl=en\\_US#p/youtube/v3/youtube.search.list](https://developers.google.com/apis-explorer/?hl=en_US#p/youtube/v3/youtube.search.list).
3. <https://developer.twitter.com/en/docs/tweets/search/overview>

## Submission Instructions

- Submit a zip file containing your **code**, **report in pdf**, and **related files** (named: **secX\_PJ2\_IDxxx\_xxx\_xxx.zip**), where xxx is the last 3 number of your id, on <http://Mycourses.ict.mahidol.ac.th>.
- Due date for each section is 1st December 2018, 11 p.m. for all sections

**Note: No late submission will be accepted.**

# Marking Criteria

| Criteria                                       | 4 points   | 3 points   | 2 points   | 1 point   | 0 point                                     |
|--|--|--|--|---|---|
| 1. Requirements (2-5)                          | All requirements are achieved.   | One of requirements is missing.  | Two of requirements are missing.   | Three of requirements are missing.  | None of requirements are achieved.          |
| 2. Applying knowledge of JavaScript and JQuery | JQuery functions, DOM, Decision Structure, Repetition structure, and Functions are properly used and JavaScript or JQuery is included in HTML file as js file. | DOM, Decision Structure, Repetition structure, and Functions are properly used and JavaScript or JQuery is included in HTML file as js file. | DOM, Decision Structure and Repetition structure are properly used and JavaScript or JQuery is included in HTML file as js file. | DOM is used and JavaScript or JQuery is included in HTML file as js file. | Includes JavaScript or JQuery in HTML file. |
| 3. Applying knowledge of PHP                   | Applying basic PHP, CURL library Require and Include, session, and GET or POST functions knowledge.  | Applying basic PHP, Require and Include, session, and GET or POST functions knowledge.   | Applying basic PHP, session, and GET or POST functions knowledge.  | Applying basic PHP, and GET or POST functions knowledge.                  | Applying basic PHP knowledge.               |
| 4. Search result                               | All web services have  | Two web services have  | One web services have  | Intend to interact with Web   | There is no search result.                  |

|                              |   |   |  |  |   |
|------------------------------|---|---|--|--|---|
|                              | appropriate search results.   | appropriate search results.   | appropriate search results.  | services but there is no appropriate result  |   |
| 5. Web services interactions | All web services are called as stated in the requirements.          | One web service is not called as stated in the requirements.                      | Two web services are not called as stated in the requirements.                     | Intent to perform Web services calling but not successfully.                         | There is no web service interaction or All web services are not called as stated in the requirements. |
| 6. Comments                  | All necessary blocks of code have comments.                         | Most necessary blocks of code have comments.                                      | Some necessary blocks of code have comments.                                       | Some comments are written.   | There is no comment.  |
| 7. Report                    | All contents required are in the report with excellent explanation. | One content required is missing but the rest contents have excellent explanation. | Two contents required is missing but the rest contents have excellent explanation. | Three contents required is missing but the rest contents have excellent explanation. | Four contents required is missing but the rest contents have excellent explanation.                   |

## Extra (5 points)

Since the comments of conference are very important for conference, the sentiment analysis should be done in order to get insights of the comments of users. The sentiment analysis is basically an approach to determine whether a particular comment is positive, negative, or neutral.

The extra part is to conduct the sentiment analysis of the comments using php and show whether a particular comment is positive, negative, or neutral in graph format.