**Programming Assignment 3 Sprint Report**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sprint 1**

Epic: As a student of CS 221 I need to create the basic program architecture.

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| **Backlog of User Stories** | **Done Date\*** |
| Create the project in Visual Studio, add a source file and add a main function to the source file. |  |
| Add .h and .cpp files for the Library class to the project. |  |
| Add a .h file in which to define the Book structure |  |
| Write the class definition in Library.h. |  |
| Write stub function definitions in Library.cpp for each function in the class. (Functions returning a value should return zero, NULL, etc. as appropriate.) |  |
| Add a cout line to each function in Library just to report that the function was reached. Do this for the constructor and destructor also. |  |
| Add code to main to create an instance of Library and make calls to all functions. Verify that all were reached. (Note: You will have to devise a way to call the private functions.) |  |

**Sprint 2**

Epic: As a student of CS 221 I need to plan how to test each function.

Epic: As a student of CS 221 I need to implement and verify each function.

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| **Backlog of User Stories** | **Done Date\*** |
| For each function in Library determine exactly how you will test the function automatically from main. |  |
| Add code to main to perform each of the automatic tests. |  |
| **Add code, test and verify functions on which other functions in Library will depend.** |  |
| addBook() |  |
| printLibrary() |  |
| **Add code, test and verify all public functions in Library** |  |
| buildLibrary() |  |
| removeBook() |  |
| getBookByNumber() |  |
| getBookByTitle(char \*title) |  |
|  |  |
| **Add code, test and verify all private functions in Library** |  |
| getBookByTitle(char \*title, Book \*rt) |  |
| printOne() |  |
| printAll() |  |
| destroyTree() |  |
| Verify against the SOW that all functionality of the project has been fully implemented. |  |

**\*Done means you have implemented the code AND fully tested it.**

**Double off if you say you have tested it and it fails when tested by the instructor.**