Assignment

Technologies used

1. NodeJS
2. ExpressJs for server
3. Angular 6 for front-end
4. Bootstrap for Angular for Design
5. Heroku for deployment
    a. https://fetchgitissues.herokuapp.com

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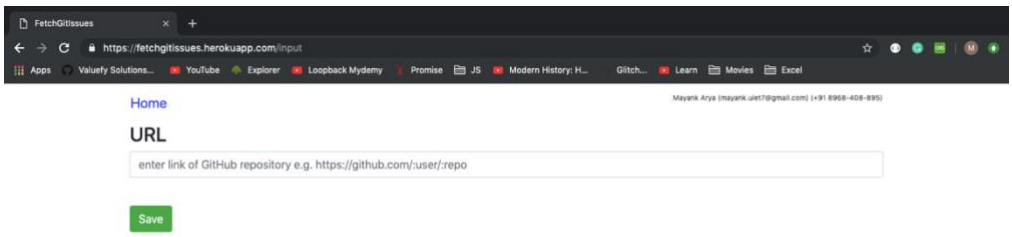
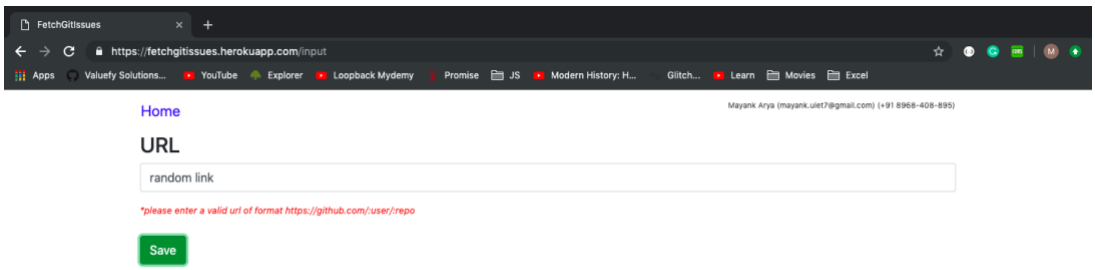
WebApp

1. The landing page:

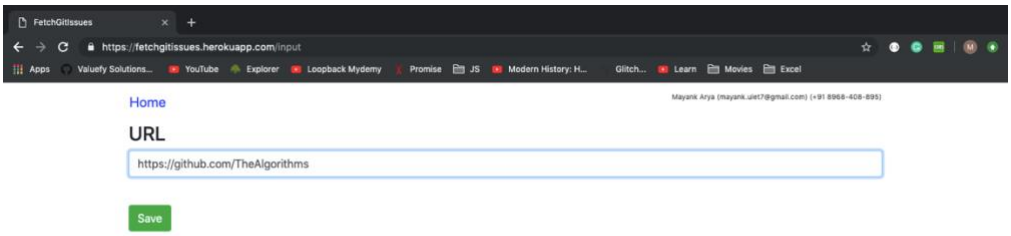
a. It is what parentElement component refers to in the code. It contains a form with an input box to enter an URL and a placeholder. Looks like this:



2. Upon entering a random string, it gives error:

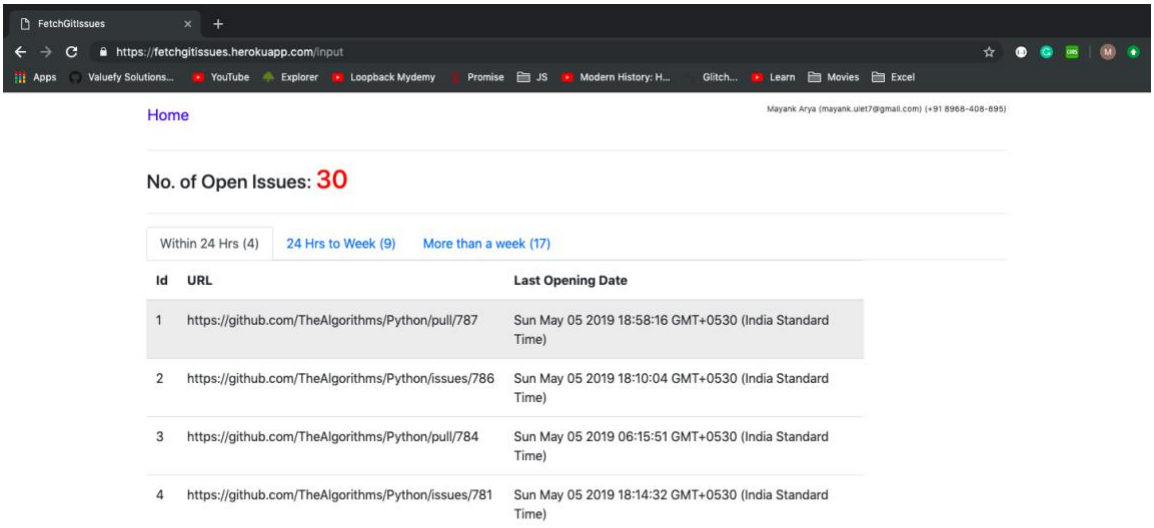


3. Upon entering a valid URL, like this:

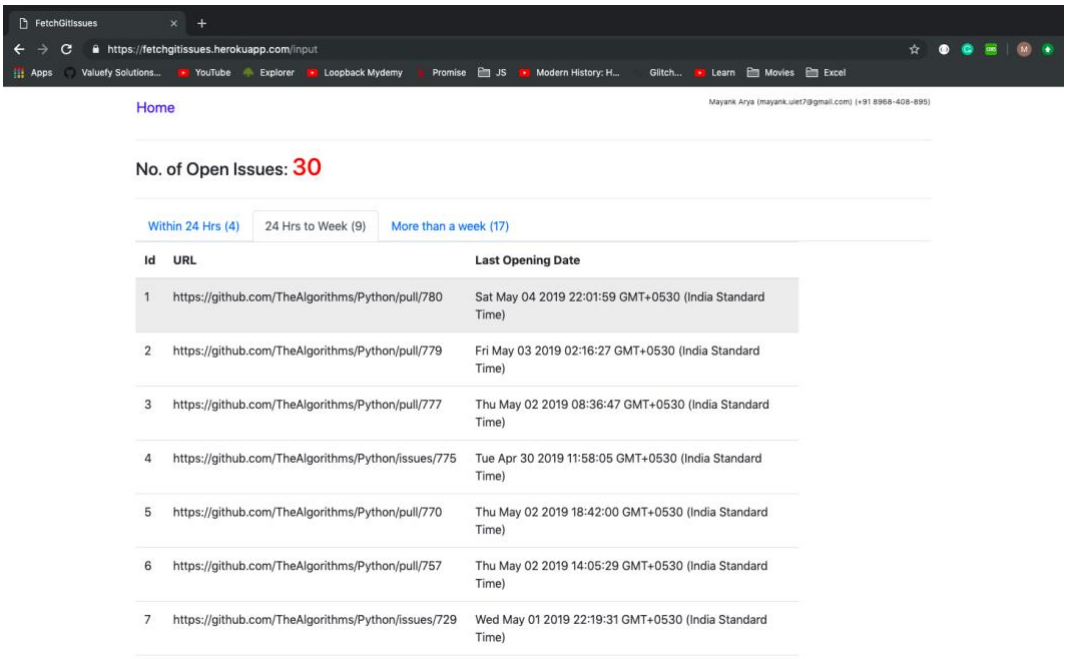


4. List of Issues page opens:
It is what childElement component refers to in the code. It contains:

a. a Home button to go back to the form page
b. No. Of Open Issues: <number>
c. 3 Tabs: each containing a table having an index, URL link of issue and last opened date.
    i. *Tab 1 contains table with issues opened within 24 hrs*.

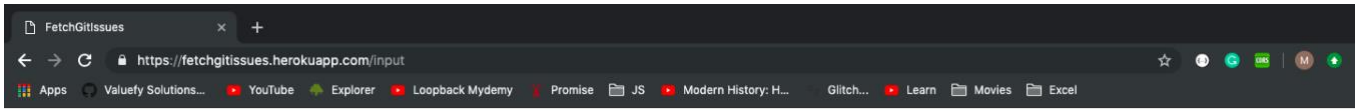


ii. *Tab 2 contains table with issues opened between 24hrs and a week.*



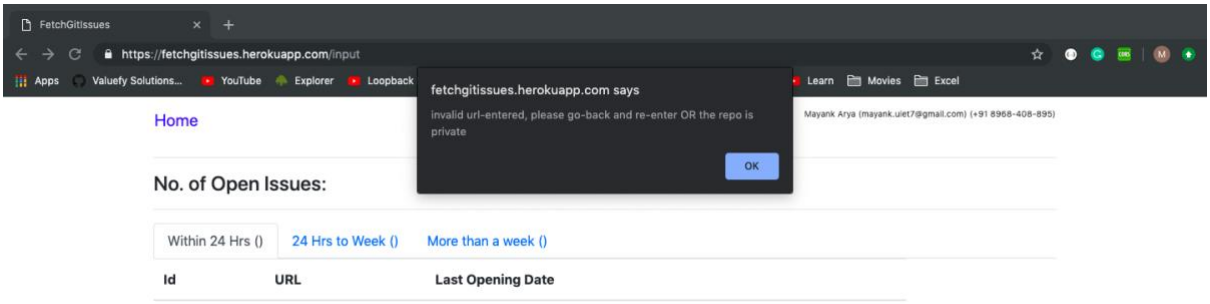
Id	URL	Last Opening Date
1	https://github.com/TheAlgorithms/Python/pull/780	Sat May 04 2019 22:01:59 GMT+0530 (India Standard Time)
2	https://github.com/TheAlgorithms/Python/pull/779	Fri May 03 2019 02:16:27 GMT+0530 (India Standard Time)
3	https://github.com/TheAlgorithms/Python/pull/777	Thu May 02 2019 08:36:47 GMT+0530 (India Standard Time)
4	https://github.com/TheAlgorithms/Python/issues/775	Tue Apr 30 2019 11:58:05 GMT+0530 (India Standard Time)
5	https://github.com/TheAlgorithms/Python/pull/770	Thu May 02 2019 18:42:00 GMT+0530 (India Standard Time)
6	https://github.com/TheAlgorithms/Python/pull/757	Thu May 02 2019 14:05:29 GMT+0530 (India Standard Time)
7	https://github.com/TheAlgorithms/Python/issues/729	Wed May 01 2019 22:19:31 GMT+0530 (India Standard Time)

iii. *Tab 3 contains table with issues opened more than a week ago.*

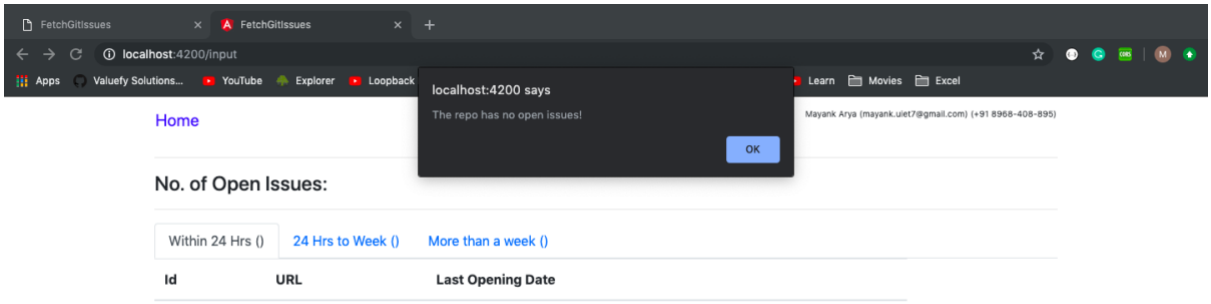


Id	URL	Last Opening Date
1	https://github.com/TheAlgorithms/Python/pull/769	Sat Apr 27 2019 00:21:39 GMT+0530 (India Standard Time)
2	https://github.com/TheAlgorithms/Python/pull/767	Thu Apr 25 2019 23:09:32 GMT+0530 (India Standard Time)
3	https://github.com/TheAlgorithms/Python/issues/764	Mon Apr 22 2019 04:14:00 GMT+0530 (India Standard Time)
4	https://github.com/TheAlgorithms/Python/issues/762	Sun Apr 21 2019 10:26:16 GMT+0530 (India Standard Time)
5	https://github.com/TheAlgorithms/Python/pull/760	Sat Apr 27 2019 15:14:30 GMT+0530 (India Standard Time)
6	https://github.com/TheAlgorithms/Python/pull/759	Sat Apr 20 2019 20:56:03 GMT+0530 (India Standard Time)
7	https://github.com/TheAlgorithms/Python/pull/758	Thu Apr 25 2019 00:02:04 GMT+0530 (India Standard Time)

5. If the entered Git link is invalid or belongs to a private repo, an alert is generated.



6. If the Git link belongs to a public repo but that repo has no open issues, then such an alert is generated (*to generate this alert I had to hardcode this value thus done on localhost:4200*).



Summary

Although the code is thoroughly commented, here is a quick summary of what is happening around inside.

How the app really works.

1. In the server directory is a file server.js, which uses express to start a server which either listens to a port assigned to it by the production environment or port: 3000.

To run the server enter command node .

This will log ***server started...*** *in the console.*

2. In the client directory is the Angular code.

Now we have two components viz.

parentElement and *childElement.*

And one service file which contains the code for hitting GIT-API.

2a. In parentElement component is a form which takes a URL as input and upon clicking save, this changes the value of a variable which controls the visibility of parentElement or childElement.

2b. Now the childElement is displayed, which basically contains the list of issues for that git repository.

2c. This childElement contains the business logic for hitting the GIT-API with the modified URL in service file (modified to a format accepted by GIT-API).

2d. From the response, the issues_url is fetched modified to only fetch open issues and again the function in service file is hit.

2e. This response contains all the issues which are then counted and arranged into different arrays, each for issues opened within 24Hrs, between 24Hrs and a week and more than a week ago.

2f. These arrays and count variable are two way binded with the html and thus the html or view is populated accordingly.