

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 Thursday, August 4, 2022)
- Phase 2: Submit the project by August 10, 2022 (Complete project + video)
- Phase 3: Project presentation/evaluation on August 11,2022

Project Team: Team of two

Assessment Weight: 15% of your final course Grade

Assessment includes:

- Submitting project-Phase1 (August 4) (5%)
- Final project submission includes all project file + project document + Video recording (8%)
- Project peer evaluation + presentation in Week 14 (2%)

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 : Explore searching/extracting data from **subreddit** and its comments.

- What is the difference of the followings? Observe the output and explain
 - <https://www.reddit.com/r/pics>
 - <https://www.reddit.com/r/pics.json>
 - Using 2nd URL, Develop a simple web application which displays the article title, author, the image, url, score and flair , in proper format
 - 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.

- Read the API document for more info: <https://github.com/pushshift/api>
- The following command search in subreddit : “pics” and extract the comments that have search_keyword:“family” in their “body” Observe the output and explain how the following command works
 - <https://api.pushshift.io/reddit/search/comment/?q=family&subreddit=pics>

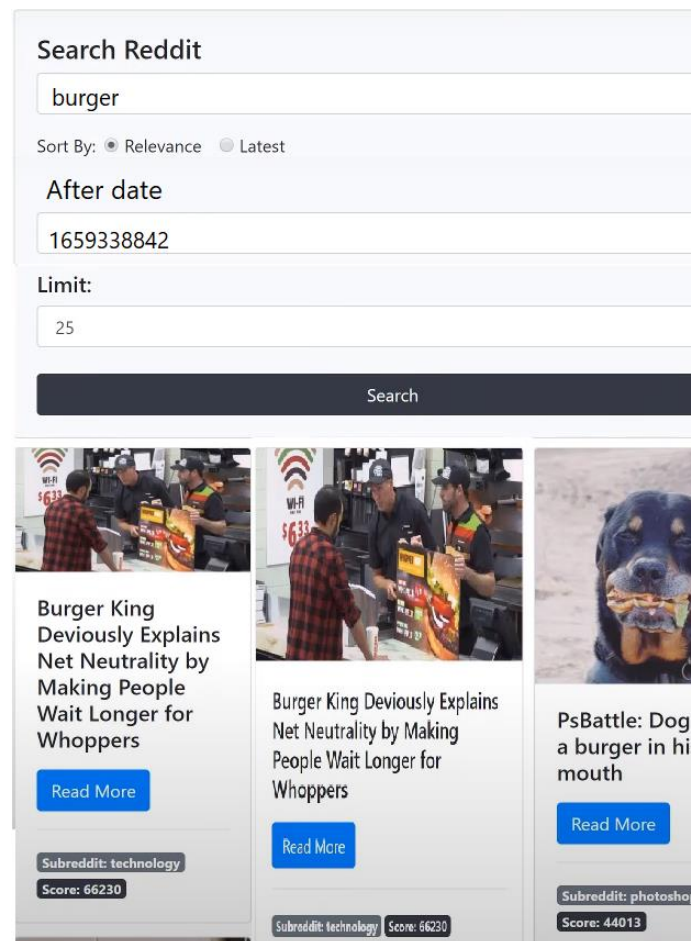
- Develop a simple web application which gets user “search_keyword” (instead on ‘family’ as input) and search for related comment in subreddit comment.
 - Display the article body, author, its subreddit, url, score, flair and its image (just one) , in proper format
 - Try to sort data based on title
 - 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 3: You are asked to develop a program which gets two user inputs: the ‘post title’ and the ‘subreddit’. Then it displays the top 3 subreddit (with highest no of subscribers) and the 3 top recent (published_date) posts in each subreddit.

- You need to display subreddit no of subscribers, age of the community (how long subreddit is alive),
- For the posts, the author, post’s score, post’s title, any related images or flair of each posts

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, choose the reddit-sort attribute, as well as the time/date of publishing the post.
- You need to use the url:
<https://api.pushshift.io/reddit/search/submission/?after=1659338842&q=burger>
 - You can use this website to find the conversion of time/date into unix-timestamp: <https://www.unixtimestamp.com/>
 - There is a JavaScript command that we have used before to make this conversion ☺ and I am expecting to use it
- The search result should have a title or a summary of the reddit content(selfText) , + 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 display these records (all tags/attributes under <entry> as well as tags/attributes under <feed> including” <category> + <updated> + <subtitle> + <title>) in proper format in the output.

- develop a JS program which display data in proper format
- design an XSL document which displays data in proper format

Bonus (up to 3%): Try to redo Step 5 by using the url : <https://www.reddit.com/r/programming.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 “programming”.

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.