SEM5640 Group Project

Initial Project Plan

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# Introduction

## Purpose of this Document

The purpose of this document is to describe our choice of engineering methodology and our initial plan for the project.

## Scope

This document describes our adopted version of the Scrum agile engineering methodology and outlines an initial high-level roadmap for the project. The document also states which development practices and tools we aim to use throughout the project.

## Objectives

The objectives of this document are to:

* Outline Scrum and our reasons for choosing it.
* Define our Scrum process.
* List our tools and development practices.
* Present an initial project calendar.

# Chosen Methodology

We have chosen to follow the Scrum <insert\_ref> engineering methodology for this project. It is a well known agile way to manage a project.

# Sprint process

* Weekly planning
  + Tasks are chosen by team members to be worked on during the sprint. Tasks are selected based on priority in the product backlog.
  + Estimate the time for tasks before we take them and only take as many as we can commit to for that sprint/week.
* **No Daily Stand ups**
  + Alternatively, we will meet a few times a week for joint project work. During these sessions’ issues can be resolved. If problems need resolving outside these sessions the team will communicate the issues over email.
* Weekly review
  + To review code, tests and diagrams too if appropriate.
  + Small retrospective (good? bad? improvements/changes?)
  + Tasks are not complete unless code is properly tested.

# Tools and Practices

Some the proposed microsystems that comprise the project will be written in Java EE and ASP.NET. We will use the NetBeans 8 IDE for developing Java EE. We will use Microsoft’s Visual Studio IDE for developing in ASP.NET.

We are using docker to deploy our applications. This will be on a docker capable university machine.

Listed are our agreed development practices:

* Spike Work
* Unit, Mock & functional testing
* Pair work and review
* …etc TODO

# Project outline

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SPRINT | TUE (Planning) | WED | THUR | FRI | SAT | SUN | MON (Review) |
| Zero 15th-21st |  | Project Handout  (16/10/2019) | Research & Spike Testing |  |  |  |  |
| First 22nd-28th | Research & Spike Testing |  |  |  |  |  |  |
| Second 29th-4th | Write Documentation |  |  |  |  |  |  |
| Third 5th-11th | Document Milestone | Code Module Registration  Code Message Store |  |  |  |  |  |
| Fourth 12th-18th | Test file Authentication  Code Front-End Server |  |  |  | Integration Testing & Fixes |  |  |
| Fifth 19th-25th | Code Front-End Server |  |  |  |  |  |  |
| Sixth 26th- | Code Notifications  Add LDAP Auth |  |  |  |  |  |  |
| Seventh | Add Solr Search |  |  |  |  |  |  |
| Eighth | Full system integration and extra low priority work |  |  |  |  |  |  |
| Ninth | Integration Testing, Deployemnt & Fixes |  |  | Project End (13/12/2019) |  |  |  |

REFERENCES

|  |  |
| --- | --- |
| [1] | “Solr Homepage,” 26 10 2019. [Online]. Available: https://lucene.apache.org/solr/. |

DOCUMENT HISTORY

| *Version* | *CCF No.* | *Date* | *Changes made to document* | *Changed by* |
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