Git OSS-um Design Review II



Team Members

- Gary Baker (Team Lead)
 - o gpb27@nau.edu
- Van Steinbrenner
- Stephen White

Mentor: Ana Steinmacher Sponsor: Igor Steinmacher

What is Open Source Software?

Principles:

- Transparency
- Open exchange
- Collaborative participation
- Community-oriented development
- Licenses, rights to study and change code



Problem Statement

- Contribution process to open source
 - o README.md
 - Issue Tracking
 - Wiki Pages
 - Code of Conduct
- Newcomers
 - O Where do I start?



Our Client

- Dr. Igor Steinmacher, professor at NAU
- Research includes:
 - Support for newcomers in OSS
 - Contributor behavior in OSS
 - Crowdsourcing software engineering
- FLOSScoach
 - Data is manually fed
 - Manual maintenance of content
 - Data is not up-to-date







Solution Overview







Store



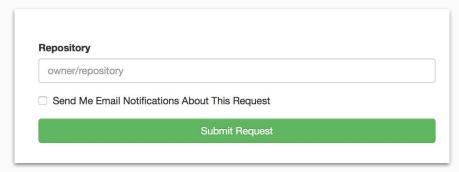
Analyze

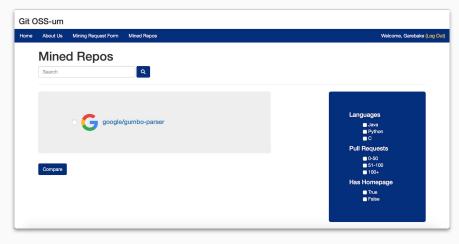


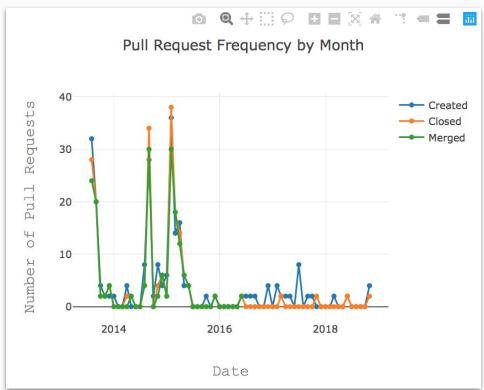
Display

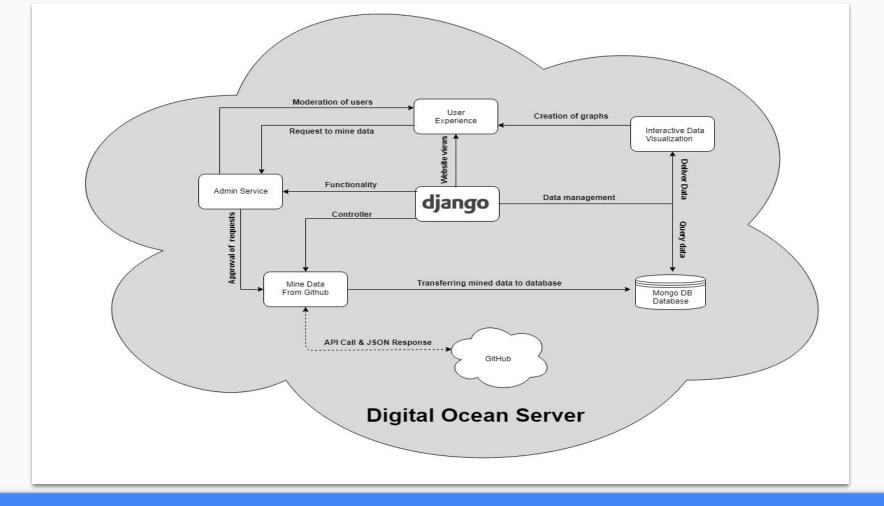


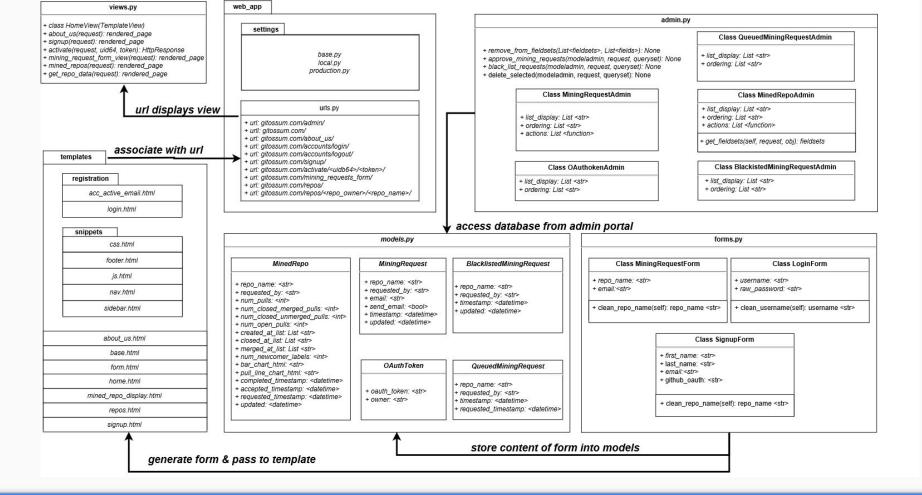
Host





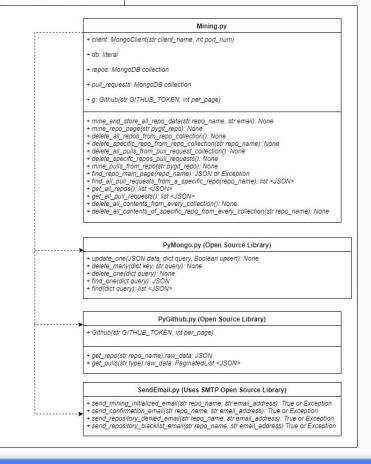






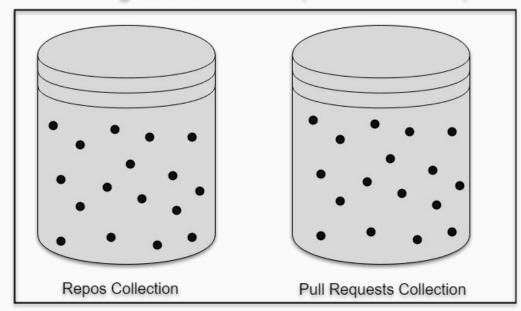
ADMIN APPROVE

Mining_Scripts Package



```
// 20181110140906
      // https://api.github.com/repos/rails/rails
         "id": 8514.
         "node_id": "MDEwOlJlcG9zaXRvcnk4NTE0",
        "name": "rails".
        "full_name": "rails/rails",
        "private": false,
10 +
        "owner": {
          "login": "rails",
          "id": 4223,
12
          "node id": "MDEyOk9yZ2FuaXphdGlvbjQyMjM=",
13
          "avatar url": "https://avatars1.githubusercontent.com/u/4223?v=4",
          "gravatar_id": "",
15
          "url": "https://api.github.com/users/rails",
16
          "html url": "https://github.com/rails",
17
          "followers_url": "https://api.github.com/users/rails/followers",
18
          "following_url": "https://api.github.com/users/rails/following{/other_user}",
19
20
          "gists_url": "https://api.github.com/users/rails/gists{/gist id}",
          "starred_url": "https://api.github.com/users/rails/starred{/owner}{/repo}",
21
          "subscriptions_url": "https://api.github.com/users/rails/subscriptions",
22
          "organizations url": "https://api.github.com/users/rails/orgs",
23
          "repos url": "https://api.github.com/users/rails/repos",
24
          "events url": "https://api.github.com/users/rails/events{/privacy}",
25
          "received events url": "https://api.github.com/users/rails/received events",
26
          "type": "Organization",
27
          "site admin": false
28
29
```

MongoDB Database (● = JSON File)



Risks & Obstacles

Risks

- We provide facts, not opinions
- Repository name changes
- Microsoft changing API
- Errors during data collection



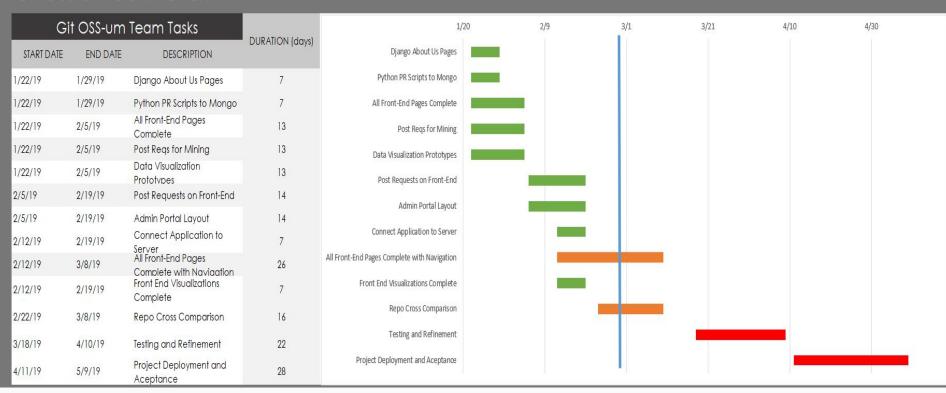
Obstacles

- Speed of data delivery to the user.
 - Increased mining time, decreased display time.
- Learning Django syntax and combining with HTML/CSS.



Project Plan & Schedule

Git OSS-um Gantt Chart



Conclusion



- Previous platform
 - FLOSScoach
- Solution:
 - Django: admin
 - o Dynamic interactive web app
- Risks: delivery and API changes
- Schedule



Git OSS-um Design Review II



Team Members

- Gary Baker (Team Lead)
 - o gpb27@nau.edu
- Van Steinbrenner
- Stephen White
- Contact Us: gitossum@gmail.com
- Visit Us: gitossum.com