



Summary of **Individual** **Contribution**

Daniel Berhe

Document Control

Editor	Date	Update
Daniel Berhe	03/05/2015	Document created
Daniel Berhe	03/05/2015	Added a section concerning presentations
Daneil Berhe	04/05/2015	Added a few words for clarification

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Personal Report

1.0 Specialist Software Developer - Daniel Berhe

The Specialist Software Developer will play a role in overseeing software coding and will ensure consistent coding styles are followed. He/she will be responsible for coordinating the coding efforts on a specific part of the software while keeping regular contact with the Lead Software Developer, Lead Software Tester and Software Development team. He/she will have full understanding of the product specification, target consumer needs and company software development standards. Tasks of the specialist software developer will include:

- Ensuring consistent coding styles agreed with the lead software developer are followed.
- Help monitor and coordinate the implementation process alongside the Lead Software Developer.
- Help decide on design and development methods.
- Co-monitor the coding process.
- Ensuring software is developed within specified time frame.
- Ensuring that software is developed up to the standards of the company.
- Help in ensuring high level and module designs are as detailed as possible

The remainder of this report will summarise the contributions made by the Specialist Software Developer throughout the development of TeachEasy and LearnEasy.

1. Development of Answer Box and Answer Box Handler

The development of AnswerBox and AnswerBoxHandler was carried out by the Specialist Software Developer and the Marketing Manager. The development of these features is crucial to the functionality of TeachEasy and LearnEasy. The development involved writing 251 lines of code not including comments.

2. Development of Image Handler

The development of the image handler was carried out by the Specialist Software Developer and the Marketing Manager.

3. Development of LearnEasy Home Page

This Development was carried out by the Specialist software Developer. The development involved writing a class that prompts the user to choose default folder that can be used to store all future lessons. The class also keeps track of five of recently opened lessons by the user. The listed lessons (Available and Recently Opened) can be clicked to open the corresponding lessons. The user is given the choice of hiding the default folder prompt window. This choice is remembered even if the application (LearnEasy) is closed and opened again.

4. Progress Tracking and Marks of LearnEasy

The Specialist Software Developer was involved in the development of progress tracking of LearnEasy. The development included creating a class which stored the visited pages in a given lesson as well as marks for each of the completed pages. This class is capable of accumulating all the marks for the whole lesson which can then be used for pass/fail and to be displayed on the lesson completed certificate. This development involved modifying other classes such as MultipleChoice, MultipleChoiceHandler, AnswerBox and AnswerBoxHandler.

5. Code Testing

The Specialist Software Developer carried out tests on the AudioHandler, TeachEasy and LearnEasy login pages and the dialog box that appears in the case of XML files having errors and/or warnings. The results of these tests were forwarded to the Lead Software Tester.

6. Writing Software Implementation Report

The Specialist Software Developer carried out the task of writing the software implementation report after the first release of our products.

7. Potential Home Screen Features

A list of potential features for TeachEasy and LearnEasy home screen was compiled and forwarded to the Brand Manager. Please refer to the document named Potential_Home_Screen_Features_V1.0

8. Commenting and Refactoring Code

The Specialist Software Developer was involved in commenting and refactoring some of the code to make sure it adhered to the company's standards.

9. Presentation contribution

I did not present in either presentation. However, during the sales presentation, I wrote Technology in Education section of the presentation alongside our Marketing Manager Jake Ransom. I also helped during the practice of the presentations.

Self-critique and Evaluation

Being involved in the development of S O F I A's products, TeachEasy and LearnEasy, enabled me to improve in many areas. It allowed me to collaborate with other people to accomplish certain tasks. My java programming skills have improved tremendously. My ability to work as part of a team greatly improved as well as my time keeping skills. My limited knowledge of java meant that it took me longer to accomplish certain tasks. Given knowledge limitations and other commitments, I believe I contributed to the team to the best of my abilities. Since there is always room for improvement, I would have liked to know more about XML and HTML. Overall, I am very pleased for playing a part in the development of our products and for being part of S O F I A.