Pipeline Monitor

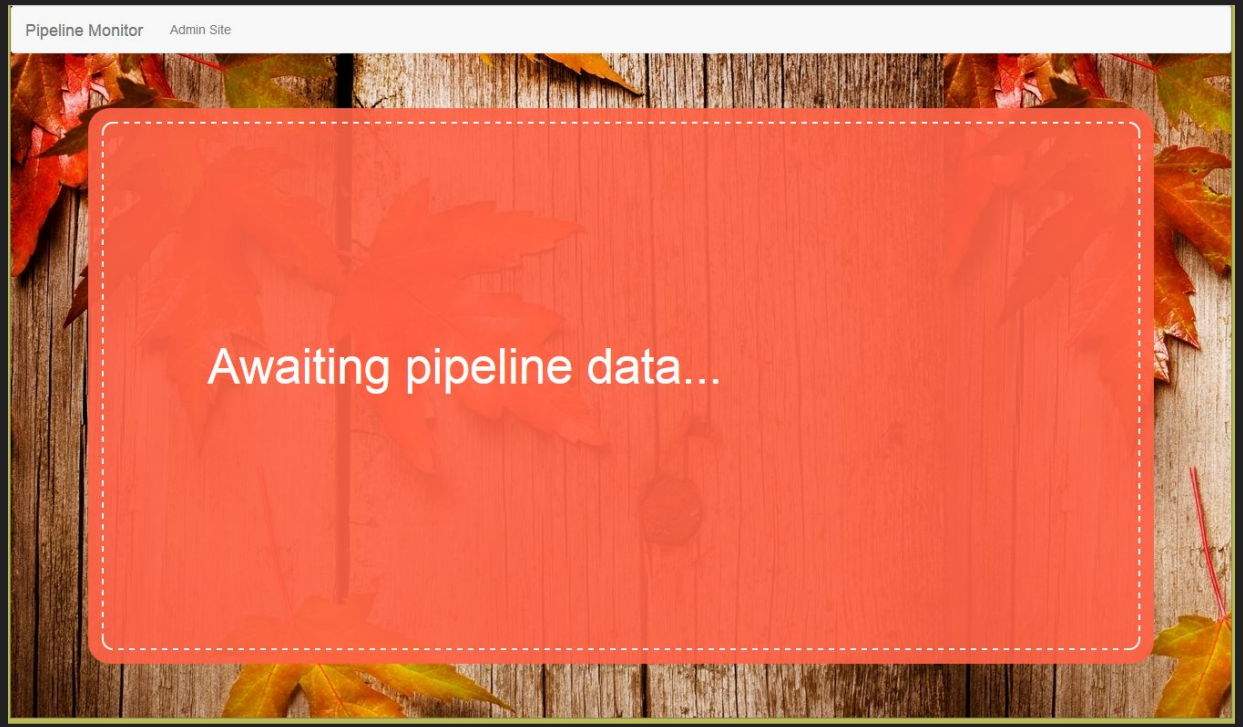
Daniel Chia, Eddie Chan, Susan Jiang, James Hohman

Work from each individual member

James - Added tornado to do server push to the pipeline, modified d3 chart to render on server push json data, added template driven responsive navbar
Daniel - Wrote units tests for news app, started adding selenium tests to test page features
Eddie - Fixed bugs, and added bookmark feature to news app
Susan - Used Goose library to extract article’s main image and summary

Websockets

Now pipeline uses tornado server to push data to front end via websockets.



Websockets

Page is fetched from Django server and rendered.

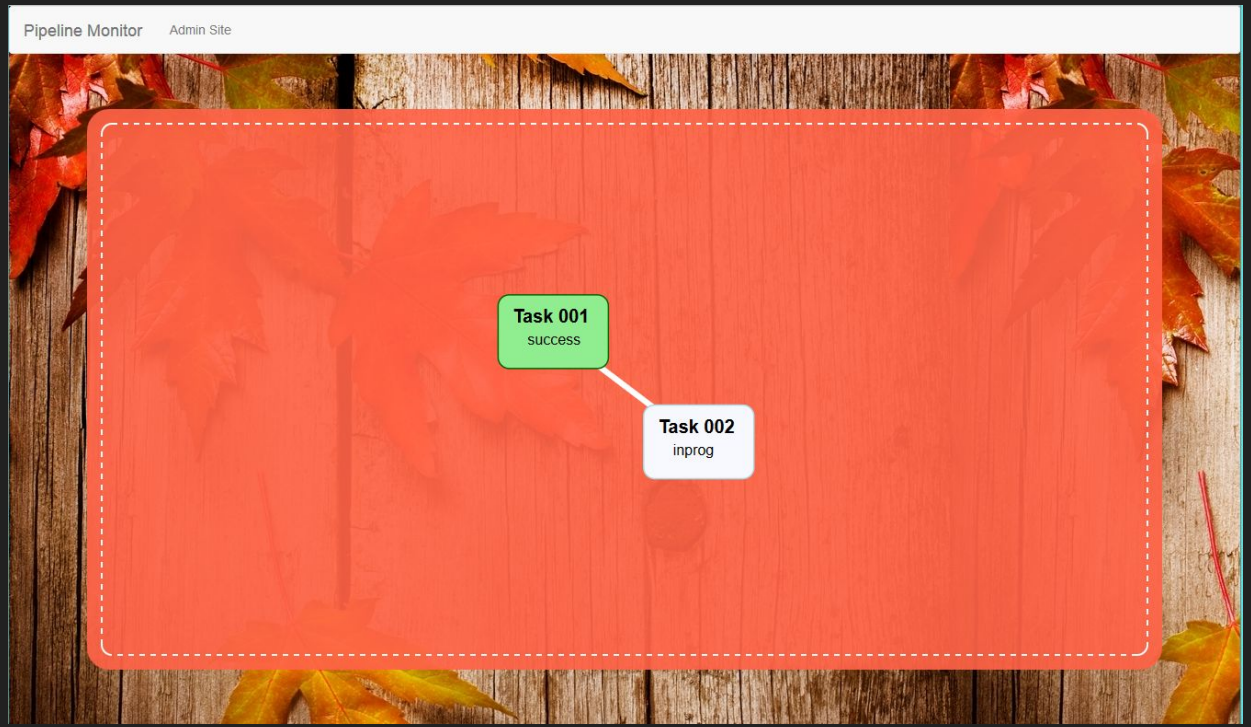
Downloads websocket.js to initialize websocket connection on load.

```
/**
 * Created by jhohman on 12/1/2015.
 */
$(document).ready(function () {
    var ws = new WebSocket("ws://localhost:8081/socket");
    ws.onmessage = function(event) {
        d3_fl_chart.render(event.data);
    };
});
```

json payload

json payload pushed from server.

d3 force layout chart is rendered on json payload reception.

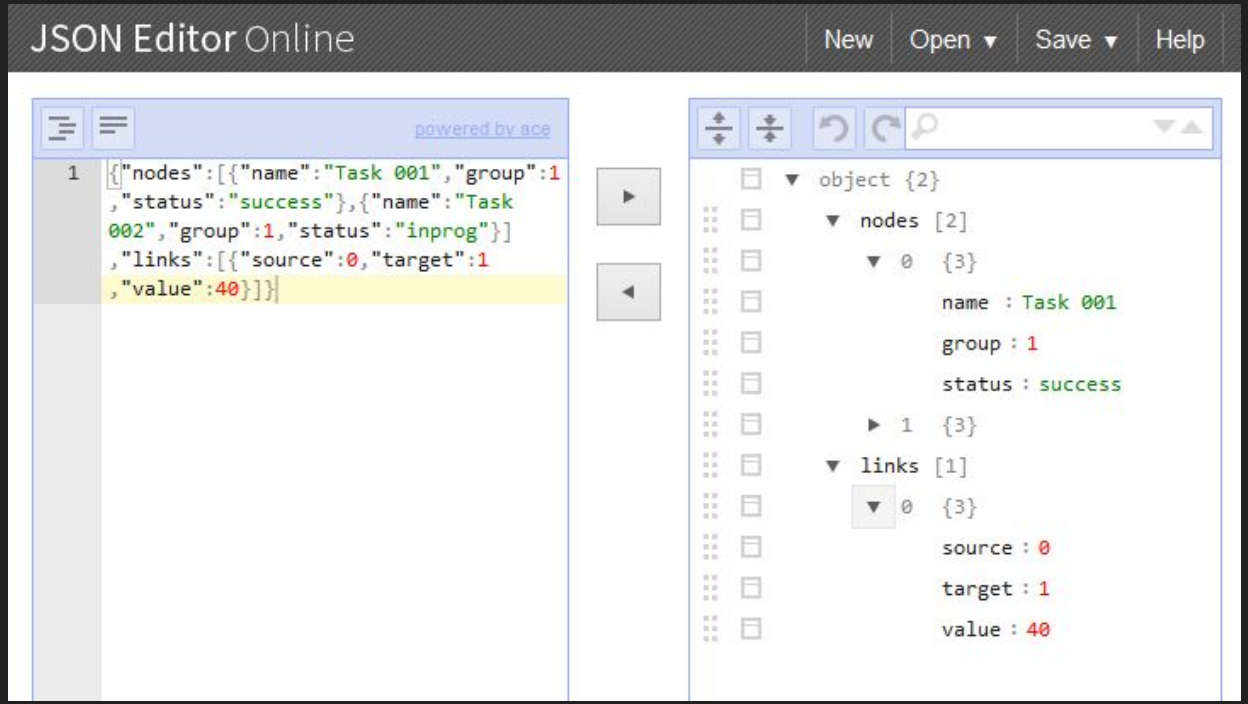


json payload

Here is the structure of the prototype json payload.

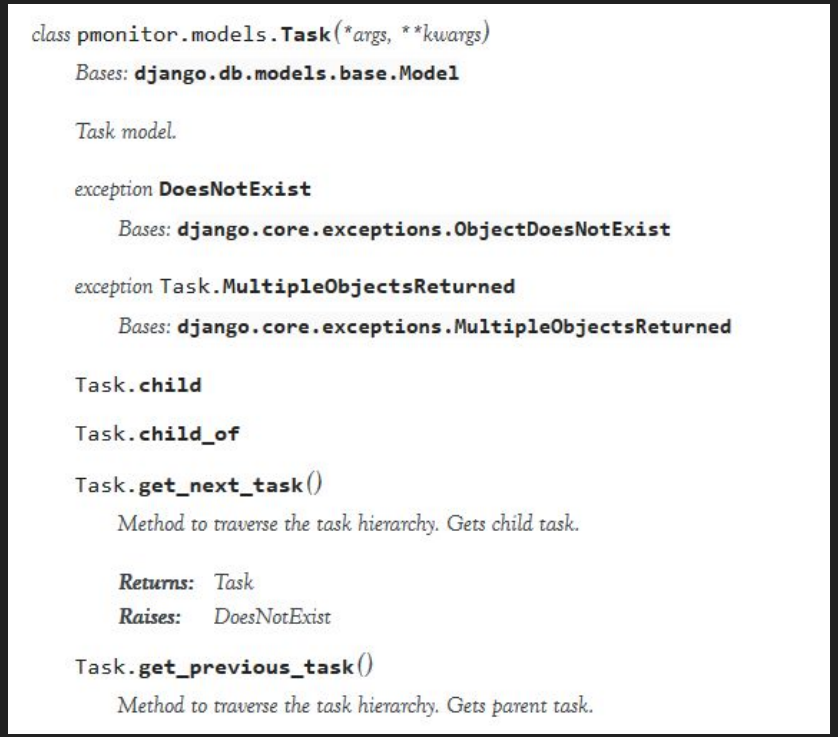
Will modify to include:

- Message
- Description
- URL (for detail view)



Sphinx Documentation

Excerpt of the Sphinx documentation generated for the pmonitor.models class.



class pmonitor.models.**Task**(**args*, ***kwargs*)

Bases: **django.db.models.base.Model**

Task model.

exception **DoesNotExist**

Bases: **django.core.exceptions.ObjectDoesNotExist**

exception Task.**MultipleObjectsReturned**

Bases: **django.core.exceptions.MultipleObjectsReturned**

Task.**child**

Task.**child_of**

Task.**get_next_task**()

Method to traverse the task hierarchy. Gets child task.

Returns: *Task*

Raises: *DoesNotExist*

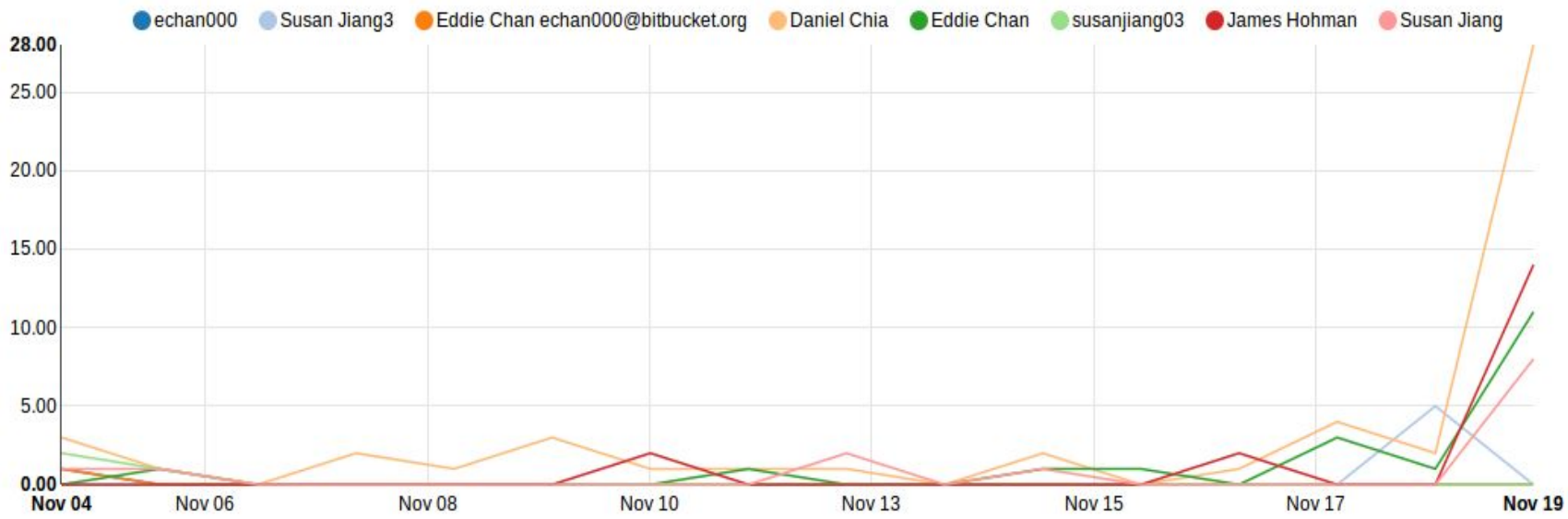
Task.**get_previous_task**()

Method to traverse the task hierarchy. Gets parent task.

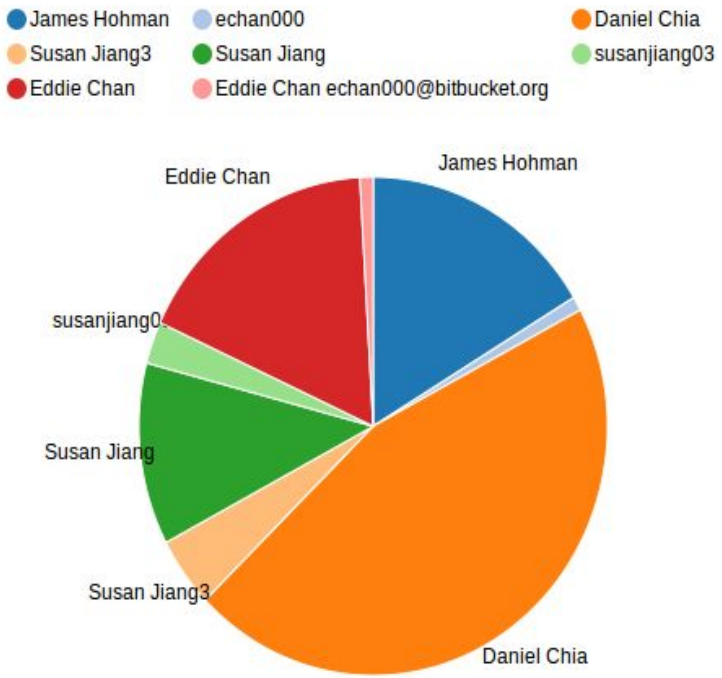
Technetium stats

Bitbucket User	Commits	Issues Opened	Issues Assigned	Issues Completed	Issue Comments
James Hohman	18	10	15	7	9
echan000	1	0	0	0	0
Daniel Chia	50	37	13	9	38
Susan Jiang3	5	0	0	0	0
Susan Jiang	13	0	6	4	0
susanjiang03	3	0	0	0	0
Eddie Chan	19	0	12	8	0
Eddie Chan echan000@bitbucket.org	1	0	0	0	0

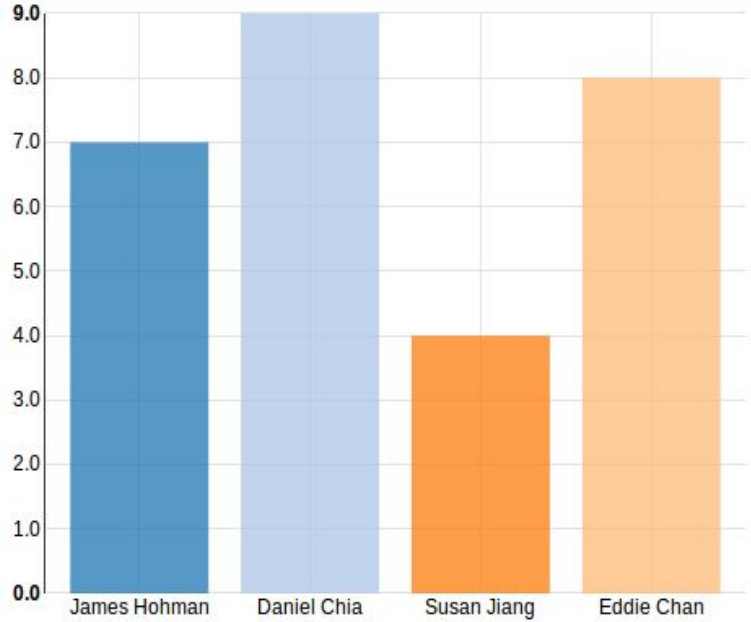
Commit Activity By Users



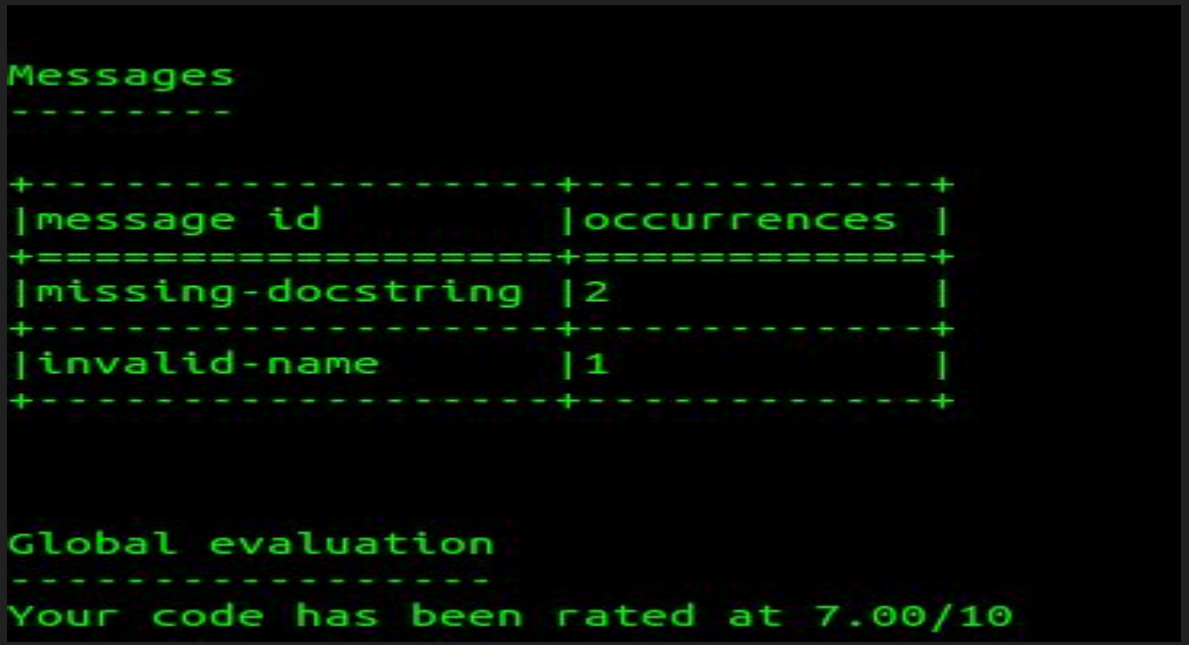
Commit Breakdown By Users

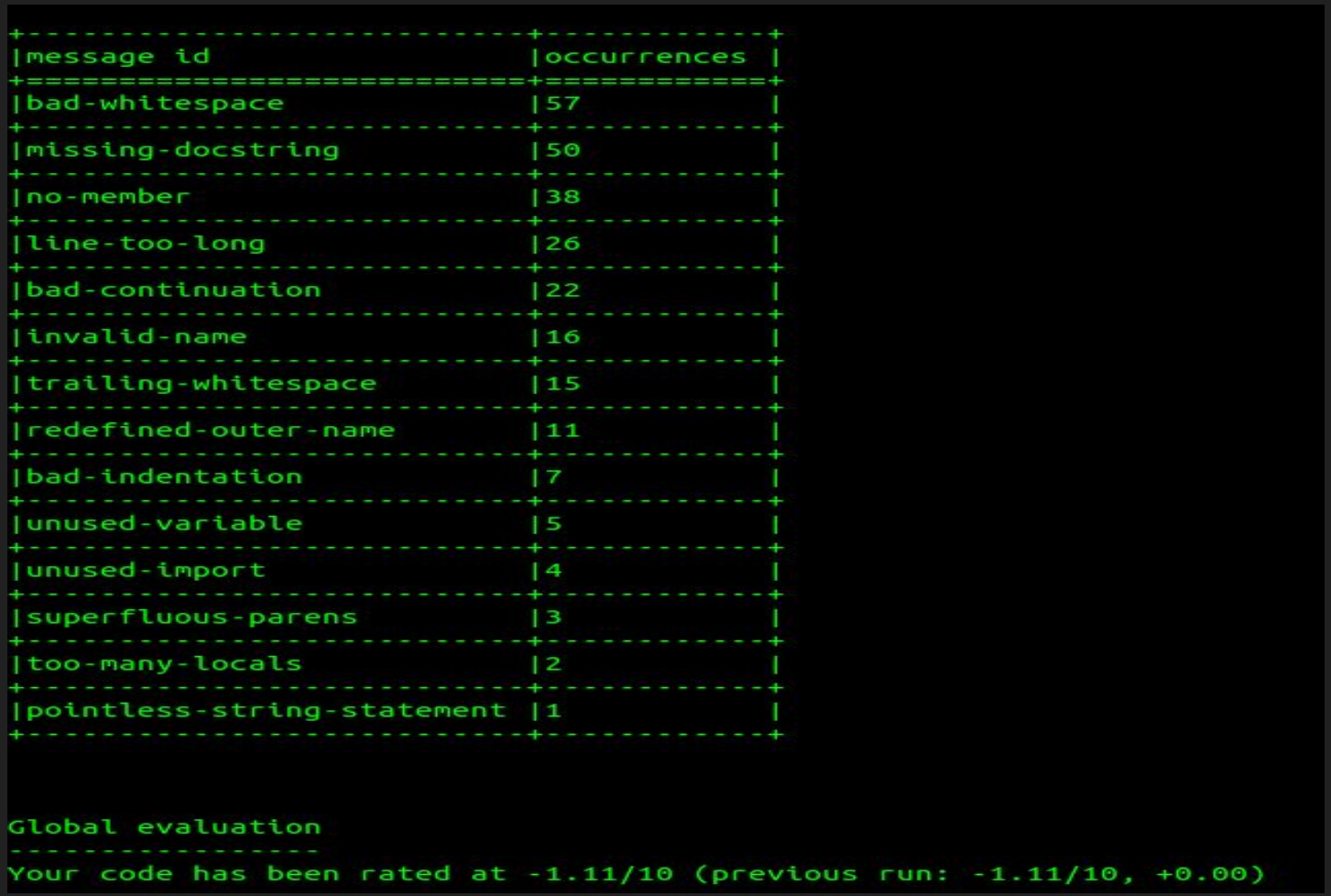


Issues Completed By Users



Pylint Scores on News and Pmonitor





message id	occurrences
bad-whitespace	57
missing-docstring	50
no-member	38
line-too-long	26
bad-continuation	22
invalid-name	16
trailing-whitespace	15
redefined-outer-name	11
bad-indentation	7
unused-variable	5
unused-import	4
superfluous-parens	3
too-many-locals	2
pointless-string-statement	1

Global evaluation

Your code has been rated at -1.11/10 (previous run: -1.11/10, +0.00)

For the final demo day

- Bridge the tasks on the news app to the pipeline monitor
- Fix the awful pylint scores on news app
- Deploy changes to live site

Final Status Meeting - Pipeline Monitor

Daniel Chia, Susan Jiang, Eddie Chan, James Hohman

Work Distribution

Daniel - Scrum master, wrote units and functional tests and integrated everyone's work
Susan - Worked on using Goose library to extract article content + Dashboard with analytics
Eddie - Worked on most of the News app, wrote documentation
James - Worked on the Pipeline, using technologies such as Tornado and D3.js

Site is live!

Check it out at

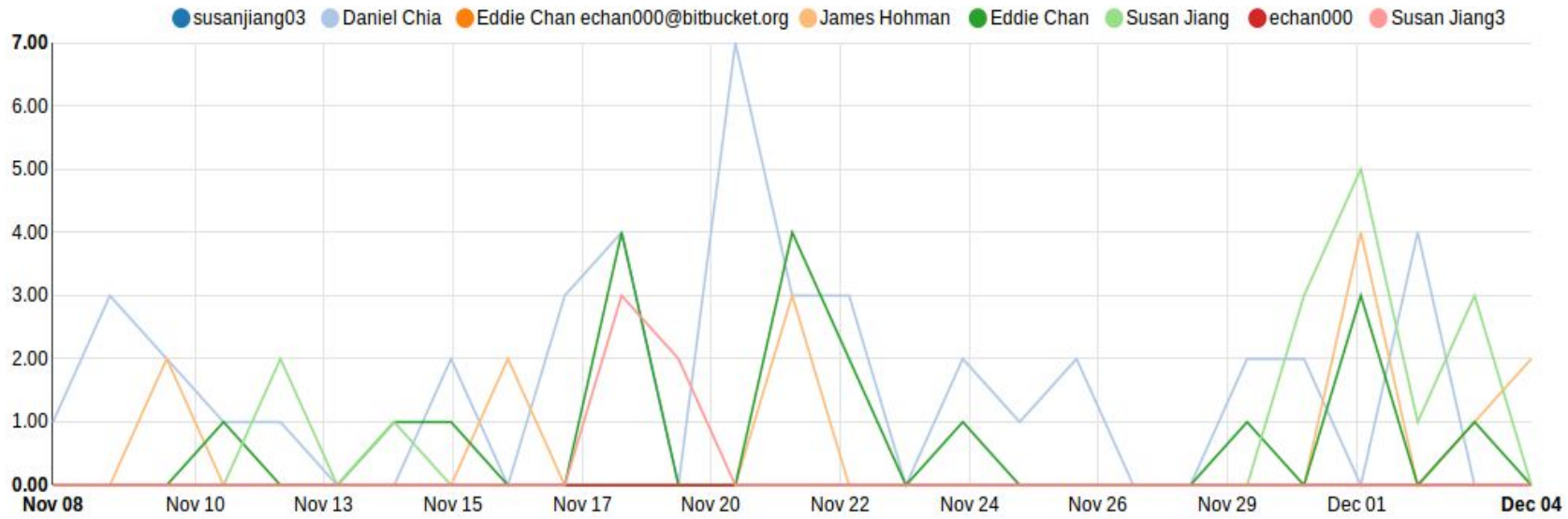
‘danielchia.me/pipeline’
-> navigate to pipeline
-> Dashboard hasn’t been pushed up yet

-> Not Narcissism, free domain from GitHub Student Package

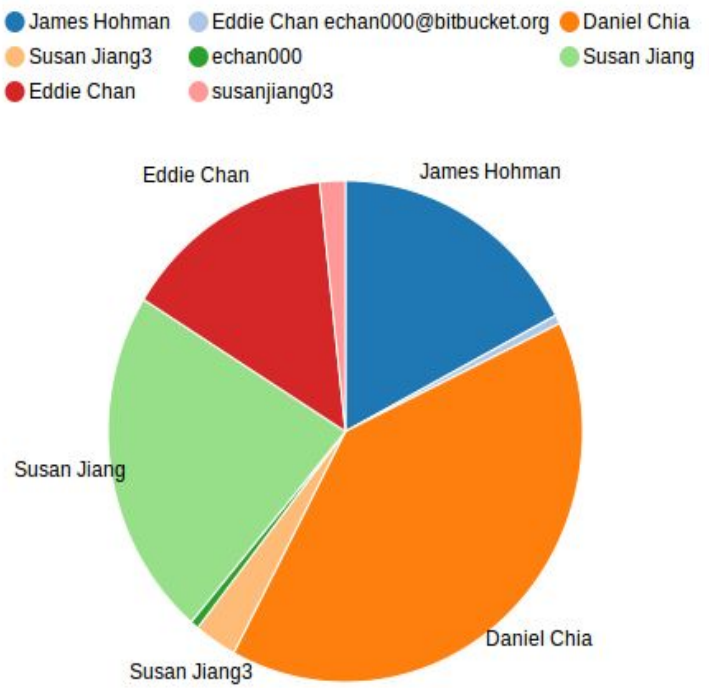
Stats for nerds

Bitbucket User	Commits	Issues Opened	Issues Assigned	Issues Completed	Issue Comments
James Hohman	30	12	16	12	23
Eddie Chan echan000@bitbucket.org	1	0	0	0	0
Daniel Chia	69	46	15	9	47
Susan Jiang3	5	0	0	0	0
echan000	1	0	0	0	0
Susan Jiang	39	0	9	5	3
Eddie Chan	25	0	15	9	0
susanjiang03	3	0	0	0	0

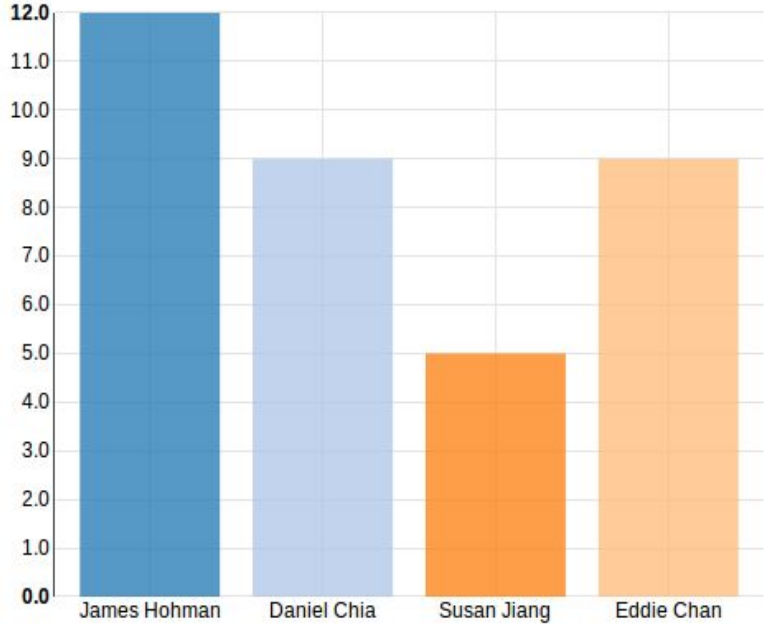
Commit Activity By Users



Commit Breakdown By Users



Issues Completed By Users



Coverage... is awful

core/__init__.py	1	0	0	100%
core/settings.py	17	0	0	100%
core/urls.py	4	0	0	100%
dashboard/__init__.py	0	0	0	100%
dashboard/admin.py	1	0	0	100%
dashboard/models.py	1	0	0	100%
dashboard/urls.py	3	0	0	100%
dashboard/views.py	186	170	0	9%
manage.py	6	0	0	100%
news/__init__.py	0	0	0	100%
news/admin.py	10	0	0	100%
news/models.py	22	0	0	100%
news/tests.py	137	0	0	100%
news/urls.py	3	0	0	100%
news/views.py	245	138	0	44%
pmonitor/__init__.py	1	0	0	100%
pmonitor/admin.py	10	0	0	100%
pmonitor/models.py	55	19	0	65%
pmonitor/urls.py	3	0	0	100%
pmonitor/views.py	10	4	0	60%

Pylint on News | Pipeline... still eh

News

```
Global evaluation
-----------------
Your code has been rated at 7.10/10 (previous run: 7.23/10, -0.13)
```

Pipeline

```
Global evaluation
-----------------
Your code has been rated at 7.01/10 (previous run: 7.01/10, +0.00)
```

Documentation, We got it!

Welcome to Pipeline Monitor's documentation!

This is a Django project based on two apps, News and Pmonitor. The main objective of this project is to provide visualization of a process through its many stages.

Here the process is defined by our *News* app, which is a news aggregator. Our second app, *Pmonitor*, collects a series of tasks generated by the *News* app displays them through a D3.js image (pipeline looking).

To start using the app, clone a copy, install the *Requirements* and spin up the the Django development server, 'python manage.py runserver'

Contents: