# **CSC154 Software Development**

# **Project Overview Template**

Project Name: Book-Tora

Team Number: 15

Project Manager: Devon D’Ambrosio

Mentor: Michael Welte

Team Members: India Rowe, Peyton Ware, Riya Vadadoria, Stefan Slaczka, Sean Stephens

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**1. Project Objective**

Create an efficient and user-friend inventory management system for a local bookstore.

**2. Project Description**

By pulling some inspiration from the Barnes and Noble inventory system, our team will create software named Book-Tora that will come equipped with uniquely organized databases to store and track all of the current products a store holds along with customer/publisher information and sales records.

Book-Tora will also come with a simple user-friendly interface that will allow employees to search, log and update important information about the books a store holds in their inventory, their customers/publisher's information, and sales history.

**3. Project Scope**

Due to the local bookstore being a small business at one location, there is no need for an online database at this time. The database will be stored on a local server and information can be retrieved and recorded without the need of an internet connection.

**4. Use Case and User Stories (Create at least 3 User Stories or Use Cases)**

* As a bookstore employee, I want to be able to log into the inventory management system using the UI Book-Tora, so that I can keep input and retrieve inventory.
* As a bookstore employee, I want to be able to use a search field in order to look up book data or customer data using a menu item on Book-Tora’s UI, so that I can search the company database for either books or customers.
* As a bookstore employee (someone with management credentials), I want to be able to search for publishers using specific data using a menu item on Book-Tora’s UI, so that I can find publisher companies or individuals matching those criteria.
* As a bookstore employee, I want to be able to link purchases to specific customers when the purchases are being made, so that I can keep track of who purchases what for both sales history and marketing purposes.
* As a bookstore employee (someone with management credentials), I want to be able to log information about a book into the Book-Tora’s inventory database using a menu item on the home screen, so that the entered book can be retrieved from the inventory management system.
* As a bookstore employee (someone with management credentials), I want to be able to log information about a customer into Book-Tora’s database using a menu item on the home screen, so that I can keep track of their contact information and purchase history.
* As a bookstore employee (someone with management credentials), I want to be able to log information about publishers into Book-Tora’s database using a menu item on the home screen, so that I can keep track of which publishing company I use to purchase which books.

**5. Team Collaboration and Documentation Tools**

* Team Collaborations
* Communicate openly – using Microsoft Teams to communicate so we all know we are in the same path/ have the same idea of the project. Examples of Communicate openly meetings, taking in chat, and asking any questions if needed.
* Select the right tools – The most important thing is to select the right tools so the project can go as smoothly as posable.
* Write comprehensive documentation – writing documentation so we can look back at the code and see why and how the code works.
* Provide fast feedback – So we can see each other’s code and have the ability for fixing bugs/ having questions on the code as fast as possible. Examples can include pair programing, code reviews before submission.
* Lead effectively – create a straightforward path so things can move smoothly. This is important because of roadblocks not everything goes smoothly so it is important to have a second path.
* Documentation tools
  + GitHub – For backing up files and collaboration
  + Visual studio – coding ID
  + C++ – transferring data/ foundation of software
  + Microsoft Teams – for communicating
  + Microsoft Azure – for cloud and run the server
  + Documentation tool – Microsoft word

**6. Project Management Plan and Methodologies**

* Agile
* Project management philosophy that achieves goals in smaller increments and time frames.
* Allows to adopt to changing features and potential issues
* Reduces time applied on projects and increases efficiency
* Scrum
* Implements Agile project management philosophy
* Consistent meetings every week instead of everyday to create a weekly sprint of our duties.
* These meetings allow our team to be fully transparent of our progress and allows us to adapt to changes that may arise.
* Each member has a say in what they are able to do and feel open to share their opinion if a different direction is needed.
* Suitable for the constant change in our project and lack of budget constraint