Project Final Deliverable

1. Project title

Newsletter Application: The goal of this project is to create an application where the user can search for any articles on a specific subject and can choose their source.

2. Team members and roles

Dylan Cathcart - dylancathcart@gmail.com - Project Manager

Noble Nwokoma - Nwokomanoble5@gmail.com - Tester

Alexander Quinto - Alexander.e.quinto@gmail.com - Analyst

Ethan Shaffer - Shafferethanv@gmail.com - Lead researcher

Amir Sultan - Asultan2@gmail.com - Assistant researcher

3. Summary of accomplishments

Describe briefly (1-2 paragraphs) what you have accomplished in this project – the tangible results of your work.

At the end of this project, we have achieved our goal of creating an application where the user is able to search for any articles on a specific subject and has the ability to choose their source. Also, the application will be able to create a newsletter type format where the user can sign up to receive emails on the most popular topics on a certain subject or the top headlines for any given country. By using the code we wrote, the user is able to perform research in a simpler manner, and stay up to date on the research which they are doing. This allows whoever is doing research to find sources quickly, and has the ability to receive emails on the topic which they are researching. In addition, the user has the ability to choose the country in which their research comes from, or to just receive research from any country.

We were able to accomplish our goal thanks to the use of five major functions as seen in our code. The functions catchInformation(), createHeadEmail(), createHTML, sendEmail(), and Main(). To gather the research sources, catchInformation() was used to determine how the API calls were made, and eventually provide a list of the sources. CreateHeadEmail(), createHTML, and sendEmail() in order to create the email, and send it to the user. Finally, the main() function was used for everything in between what was previously described. Most of the general code, or

what the user has to interact with was under the main function. With the combination of these five functions, we were able to accomplish the objective which we sought.

4. Summary of learning

Describe briefly (1-2 paragraphs) you have learned as individuals and as a team – for example, challenges, interesting findings, new approaches to programming that you have learned.

Throughout this project, we learned quite a bit as a team, in a variety of different areas. Foremost, all that we learned about APIs, as well as the functions that we used in order to manipulate them. Before the project, no members of the group really had much understanding on how to use, or in some cases even what an API was. As we worked on the project, we were able to get a good understanding on the advantages of an API, and how to use the functions which we included to manage data and resources. In addition, something some of us thought was interesting was the similarities from project three and four. Project three had us create a file for the user, and this project had us create an email to send to the user. These were two aspects of the past projects our group thought were interesting, and the use of python to create and distribute either a file or email was something that we thought will be helpful to know and use in the future. Finally, this was our first time doing a project with a group, as regards to just partners. The collaboration aspect, and communicating as a team in a respectful and responsible manner was something that we all had to approach in a new way.

5. Next steps

What would you do next for your project (bullet list or 1 paragraph) if you had more time

- Refine the sources down to either scholarly sources, non-scholarly sources, or both.
- Refine the sources by their dates, to possibly exclude sources from before or after a certain date.
- Refine sources by page amount to put a specific range of how long each article should be.
- Add additional methods to provide the user notifications on their topic of interest.
- Add ways to refine what kind of source you are looking to receive, whether the user wants a journal, book, website, or other form of the resource
- Add a function to give the user a citation on the selected resource.

6. Individual contributions

Describe each team member's **specific** contributions. Indicate what code they contributed. Be sure that there are comments in the code that clearly label each person's contributions. Use a bullet list.

Ethan - Helped out with the catchInformation() function, as well as the main() function, and as lead researcher, provided valuable information on what would be the most successful way for the group to go about the design of the program. Ethan would go through old slides from the class to help answer, or debug some of our problems.

Alex - Was able to assist on all parts of the code, as the main codewriter for all of the five functions. With help from the two researchers, he was able to be the foundation for the code on all of the five functions, as well as the initial designer of the flowcharts. With the help of Noble, Alex was also able to spend a lot of time debugging the code, and making it run as efficiently as possible.

Dylan - Dylan provided help for the createHTML(), as well as sendEmail() functions of the code. The sendEmail() function was the function that the group had struggled with the most, and with the help of Alex and Noble, they were able to get this done. Dylan also reminded the group of upcoming assignments, as well as scheduling times to meet.

Noble - As tester, Noble spent a lot of time working to debug the code, and constantly checking to see if the changes in the code influenced prior lines negatively. In addition, Noble worked on the createHeadEmail(), as well as the sendEmail() functions. His help on the sendEmail() function was very important.

Amir - Alongside Alex, Amir provided a lot of help when doing research for the initial flow chart as assistant researcher. As we were not entirely sure how to attack the problem at first, Amir provided insight from his research on how to manage an API. In addition, he provided assistance on the createHeadEmail portion of the code.

7. Include <u>everything</u> for your project in the ZIP file (including previous updates/code-snapshots, where available). Make sure you follow the rubric in the Team Project information doc.

https://github.com/aquinto/INST126/tree/master/project4