TEAM HOTSPOTTER

Developers

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Client

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ABOUT OUR PROJECT

<u>Overview</u>

Scan Git based repositories to find potential buggy code based off project contributors and file change frequency

Domain and Business

Developers

- Tracking bug-fixing commits
- Testing code before pulling into project master

Project Managers

 Assigning troublesome tasks to more experienced developers

Open Source Contributors

 Looking to contribute code to most relevant portions of the codebase

ABOUT OUR PROJECT (CONT.)

Core functionality

Scans repositories finding bug hotspots using dynamic metric

Run from remote server

Provide centralized database to store scan results and repository

- Automatic repository syncing
- Scan result history

Create visualization of repository with heat map

• Filter repository heat map based on author, file, etc.

PROJECT PLAN: MANAGEMENT

- Defined GIT practices
 - Collaboration and responsibility
- Jira
 - Agile Planning
- Jenkins
 - Automated quality/tests
 - Automated deployment

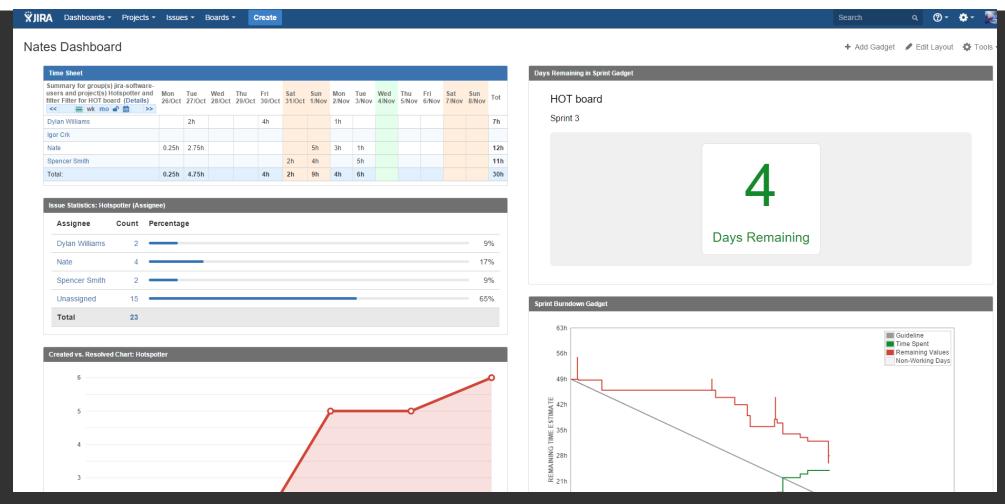


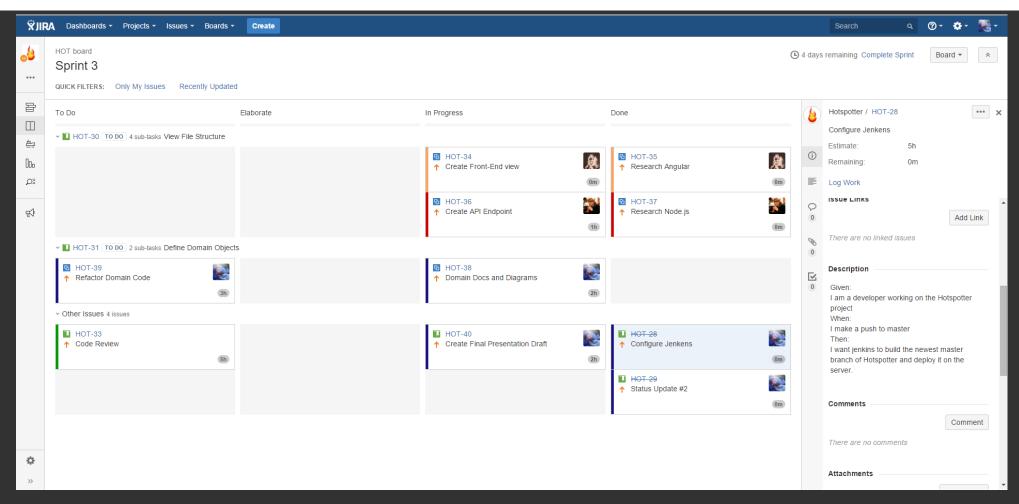


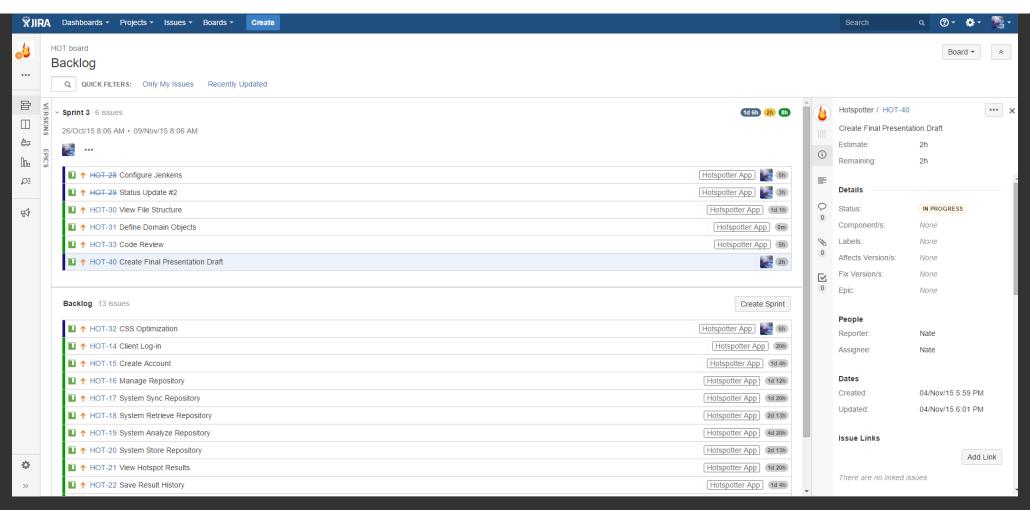


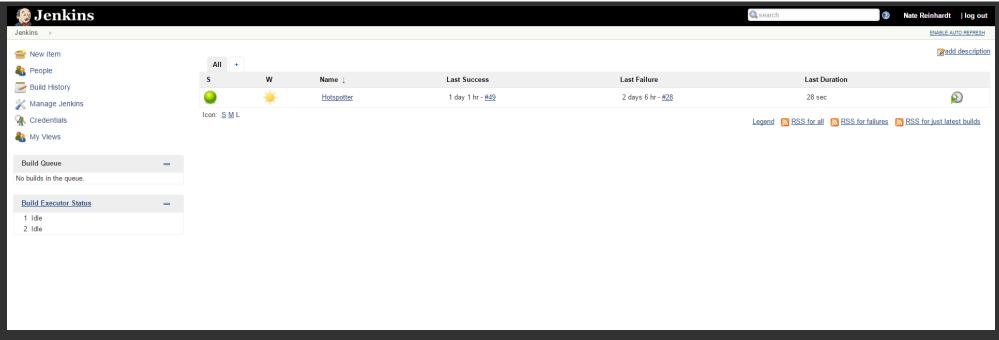














PROJECT PLAN: RISKS

Tech Stack Knowledge

Mitigated by:

Sharing resources and guide in the project README. Every time we found something new individually we made an effort to update the readme for other team members to use.

Agile Methodologies

Mitigated by:

- Jira
- Jenkins
- Defined Git plan

recommend everyone start here

(https://www.youtube.com/watch?v=AEE7DY2AYvI&list=PLFI3T969CR9TJVLgjn8rtBUIqb27EqqMi&index=1)

Back End/NodeJS

(http://loopback.io/)

(https://www.youtube.com/watch?v=GK-tFvpIR7c)

(https://www.airpair.com/node.js/posts/top-10-mistakes-node-developers-make

Front End/AngularJS

Angular Best Practices/Style Guide

(https://github.com/johnpapa/angular-styleguide)

Angular Attribute Binding Explanation

(https://gist.github.com/CMCDragonkai/6282750)

MEAN setup guides

(https://scotch.io/tutorials/setting-up-a-mean-stack-single-page-application)

(https://www.youtube.com/watch?v=JnMvok0Yks8

(http://modemweb.com/2014/04/21/mean-stack-a-quick-start-guide/)

(http://cwbuecheler.com/web/tutorials/2013/node-express-mongo/)

(https://thinkster.io/mean-stack-tutorial)

(https://egghead.io/)

Angular Front End Styling Libraries

(http://www.google.com/design/spec/style/color.html#

(https://www.google.com/design/spec/material-design/introduction.html)

(http://tympanus.net/codrops/

(https://design.google.com/)

(http://stackoverflow.com/questions/14741988/twitter-bootstrap-navbar-with-angular-js-collapse-not-functioning)

(https://www.codementor.io/angularjs/tutorial/making-a-sliding-menu-with-directives-less-css)

(https://material.angularjs.org/latest/)

Grunt Guides

(http://raibledesigns.com/rd/entry/using_grunt_with_angularjs_for)

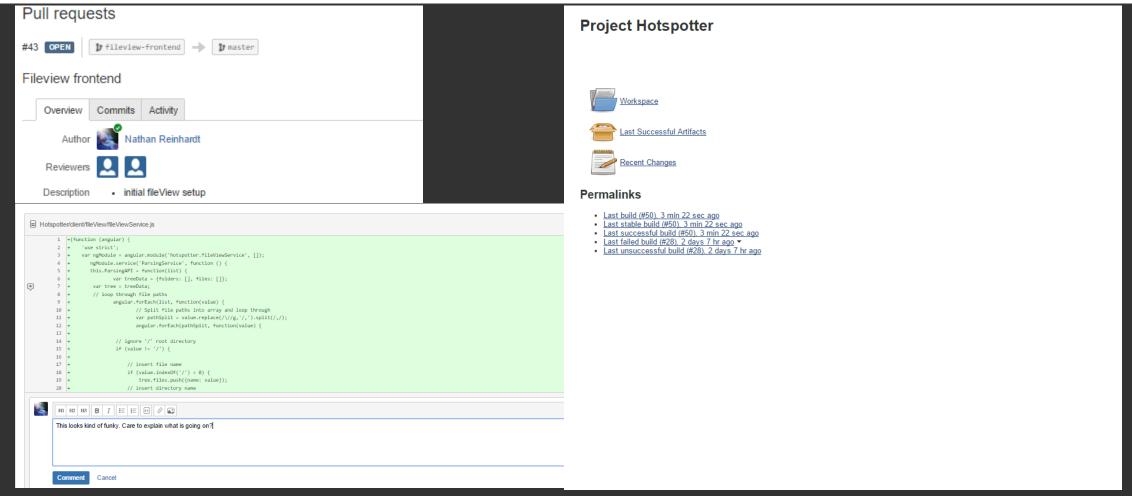
(https://scotch.io/tutorials/a-simple-guide-to-getting-started-with-grunt)

PROJECT PLAN: QUALITY & TESTS

- Git
 - We defined a Git process to maintain consistency
- Bitbucket
 - Pull requests
 - Full Team Approval
 - Comments on code segments that might have conflicts or opinions



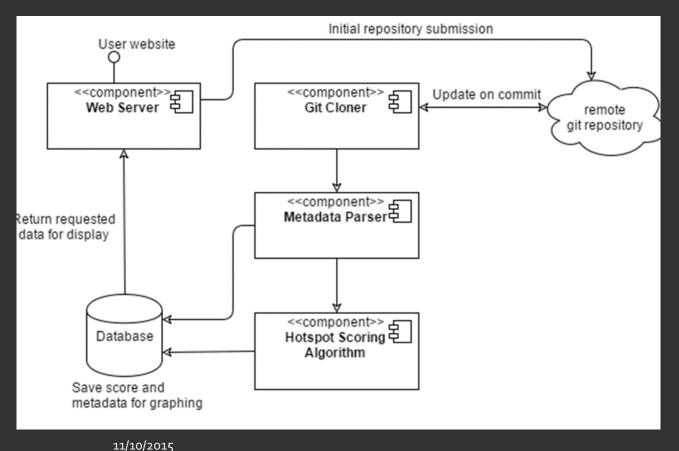
PROJECT PLAN: QUALITY & TESTS (CONT.)



11/10/2015 CS425 Team Hotspotter 11

ARCHITECTURE

Client/Server Configuration



MEAN Tech Stack



MongoDB- Database



Express - Middleware



AngularJS – Client Side



NodeJS- Server Side

EFFORTS & DELIVERABLES

- Prototype
- *INSERT GIF/VIDEO OF PROTOYPE*
- *INSERT GIF/VIDEO OF CODE SETUP*

EFFORTS & DELIVERABLES (CONT.)

- Prototype
- *INSERT GIF/VIDEO OF PROTOYPE*
- *INSERT GIF/VIDEO OF CODE SETUP*

CS₄₂₅ EXIT STRATEGY

- Met:
 - Working prototype with base/minimal functionality of visualization
 - Familiarization of tech stack of all members of the team

- Was Not Met:
 - N/A

POST-MORTEM

• Good:

- Processes set-in and adopted by every team member.
- Great base project to work off of for next semester.
- Team learned a completely new tech stack.

• Bad:

- Time planning was slow at first.
- Didn't get to writing tests for the prototype

CS 499

Next Semester

- Our goal going forward is to use all the processes we set this semester and become a high performing agile team.
- We want to take the existing prototype and start to add scoring algorithms and UI changes
- Implement a dynamic testing suite for existing code.
- Develop with Angular and Node "best practices" in mind.

Questions?