Individual Contribution

Individual Contribution – Samuel Raeburn

Document Control

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Samuel Raeburn	03/06/2015	1	Created Document

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Individual Contribution

1.0 Role within the team
My role within the company was as lead software tester. I chose this role as I feel I am a fairly strong programmer with the ability to mentally switch between viewpoints throughout the development. I think that my grounding in development leads itself well to this role as I am aware of potential pitfalls in a program before it has been written.

2.0 Role Specific Responsibilities
As described in the QA manual the primary role of the lead software tester is to ensure that all testing and integration runs to schedule (a schedule defined by the lead software tester).

In order to both create and keep to the schedule the lead software tester must work closely with the lead software developer.

It is not feasible for any one team member to test the entirety of the software alone so it is part of the lead software testers' responsibilities to generate and distribute testing strategies for different modules to the team. These strategies should outline what units require testing and how to test them. Upon distributing these strategies, the responsibility of collating the information upon completion of the test reports also falls to the lead software tester. Any bugs, regardless of their severity, found by either a team member or the lead software tester must be reported immediately to the lead software tester. Any bugs found in testing must also be put into the GitHub.

3.0 Individual Contributions
As lead software tester I found myself completing the majority of the testing. A summary of the test reports which I completed can be found in the 'testing & integration summary report' document included with this submission. As outlined in my job role it was also my responsibility to generate and distribute testing strategies to the team. All of the testing strategies in this project were created by me and form part of this submission. I distributed these testing strategies to the team, collated the resultant test reports and input the information to GitHub.

I played a large role in the maintenance of the GitHub repository. I ensured that all issues found due to testing were referenced on GitHub as an issue, I ensured that all issues were kept up to date, allowing the lead software developer to easily see the state at which testing was at.

Throughout the testing (particularly integration testing) XML files were used. I created in total 66 XML files. Due to the large amount of XML files generated it seemed appropriate to create a document outlining the use of each XML file, the 'description of XML files' document is included with this hand in.

With the assistance from the contracts manager and the lead software developer I created the 'Parser Requirements' spreadsheet, a comprehensive list of all of the XML Parsers requirements.

I created the 'Final Testing & Integration Plan' document alongside the project manager. This formed part of a deliverable but also aided in the planning of the project. As part of this document I created a GANTT chart showing the testing & integration schedule, this GANTT chart can be found in the aforementioned document.

I created the 'testing failures' document which outlines which tests failed for which units and whether the issues have been rectified, this aided massively in bug tracking.

I believe I had a large positive contribution to the company outside of my role as lead software tester. Other than the responsibilities outlined in my job role I played an active role in development.

The lead UX designer and I programmed many of the data structures required for the product to operate. I enhanced the image handler such that it could display images which are hosted online. I assisted the specialist software developer and the marketing manager in the progress tracking for LearnEasy, between us we implemented the marks tracking system which enables the system to calculate how many marks were awarded to a student for the completion of a lesson. I also assisted with the resolution of various bugs; I personally found many of them and therefore had a good idea of how to resolve them. I created all classes in the test package. These classes are automatic JUnit test cases used to fully test certain parts of the software. My full contribution to the development team can be found by analysis of the GitHub

repository.

I assisted the market research department by creating the 'Student Survey' which was sent out to the department.

I played a large role in both of the presentations. In the tender presentation I spoke about QA within the company and how we can assure a quality product through rigorous testing. In the sales presentation I spent a substantial amount of time creating the lesson file to be used in the demonstration (Demo.xml is included in the submission). The lead software developer and I then gave the product demonstration during the presentation. I have also created a video of this demonstration using screen capture software which will be included with this submission. I generally insured that the presentation ran smoothly by assisting with the financial section, ensuring all relevant information was present. I also created the poster which was displayed during the presentation.

In order for the company website to look professional, screenshots of a lesson were required. I created this lesson (screenshots.xml will be included in this submission). I spent a lot of time in the creation of this lesson in order to ensure that it was aesthetically pleasing.

I played a small role in the final financial report by way of editing the document to ensure it read smoothly and had no grammatical or spelling mistakes; my name can be seen on the document control.

I also created the original timesheet template; it has since been edited to include justifications.

4.0 **Contributions to Deliverables**
The following table outlines the deliverables which I contributed to

Deliverable	Contribution
QA Manual	Assisted in description of design process and testing job role
Tender Presentation	Helped overall planning of presentation and spoke about QA
Final Test and Integration Plan	Created final test & integration plan and GANTT chart
Final Presentation	Assisted with organisation of demo, created poster, ensured finance section was satisfactory
Software	Data structures, enhanced image handler, progress tracking and automatic JUnit test cases
Test Reports	Most test reports
Test Strategies	All test strategies
Test XML files	All test XML files
Description of XML files	Solely created
Testing and Integration Summary	Solely created
Testing Failures	Solely created
Demonstration XML files	Solely created demo.xml and screenshots.xml
Student Survey	Solely created survey and helped with distribution
Demonstration video	Created a screen capture of the demonstration shown in the presentation

5.0 **Critique and Reflection**
I think that I performed well as the lead software tester, with brilliant attendance. I could have improved on my communication with the rest of the group as this would have assisted in everybody knowing the stage at which testing was at. I would have liked to have been more involved in the development to exercise my Java skills. With hindsight I should have allocated the testing to other team members more evenly instead of tackling the bulk of it alone.