

Code Workstation

Status Report 4

10/29/2015 - 11/18/2015

<https://github.com/lrickard/CodeWorkstation/wiki>

Lukas Rickard - Project Leader - l_rickard@u.pacific.edu

Jake MacMillan - Integrations Lead - j_macmillan1@u.pacific.edu

Project Schedule

Current Schedule

- 9/11/2015 - 9/23/2015 - Create outlines for all documents
- 9/11/2015 - 9/23/2015 - Figure out likely licensing
- 9/11/2015 - 9/23/2015 - Have considerable content in Requirements Analysis Document
- 9/11/2015 - 10/7/2015 - Figure out some likely APIs and Libraries
- 9/24/2015 - 10/7/2015 - Test out one of the APIs or Libraries
- 9/24/2015 - 10/28/2015 - Begin sketching plan of attack
- 9/24/2015 - 10/28/2015 - Create Content for Design Document
- 9/24/2015 - 12/2/2014 - Gather data from peers on which features would be most appreciated
- 10/8/2015 - 11/13/2015 - Create draft of Design Document
- 10/8/2015 - 11/13/2015 - Test remaining likely APIs
- 10/29/2015 - 11/13/2015 - Begin Final draft for Design document
- 11/13/2015 - 12/2/2015 - Finish 75% of test plan
- 11/13/2015 - 12/2/2015 - Revise Requirements Analysis documents based on Design
- 10/23/2015 - 12/2/2015 - Testing API/Library integration and feature compatibility

Code Workstation Gantt Chart	9/11	9/18	9/25	10/2	10/9	10/16	10/23	10/30	11/6	11/13	11/20	11/27	12/4
Create docs outlines													
Figure out likely licensing													
Begin filling in RAD													
Figure out likely APIs and libraries													
Begin testing APIs and/or libraries													
Begin sketching plan of attack													
Create content for design doc													
Gather data on appreciated features													
Create draft of design doc													
Test remaining likely APIs													
Begin final draft for design doc													
Finish 75% of test plan													
Revise RAD based on design doc													
Testing API/library integration													

Schedule Changes

We want to Stay on track as much as possible, but we did underestimate how much time we would have towards the end of the semester. Thus, we will be concentrating on the Test Plan and System Design Document in these last 2 weeks. We hope that at least a small amount of test driven development will help us moving forward next semester. We will still check over the RAD before the end of the semester but we do not plan to spend too much time on it. We will also save more implementation details for next semester. We think that our System Design Document and Test Plan together will be enough for use to start productive work next semester. As a result we have removed it from our current plan.

Current Status

We have done a great amount of testing and figuring out exactly how we will implement the features we want in our project. This was necessary because we were not sure we could get everything done that we wanted to get done. It was hugely educational experience and gave us great insight into possible design techniques. We plan to write all our code in classes which extend existing PyQt classes because that is the most efficient and organized way to use the library and API. It is not the most outright powerful way to use Qt, but the safety it gives us during design and testing will no doubt save us worries. In addition, we have done a decent amount of work on the System Design Document and we hope to finish it 80% of the way in the next week or so. We did not start on the test plan, but we did look over all our documentation. We are not showing it in the diagrams we currently have, but we will need to extend the ShowContextMenu class for each of our existing classes to control the right click options. We might leave documenting this till we are implementing because right click menus are somewhat complicated.

Plan for 11/18/2015 - 12/9/2015

Start on:

1. Test Plan

Work on most:

1. Test Plan
2. Design Document

Finish:

1. 80% of Design Document
2. Most of Test Plan
3. Minor Fixes in RAD to make more accurate with final plans

Challenges and Concerns

Our main challenge is finding time in this mad scramble at the end of the semester.

Updated Artifacts

Included with Update

Project Proposal (Unchanged)

Requirements Analysis Document (Unchanged)

Updated Wiki and Repository (Linked, not included in zip)

- Added Some Code we will work and test from
- Added System Design Document (Not 100% up to date)
- Added Status Report 4

Status Report 1, 2, 3, and 4 (These will not change)

System Design Document

- Class Diagrams
- Class Specifications
- Interaction Diagrams

NOT Included in Update

Test Plan - Not started