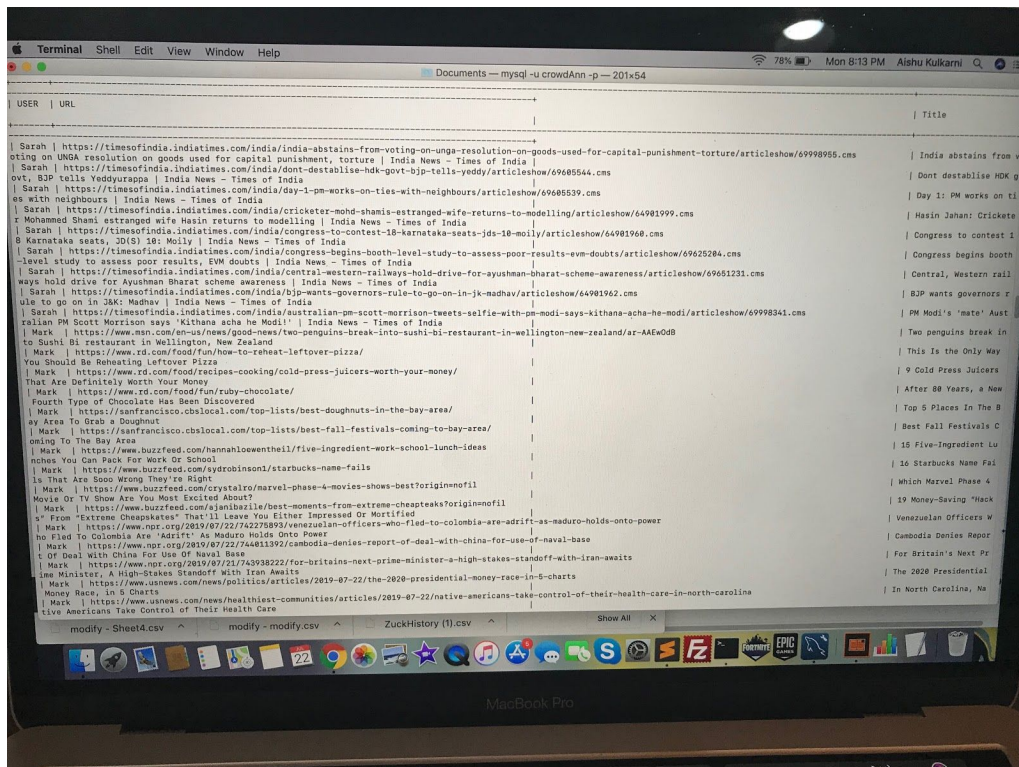System and Unit Test Report
Crowdsourced Anonymity
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07/20/19

System and Unit Test Report

System Test scenarios:

A. User Story 1 from Sprint 1: As a user, I want to be able to have my data stored safely and efficiently in a database so that my privacy is ensured.
Scenario:

1. Open terminal and go to the directory where db.py is located on the computer.
2. Run db.py which reads 5 csv files and imports the csv files' data into the database table by typing: python3 db.py.
3. Log into MySQL account by typing: mysql -u crowdAnn -p. Press enter.
4. When prompted, type password: cmps115! Then, press enter.
5. Type in: USE CrowdSourcedAnonymity (the name of the database). Press enter.
6. Type in: SELECT * FROM dataTable (this will show the data in the dataTable). Press enter.
7. The user can see that the csv file data is being stored properly into the database.

B. User Story 2 from Sprint 1: As a user, I want a tcp server so I know that files are able to get sent from the client to the server in a safe manner.

        Scenario:

1. Run the Client program: client.py and Server program: server.py separately, and send files to both of them.
2. Check to make sure that each part of the server and client are able to receive and accept files from each other.
3. User should see that their files are being successfully transported without losing any critical files.

C. User Story 3 from Sprint 2: As a user, I want to make sure that I do not visit certain dangerous websites so that my online info remains protected.

        Scenario:

ORIGINAL FILE WITH BANNED URL:

user1

USER	URL
Sarah	https://timesofindia.indiatimes.com/india/india-abstains-from-voting-on-unga-resolution-on-goods-used-for-capital-punishment-torture/articleshow/69998955.cms
Sarah	https://timesofindia.indiatimes.com/india/dont-destablise-hdk-govt-bjp-tells-yeddy/articleshow/69605544.cms
Sarah	https://timesofindia.indiatimes.com/india/day-1-pm-works-on-ties-with-neighbours/articleshow/69605539.cms
Sarah	https://timesofindia.indiatimes.com/india/cricketer-mohd-shamis-estranged-wife-returns-to-modelling/articleshow/64901999.cms
Sarah	https://timesofindia.indiatimes.com/india/congress-to-contest-18-karnataka-seats-jds-10-moily/articleshow/64901960.cms
Sarah	https://timesofindia.indiatimes.com/india/congress-begins-booth-level-study-to-assess-poor-results-evm-doubts/articleshow/69625204.cms
Sarah	https://timesofindia.indiatimes.com/india/central-western-railways-hold-drive-for-ayushman-bharat-scheme-awareness/articleshow/69651231.cms
Sarah	https://timesofindia.indiatimes.com/india/bjp-wants-governors-rule-to-go-on-in-jk-madhav/articleshow/64901962.cms
Sarah	https://timesofindia.indiatimes.com/india/australian-pm-scott-morrison-tweets-selfie-with-pm-modi-says-kithana-acha-he-modi/articleshow/69998341.cms
Sarah	https://www.insideedition.com/college-student-behind-plan-storm-area-51-54604?fbclid=IwAR2xV0Mya6XeIgCQJ2SgAgVsuC3xv20WrGd76CnSvLvZrpHDGo6XK2aM6YM

UPDATED WITHOUT BANNED URL:

user1

USER	URL
Sarah	https://timesofindia.indiatimes.com/india/india-abstains-from-voting-on-unga-resolution-on-goods-used-for-capital-punishment-torture/articleshow/69998955.cms
Sarah	https://timesofindia.indiatimes.com/india/dont-destablise-hdk-govt-bjp-tells-yeddy/articleshow/69605544.cms
Sarah	https://timesofindia.indiatimes.com/india/day-1-pm-works-on-ties-with-neighbours/articleshow/69605539.cms
Sarah	https://timesofindia.indiatimes.com/india/cricketer-mohd-shamis-estranged-wife-returns-to-modelling/articleshow/64901999.cms
Sarah	https://timesofindia.indiatimes.com/india/congress-to-contest-18-karnataka-seats-jds-10-moily/articleshow/64901960.cms
Sarah	https://timesofindia.indiatimes.com/india/congress-begins-booth-level-study-to-assess-poor-results-evm-doubts/articleshow/69625204.cms
Sarah	https://timesofindia.indiatimes.com/india/central-western-railways-hold-drive-for-ayushman-bharat-scheme-awareness/articleshow/69651231.cms
Sarah	https://timesofindia.indiatimes.com/india/bjp-wants-governors-rule-to-go-on-in-jk-madhav/articleshow/64901962.cms
Sarah	https://timesofindia.indiatimes.com/india/australian-pm-scott-morrison-tweets-selfie-with-pm-modi-says-kithana-acha-he-modi/articleshow/69998341.cms

1. The first picture above shows the csv file with all of the user's urls.
2. Open terminal and go to the directory with danger.py file on the computer.
3. Run danger.py which takes in a csv file by typing: python3 danger.py.
4. It ultimately parses every url that gets sent through and then checks whether a specific url is banned or not banned.

5. If a specific url is not banned, it goes to the next one; however, if the url the parser comes across is banned, then it becomes removed. In this case, we ban "https://www.insideedition.com/" as shown in the last row of the first picture.

6. The user can see the end result in the updated csv file, which will show only the unbanned urls with all the banned urls erased as shown as the second picture above.

D: User Story 1 from Sprint 3: As a user I want to be sure that my data is being grouped with only four other people to be sure that my data is not being revealed to everyone.

Scenario:

```
[Aishus-MacBook-Pro:Documents aichu$ python3 groupings.py
 [[('Loki',), ('Carol',), ('Sarah',), ('Anna',)], [('Mark',)]]
[Aishus-MacBook-Pro:Documents aichu$ python3 groupings.py
 [[('Sarah',), ('Loki',), ('Mark',), ('Carol',)], [('Anna',)]]
[Aishus-MacBook-Pro:Documents aichu$ python3 groupings.py
 [[('Loki',), ('Sarah',), ('Carol',), ('Anna',)], [('Mark',)]]
[Aishus-MacBook-Pro:Documents aichu$ python3 groupings.py
 [[('Mark',), ('Carol',), ('Sarah',), ('Anna',)], [('Loki',)]]
```

1. Open terminal and navigate to the directory containing groupings.py file.
2. Type in: python3 groupings.py. Press enter.
3. The file groupings.py will open the database and select the distinct users from the database table.
4. It will then randomly store users into a list. Each run of the program will change the grouping of the users as shown in the picture above. It is required to type in a print statement in the code: print (Random_List) in order to see the groupings above since the code does not produce any output on the terminal.
5. The code will then generate a csv file that contains the randomized data of the users.
6. User should see a csv file created on their computer and see in the csv file that he/she is receiving a random set of data from different users.

E: User Story 1 from Sprint 3: As a user, I want to make sure that the program is automatically able to open files on my browser to ensure that those are indeed the links I am visiting.

Scenario:

1. Run the code, browsing.py, which will open up the csv file with users' urls.
2. Let the program automatically run every url and open up a new link.
3. The user can now verify that these are indeed the sites they have been visiting.