Bookstore Inventory System

Design Document

Table of Contents

[1. Overview 2](#_Toc140001610)

[2. Controller Class 2](#_Toc140001611)

[2.1. addBookRecord() 2](#_Toc140001612)

# Overview

This document will collect detailed method definition tables for each of the methods contained in each class in the Book Inventory System (BIS). These classes and methods were defined in the Analysis Document.

# Controller Class

## addBookRecord()

|  |  |
| --- | --- |
| Method Name | addBookRecord() |
| Return Type | Void |
| Input Arguments | Isbn, authors, title, edition, format, coverPrice, storePrice, stock |
| Output Arguments | None |
| Error Messages | ISBN conflicts with an existing record   * ERROR: Record already exists.   Invalid ISBN   * ERROR: Invalid ISBN format. ISBN should be numerical and exactly 10 or 13 digits in length.   Invalid Data for Cover Price   * ERROR: Invalid Cover Price format. Cover Price must be a positive value with two decimal places.   Invalid Data for Store Price   * ERROR: Invalid Store Price format. Store Price must be a positive value with two decimal places.   Invalid Data for Stock Quantity   * ERROR: Invalid Stock Quantity format. Stock Quantity must be >= 0. |
| Files Accessed | None |
| Files Changed | None |
| Methods Invoked | searchRecord() |
| Narrative | Method adds a book record with a specified ISBN and associated information. It throws an error if the ISBN is invalid or already in use, or if the cover price, store price, or stock quantity are invalid format. |

## addCustomerRecord()

|  |  |
| --- | --- |
| Method Name | addCustomerRecord() |
| Return Type | Void |
| Input Arguments | firstName, lastName, bizName, address, telephone, email |
| Output Arguments | None |
| Error Messages | None |
| Files Accessed | None |
| Files Changed | None |
| Methods Invoked | None |
| Narrative | Method adds a customer record with an automatically generated customer number and associated data. |

## addEmployeeRecord()

## addOrderRecord()

## searchRecord()

## adjustBookRecord()

## adjustCustomerRecord()

## adjustEmployeeRecord()

## adjustOrderRecord()

## removeBookRecord()

## removeCustomerRecord()

## removeEmployeeRecord()

## removeOrderRecord

## listAllBooks()

## listAllCustomers()

## listAllEmployees()

## listAllOrders()