

Software Implementation and Testing Document

For

Group 10

Version 1.0

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1. Programming Languages (5 points)

We have chosen to use Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) for our web application interface. We have chosen these due to the fact that HTML is a standard to use for designing web pages and CSS is used for advanced styling. We have also chosen to compose our class functions with C# provided that all team members have been well introduced to the C++, C or Java. This is significant because the syntax of C# is recognizable enough for all team members to grasp very easily and in a short amount of time.

2. Platforms, APIs, Databases, and other technologies used (5 points)

We have decided to use Microsoft Azure Server for hosting our web application. Darren and Riley have previous experience using Azure in Computer and Network Administration. We also decided as a group to use Microsoft SQL for our user database and using the Visual Studio IDE for the implementation process. We have started using templates and other methods provided by ASP.NET Web Application Framework to begin the development process for our site. This includes using C# as our programming language of choice. We have researched using SendGrid for email confirmation and SMS text-alerts however we haven't researched integrating that into our site so it is subject to change. Researched the use of jquery, as the template that had been provided implements and supports many of its features. Live search queries will return data back instantly to the user as information is gathered and appended to.

3. Execution-based Functional Testing (10 points)

No Execution-based Functional Testing has occurred due to the lack of code produced by Increment 1.

The framework was run on Visual Studio as an ASP.NET Web Form project where we tested the functionality of the account creation/login and its storage in the database.

4. Execution-based Non-Functional Testing (10 points)

No Execution-based Non-Functional Testing has occurred due to the lack of code produced by Increment

5. Non-Execution-based Testing (10 points)

No Non-Execution-based Testing has occurred due to the lack of code produced by Increment 1.