**Programming Assignment 2 Sprint Report**

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**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. | 7/9/2019 |
| Add .h and .cpp files for the Book\_Inventory class. | 7/2/2019 |
| Copy the BookRecord.h and BookRecord.cpp files from program 1 into this project folder and add them to the project. | 7/2/2019 |
| Write the class definition in Book\_Inventory.h. | 7/2/2019 |
| Modify the getClassification and getCost functions in BookRecord to return the appropriate values. | 7/2/2019 |
| Modify BookRecord to add a private **m\_pNext** pointer and add the setNext and getNext functions. | 7/2/2019 |
| Write stub function definitions in Book\_Inventory.cpp for each function in the class. (Functions returning a value should return zero, NULL, etc. as appropriate.) | 7/2/2019 |
| Add a cout line to each function in Book\_Inventory just to report that the function was reached. Do this for the constructor and destructor also. | 7/9/2019 |
| Add code to main to create an instance of Book\_Inventory and make calls to all functions. Verify that all were reached. | 7/9/2019 |

**Sprint 2**

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

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

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| **Backlog of User Stories** | **Done Date\*** |
| For each function in Book\_Inventory determine exactly how you will test the function automatically from main. Add code to perform each of the automatic tests. | 7/9/2019 |
| **Add code, test and verify all modified functions in Book\_Record.** |  |
| getCost, getClassification, getNext, setNext | 7/9/2019 |
| **Add code, test and verify all functions in Book\_Inventory.** |  |
| readInventory() | 7/2/2019 |
| addBook() | 7/2/2019 |
| removeBook() | 7/14/2019 |
| searchByStockNumber() | 7/2/2019 |
| searchByClassification() | 7/9/2019 |
| searchByCost() | 7/9/2019 |
| getNumInStock() | 7/9/2019 |
| printInventory() | 7/2/2019 |
| ClearInventory() | 7/14/2019 |
| Verify against the SOW that all functionality of the project has been fully implemented. | 7/14/2019 |

**\*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.**