MCI project   Second Milestone Report

Team number: 08 (I-Sheng Chris Wang a1699186)
Project Title: Analyzing the content of README files on GitHub

Milestone 2	Activities	Planned Outputs	Achieved Outputs
Restate the milestone from your Draft plan .	Restate the key activities from your draft plan.	Restate the planned outputs from your draft work plan.	Outline the actual outputs compared to what was projected (or type "same as planned")
The second milestone is to realize all functions of the project required and beautify the interface.	Fix the function of extracting URL	Currently, the number of URL may present zero, but there are links in the README file. After we have fixed it, which will run successfully.	Same as planned. The URLs have been successfully extracted.
	Realize the function to extract titles.	The project can extract titles from README files, and the result will be listed under the table.	Same as planned. The following table had shown the detail of section titles which being extracted.
	Access the external servers	External servers will replace the initially internal servers, which means individuals can access to the website wherever they are.	We have successfully launched and deployed to the live at the first place, but there was a benchmark restriction prompting to discontinue upon the web service.
	Use CSS to beautify the webpage.	After second Milestone, the content of webpage will be changed according to the window size, and the style of webpage will be more unification.	Same as planned. Bootstrap is implemented and it is compatible to all devices.

Team reflection on progress	Provide some comments below regarding the completion of this milestone specifically around: 1. How is the project progressing? 2. Are there any differences between projected and actual outputs/outcomes?

The project progress quite smoothly. All the planned project management is still under control and submits on time. We have fulfilled all the requirements from the business case as well as the partial requirements that added by the client later on. Nevertheless, the project is still undergoing, as the certain bug still exists in our program. We would also like to improve our software user interface design in order to have a better visual aid for the client or user to use.

There is not much difference between projected and actual outputs that we have accomplished except the requirement that access to the external servers. The only different so far is the method to run our system. We are currently run as localhost to demonstrate our proposed system. As per requested by our client mentioned that we can deploy to the web service, so that all the users can access to our developed website as long as the domain obtained. We have tried to use one of the web services so called Digital Ocean to deploy our program to live, unfortunately, the web service found that there is a denial of service attack originating from our Droplet, consequently, Digital Ocean has disabled our networking deployment on their servers and resulting in the service termination.

Student ID

Individual reflection on progress	Explain what has been your contribution to the second milestone and what have you learned from the second iteration. Have you have any problems, If so, how have you managed them?

Contribution to second milestone and what have learned:
1. Aggregate all the extracted section heading in a table
   There is a table that shows all the aggregated result of every section heading from the selected README files. If found the same section heading from another README, it will accumulate it.
2. Fetching and presenting the result in dynamic form
   After the user has clicked the submit button, the result of presenting each README file will be in dynamic form by using AJAX. Once the first README has been fetched, then it will show the result immediately until the end.
3. Make the selected URL as the clickable hyperlink
   Users can check what are the URL been extracted from the README file.
4. Calculation the total of empty files
   It will sum up all the empty file if the selected GitHub project does not have the README file.

5. System deployment to web services
   Learned how to deploy the system to the real server. Client or users can access our system through the domain at any time rather than run it on the localhost every time.
6. Preparation of Meeting Agenda and Minutes
   Learned how to prepare the meeting agenda before meeting and meeting minutes after the meeting.

Problem occurred and how to solve it:
1. Extraction of URL
   At the first place, we have extracted the description that starts with "!" in terms of the markdown language. This may indicate the only URL will not be duplicated if the same link is found. However, we have filtered to indicate that every hyperlink no matter is same or different will have to be extracted from the corresponding README file.

2. Presenting in dynamic form by using AJAX
   We have implemented the feature that allow the result to be showing on the dynamic form by using AJAX. Unfortunately, we can't consolidate with other feature like making the URL as the clickable hyperlink if we implement it. As we are implementing in the form of the same table with the dynamic result presenting, so the consolidation between these issues have to be separate. We have decided to disregard the result which presenting in the dynamic form by using AJAX.

3. Cascading Style Sheets (CSS)
   One of the problems we found that the localhost does not allow to integrate with the corresponding CSS in regards of the HTML. Meaning to say, when we run the HTML on the localhost with the separate file of CSS, it will not show any effect. However, it only has effect if the CSS is included within the HTML file.

Individual reflection on project completion	Looking at your current progress, evaluate how close you are to complete project goals and/or extension. Briefly describe your plan to complete the project in weeks 11/12

As mentioned in the previous question, if we manage to fix all the bugs upon the additional requirement given by our client, then our project will be fully completed. We will be going to fix the bug about the section heading regular expression to make sure only the section heading will be extracted instead of other description that starts with "#" tag.