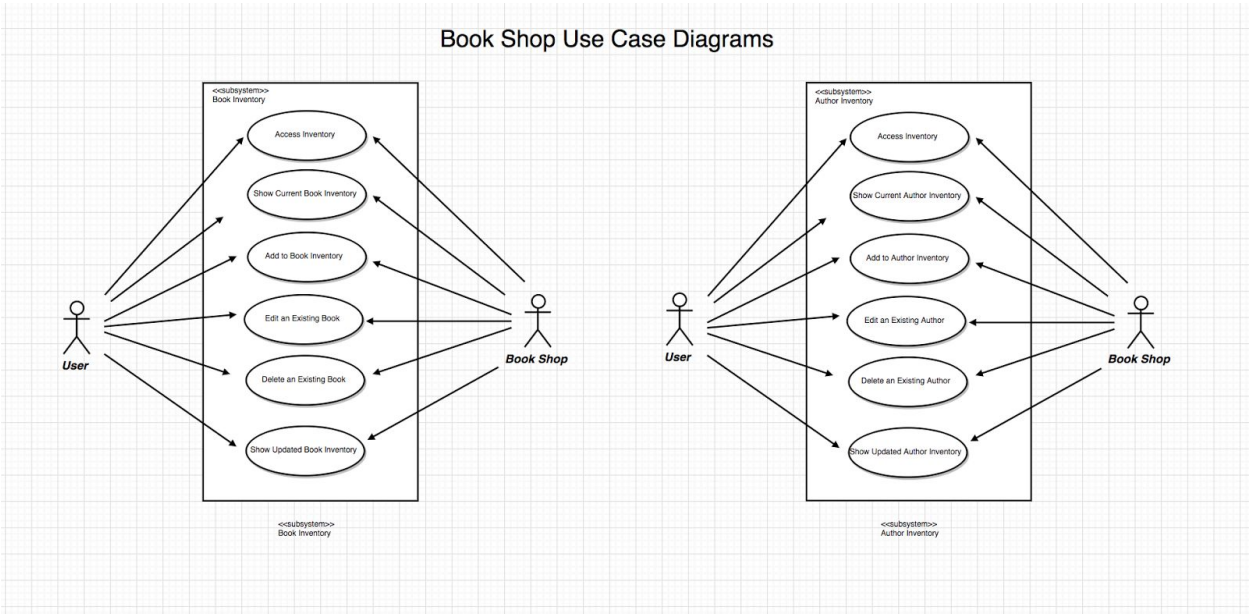
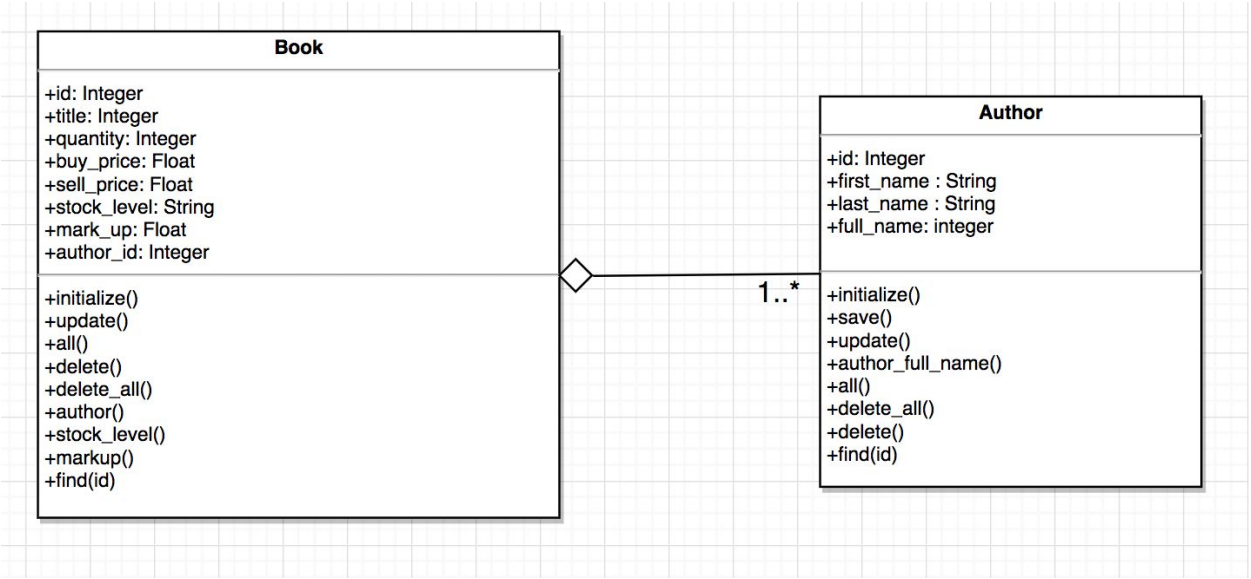
Mike Casey - Analysis and Design Unit (SQA PDA:Software Development)

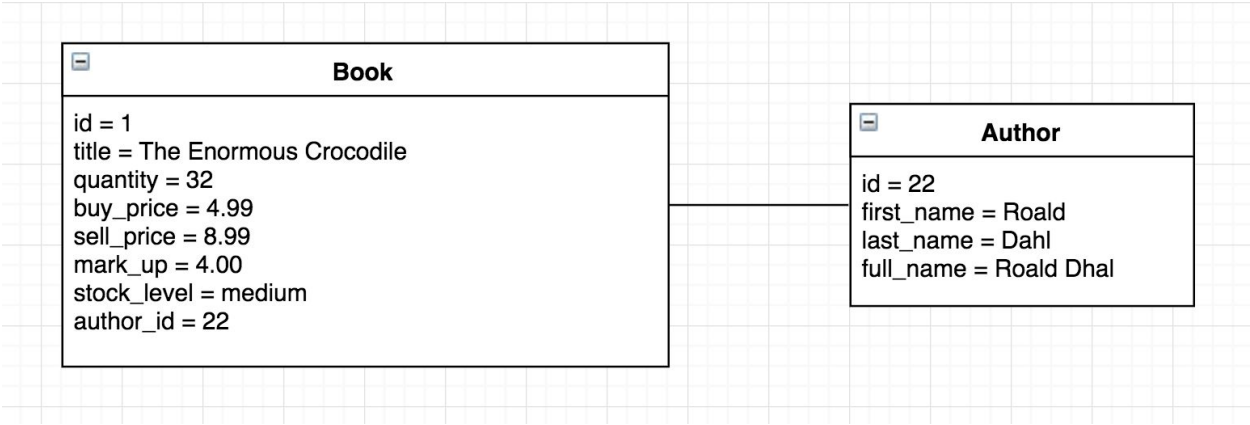
A.D.1 Use Case Diagram



A.D.2 Class Diagram

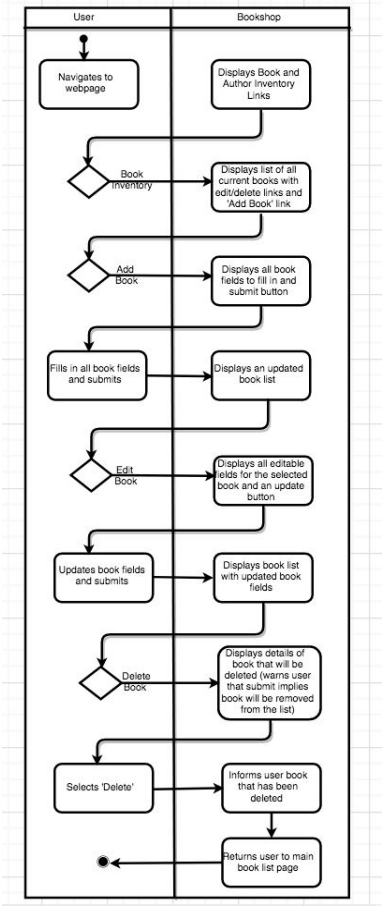


A.D.3 Object Diagram

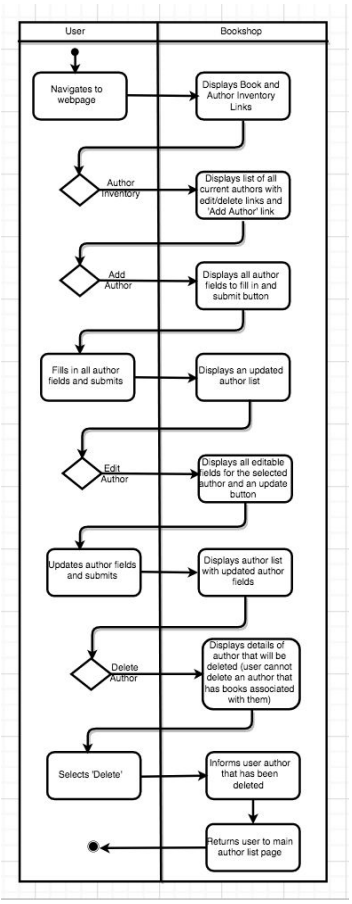


A.D.4 Activity Diagrams

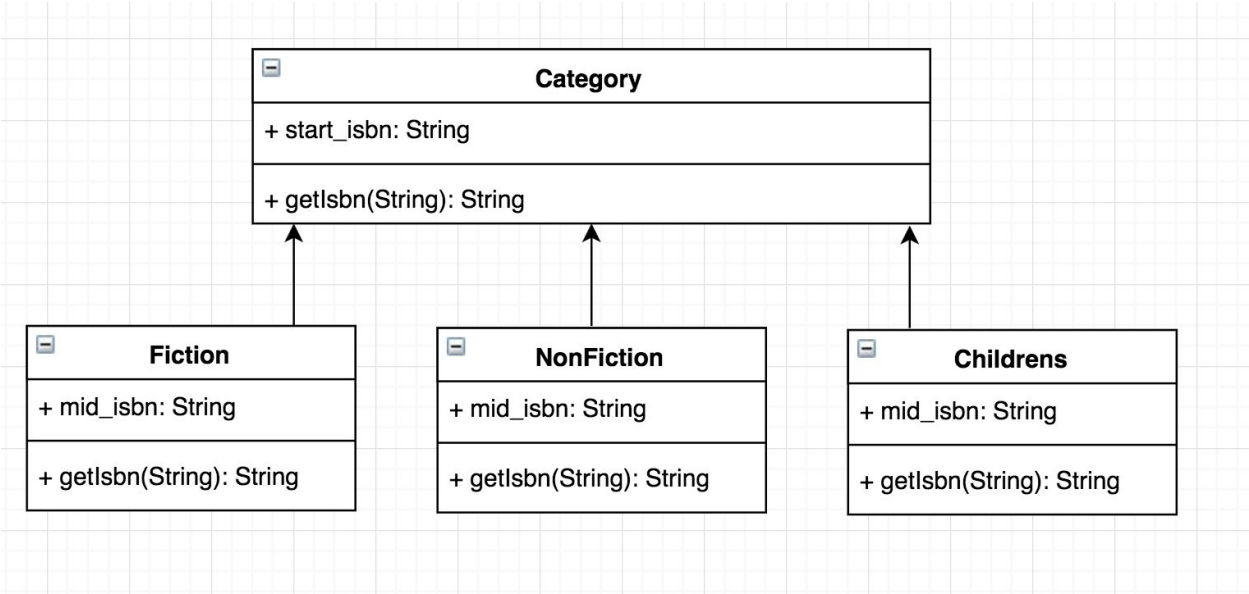
Book Inventory



Author Inventory



A.D.5 Inheritance Diagram



A.D.6 Implementations Constraints Plan

Topic	**Possible Effect of Constraint on Product**	**Solution**
Hardware and software platforms	Product only tested on Mac and on Chrome/Safari browsers. Not tested on other hardware platforms or on other browsers.	Test product functionality on other hardware platforms and on other browsers. Develop/modify code if there are issues testing on other platforms and browsers.
Performance Requirements	Not applicable for a small scale product such as bookshop.	Not Applicable.
Persistent Storage Transactions	If bookshop product involves reading a very large database will there be storage transaction issues?	Generate a large database of authors and books and test performance.
Usability	Functionality not in place for visually impaired users. Functionality not developed for mobile platforms.	Develop functionality to take into account usage by visually impaired users. Develop and test code to ensure product works on mobile platforms.
Budgets	Not applicable for bookshop product.	Not Applicable.
Time Limitations	Difficulty developing underlying product code. Possible external family commitments or health issues of developer causing delay in product development.	Not applicable for this case. Product MVP achieved within required timescale.