To: Dr. Hayes
Course: 499001, Fall 2016
From: Josh DeLong, Nathan Hunter, Nick Schorr, Stephen Williams
Subject: Use Cases for SQS training website
Date: September 7, 2016

1. Planning and Estimating

(A)

An estimation of the work required for the SQS training website project will be allocated according to the different phases the project will be developed through. Within these phases, work and effort can be estimated more accurately and will give a better understanding of what amount of time needs to be allocated to the project.

The first phase will involve the initial setup of the AD, database for storing email addresses, and an email server. This effort will be a single sprint of work and these objects will hopefully not be touched again as they are used as the foundation for the rest of the project. There will be no story points or functions implemented in these frameworks, but the effort to set them up is not negligible. The estimation of each will be given as Small.

The second phase will be building the website that will be the common interface that links to all other objects in the project (see appendix III). Within the website, we can break the functionality down into the listed user interactions. Though each interaction may involve several functions, a holistic view is sufficient for a size estimate.

For size estimation we will loosely hold to this key:

Very Small (elementary code that should take <1 hour to write)
Small (elementary code that should take 1-5 hours to write)
Medium (somewhat complex code that should take 5-10 hours to write)
Large (complex code that should take > 10 hours to write)

An hour estimate will be used instead of length of code, as algorithms can take a large amount of time to formulate even though it may not be correctly represented in the numerical count of lines written.

7.1 User Register

This function will need to communicate with the AD, and will also be an environment to implement breaks as created. The size of this function will be estimated as Small.

7.2 User Login

This function will need to communicate with the AD, and will also be an environment to implement breaks as created. The size of this function will be estimated as Small.

7.3 User Logout

This function will need to communicate with the AD. The size of this function will be estimated as Small.

7.4 User Subscribe to Letter

This function will need to communicate with the AD and Email Server. The size of this function will be estimated as Small.

7.5 User Unsubscribe to Letter

This function will need to communicate with the AD and Email Server. The size of this function will be estimated as Small.

7.6 User Views Homepage

This function will not need to communicate with the AD or Email Server. The size of this function will be estimated as Very Small.

7.7 User Views Training Section

This function will contain hidden breaks and may increase in complexity as created. The size of this function will be estimated as Medium.

7.8 Users Views Training Page

This function will contain hidden breaks and may increase in complexity as created. The size of this function will be estimated as Medium.

The total size will be estimated as a single function that should take less than an hour, five 1-5 hour functions, and two functions taking anywhere from 5 - 10 hours.

(B)

This project will be a low risk project as there are very few systems talking to each other by design of this only being a training website.

Risk List:

- Un-planned requirements for project received from customer
  Action to Take: Communicate with and allocate resources accordingly to achieve new tasks in timely manner
- Customer becomes disengaged with the project
  Action to Take: After communication with customer has been tried multiple times and failed, the course teacher shall be notified with the customer ccd to the email
- Resource(s) becomes disengaged with the project
  Action to Take: After attempting to reach out to the resource(s) in question, the teacher shall be notified and redistribution of work shall be allocated to the remaining resources.
- Estimates are Inaccurate
  Action to Take: The resources will discuss the estimates collectively and redistribute appropriate estimates to the best of their ability.

- Scope of systems is larger than anticipated
  Action to Take: A detailed explanation will be provided to the customer stating what was assumed by the project team from the original design meeting and a formal request for a more detailed requirement specification will be made to the customer. Teacher will be notified.
- Project Team member misunderstands portion of work assigned to him/her
  Action to Take: A re-explanation will be given as well as clarification through communication. Re-allocation of resources may be necessary.
- Architecture of AD fails to work with necessary system requirements
  Action to Take: Research and think-tank with group to come up with functioning directory
- Architecture of Email Server fails to work with necessary system requirements
  Action to Take: Research and think-tank with group to come up with functioning email server
- Design fails customer review
  Action to Take: Discuss with customer what parts of the project fell short. Change of design or environment may be needed.

(C)

The high level schedule will be represented using the SCRUM cycle provided in the course:

Scrum Cycles:

1 – Mon, Oct 3 to Mon, Oct 17

Scrum Master: Stephen Williams
BackLog Items:
Work Units (Creation of Website, AD, and email server [all high priority])
Team Members: Josh DeLong, Nathan Hunter, Nick Schorr, Stephen Williams
Time Estimate 3-15 hours

2 – Mon, Oct 17 to Mon, Oct 31

Scrum Master: Nick Schorr

BackLog Items:

Work Units (User Login [high], User Logout [high], User Register[high], User Subscribe to Letter[high], User Unsubscribe to Letter[high], User Homepage [low])

Team Members: Josh DeLong, Nathan Hunter, Nick Schorr, Stephen Williams

Time Estimate 5-25 hours

3 – Mon, Oct 31 to Mon, Nov 14

Scrum Master: Josh Delong

BackLog Items:

Work Units (User Training Section [high] and User Training Page [high])

Team Members: Josh DeLong, Nathan Hunter, Nick Schorr, Stephen Williams

Time Estimate 10-20 hours

4 – Mon, Nov 14 to Mon, Dec 5

Scrum Master: Nathan Hunter

BackLog Items:

Work Units (Check with Customer for any additional requirements or changes with existing website, all changes will be high priority)

Team Members: Josh DeLong, Nathan Hunter, Nick Schorr, Stephen Williams

Time Estimate 0-20 hours