# **CSC289 Programming Capstone Project**

**Project Name:** Bombastic Bookstore

**Team Number:** 2

**Team Project Manager:** Taylor Sanderson

**Team Members:** Stefan Slaczka, Matthew Wilamowski, Daniel Stanton, Tanner Plishka

**Mentor:** Eddie Laczynski

**Release Report**

**Bombastic-Bookstore- Version 4-24-001**

**Overview**

Bombastic Bookstore is a web based bookstore project. It is designed to allow for all-online browsing, searching, and ordering from a catalog of books. Users are able to register and log in to the site. For it’s administrators, it has a backend with fancy graphs and visualizations

**Development Highlights**

* **Project Initiation**

During project initiation, Our group came together to define objectives, establish scope, understand dependencies, and chart the plan ahead. It was a collaborative process that laid the foundation for great execution and effective way of working.

* **Requirements Gathering:**

Project had a well-structured list of requirements. Our group refined this list of requirements and made sure what was going to be delivered could fit in the timeline given. A few features were removed and will be provided in a later release.

* **Design and Architecture:**

The design decision was based around making a website that would be user friendly for all ages. The project was meant to reflect a majority of websites and common patterns you typically see with websites. Architecture decisions were to use free APIs to pull information about the books. Storing that information in a database we maintain. We also used Pycharms “Flask” to host the front end development.

* **Development Progress:**

[Highlight key development milestones, challenges, and achievements.]

Milestones include functioning login, successful call of numerous APIs, Multi search queries, admin access views, and Matplotlib visual reports. There was a critical challenge around secure login. This was critical to our project and set us back in delivery. Our team coming together to remove all impediments and blockers was our largest achievement and led us to a functioning project.

* **Testing and Quality Assurance:**

Black box testing on many aspects of the application was done late in the project to verify that everything functioned as intended.

* **Bug Fixes and Enhancements:**

Bugs that were identified include:

* + ISBN not pulling correctly from data base
  + Searching by genre providing no results
  + Searching by author returned only title
  + Pagination not working for inventory chart
  + No alt picture for books with no cover from API

All bugs identified were fixed a sprint after identified.

**Deployment**

Website is easily deployable using a simple .bat script in the root folder.

**Release Notes**

* **New Features:**
  + Online Bookstore - Allows users to browse, search, and select the books they want to purchase.
  + Search functionality - Allows for searching the catalog by author, title, or genre.
  + Working Cart and payment with input verification.
  + Maintain user cart throughout the site and across multiple sessions on the site.
  + Payment page checks for valid credit card numbers.
  + User login, registration, and profiles.
  + Users are able to sign up to the site using the registration page and have a profile with an avatar pulled from Gravatar. Their login info is kept in a database across sessions on the site.
  + Admin pages
  + Inventory monitoring allows the bookstore owner to maintain stock levels of each book in the catalog.
  + Sales visualizations allow the bookstore admin to see what is selling and what is not, and see sales trends over time.
* **Known Issues:**

Known limitations include limited visuals, filtering and sorting on catalog page, purchases not updating inventory, and admin ability to update inventory.

**Conclusion**

In conclusion, our first release met most expectations of what was within our project plan. Time constraints may have made us limit the amount of features we could deliver in this release but the group ensured it did not lead to unusable software. Moving forward with future release, we look to include more visualizations, create a purchase log with shipping management, payment processor integration, and book rentals.