

ITc5202 Project

Project duration: Week13~14

Project submission:

- Phase 0: August 1 (get ready for the project)
- Phase 1: August 2 (work on the project during the class on Tuesday, August 2, 2022)
- Phase 2: Submit the project by August 8, 2022 (Complete project + video)
- Phase 3: Project presentation/evaluation on August 9,2022

Project Team: Team of two

Assessment Weight: 15% of your final course Grade

Assessment includes:

- Submitting project-part1 (august 2) (5%)
- Final project submission includes all project file + project document + Video recording (8%)
- Project peer evaluation + presentation in Week 14 (2%)

Submission Deadline: End of week13

Project Description

You are in the process of designing a web application which process data from reddit.com

Phase 2: You are going to continue the Phase 2 by completing the missing part of Phase 1 and complete the additional tasks.

Step1: Explore searching on **reddit** api : search functionality.

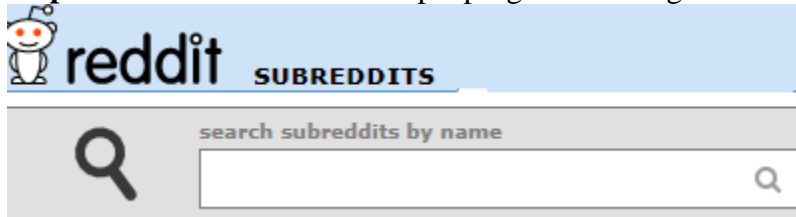
- What is the difference of the followings? Observe the output and explain
 - <https://www.reddit.com/search?q=ajax>
 - <https://www.reddit.com/search.json?q=ajax>
- Develop a simple web application which gets user input and search for related articles in reddit.
 - Display the article title, author, its subreddit, url, score and flair , in proper format
 - What is flair?
 - A flair is a **'tag' that can be added to threads posted on the reddit website within a sub-reddit**. They help users understand the category to which the posts belong to and help readers filter specific kind of posts based on their preferences.
 - Which flair should you consider? There is different type of flair properties in reddit-json. You need to decide which of them to use (choose the one which make sense, remember, flair may not exist for all entries!, you have to code properly)
 - Try to sort data based on title
 - Try to display 100 records (no of records in search result)

- In your application, for formulating the url for API call (and other purposes), use “Javascript Interpolation/Variable substitution (https://www.w3schools.com/js/js_string_templates.asp)
- Apply proper data validation on user input and error handling on API calls

Step 2: Explore using **pushshift** API in order to search on comments and subreddits

- Observe the output and explain how the following command works
 - <https://api.pushshift.io/reddit/search/comment/?q=science>
 - Read the API document for more info: <https://github.com/pushshift/api>
- Develop a simple web application which gets user input and search for related articles in reddit.
 - Display the article body, author, its subreddit, url, score and flair, in proper format
 - Try to sort data based on body
 - Try to display 100 records (no of records in search result)
 - In your application, for formulating the url for API call (and other purposes), use “Javascript Interpolation/Variable substitution (https://www.w3schools.com/js/js_string_templates.asp)
 - Apply proper data validation on user input and error handling on API calls

Step 3: You are asked to develop a program which gets user input ‘subreddit’ as follow

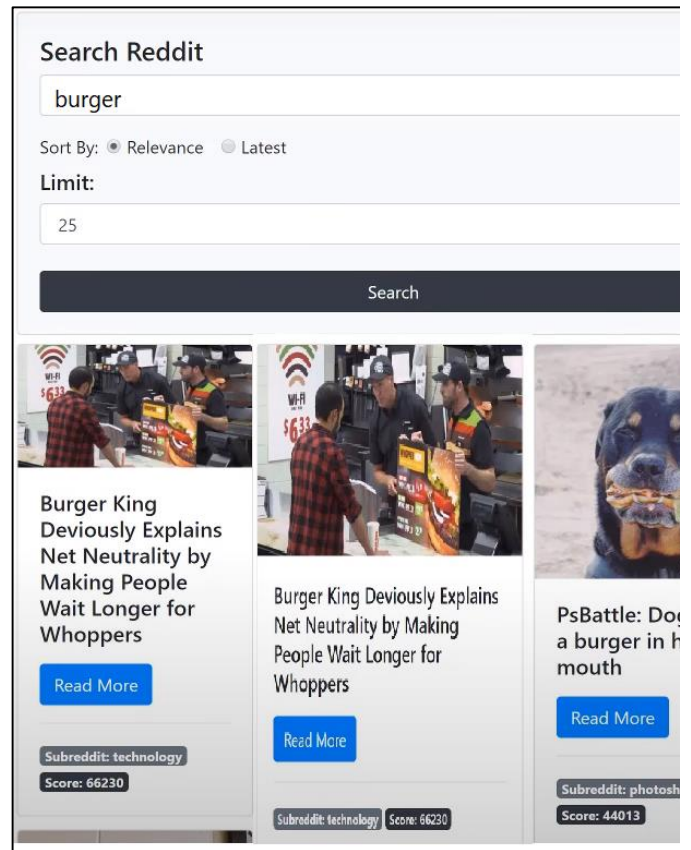


And displays the top 3 matching subreddits. In each subreddits, displays three top score posts, their authors, score, any related images, and flair of each posts

- For each post, displays few top comments and its authors (i.e display 3 comments, ordered by their score, or date)

Step 4: You are asked to design the app as follow:

- User has the option to search on reddit , choose the number of records in result-set, and choose the reddit-sort attribute
- The search result should have a title or a summary of the reddit content , + a picture + score + subreddit + a link (read more) to actual article.
- In your application, for formulating the url for API call (and other purposes), use “Javascript Interpolation/Variable substitution (https://www.w3schools.com/js/js_string_templates.asp)
- Apply proper data validation on user input and error handling on API calls and search operation



Step 5: You are asked use the attached XML file which is based on one of the subreddit data in RSS/XML format. You are asked to develop a JS program which displays these records in proper format in the output.

Bonus (up to 3%): Try to redo Step 5 by using the url : <https://www.reddit.com/r/it/.rss> (instead of given xml data). You may fall into an error and I need your creativity to explain the reason of the error, and provide a solution to extract data directly from this online rss-feed in subreddit of “IT”.

Design/Development Notes:

- *I am expecting a professional teamwork and fair collaboration between team members*
- *In this project, you also need to use the concept that we have learned so far in order to extract information from XML/JSON data sources. In this project, you are free to use JS (ES6+) or jQuery and also use either XHR or Fetch to implement Ajax calls.*
- *You are allowed to use any material from the internet, but those materials should be relevant to our course and you should be able to answer any question about what you submit at the end.*
- *You can do brainstorming with other groups, but any form of sharing work/code is strictly avoided.*

Project Submission:

- Add the following declaration at the top of .html files
/*****
* ITC5202 – Project
* I declare that this assignment is my own work in accordance with Humber Academic Policy.
* No part of this assignment has been copied manually or electronically from any other source
* (including web sites) or distributed to other students.
*
* Group member Name: _____ Student IDs: _____ Date: _____
*
*
*****/
- Compress (.zip) the files in your Visual Studio working directory (this is the folder that you opened in Visual Studio to create your client side code).
- Complete & Submit the project document (given template).
- Record a detailed walk-through/demonstration video presentation of the project

Important Note:

- Submitted project must run locally, ie: start up errors causing the assignment/app to fail on startup will result in a **grade of zero (0)** for the assignment.
- **LATE SUBMISSIONS for assignments.** There is a deduction of 5% for Late submissions every hour, and after 12 hours it will grade of zero (0).
- Assignments should be submitted along with a video-recording which contains a detailed walkthrough of solution. Without recording, the assignment can get the maximum of 1/3 of the total.