Book Shop Management System Read Me

Introduction

The **Book Shop Management System** is a simple, console-based application designed to manage a bookstore's inventory. It provides essential functionalities for adding, removing, updating book details, searching for books, and calculating total sales. This project is ideal for small to medium-sized bookstores that need a lightweight inventory management tool.

Project Type

Backend

Deployed App

 This project is a console-based application and does not have a deployed frontend or backend. It runs locally on your machine.

Directory Structure

bash

Copy code

csweek/

|-- BookShop.mjs # Main class for managing the bookshop

|-- helpers.mjs # Helper functions for the project

|-- test.mjs # Test file to demonstrate the functionality

|-- package.json # Project metadata and configuration

<u>Video Walkthrough of the Project</u>

(No video walkthrough available as this is a console-based application)

<u>Video Walkthrough of the Codebase</u>

(No video walkthrough available as this is a console-based application)

Features

- Add Books: Add new books to the inventory with title, author, price, and quantity.
- Remove Books: Remove books from the inventory by title.
- **Update Book Price**: Update the price of an existing book.
- **Search Books**: Search for books by title or author.
- **List All Books**: Display all books currently in the inventory.
- Calculate Total Sales: Calculate the total sales value based on the current inventory.

Design Decisions or Assumptions

- **Book Title Uniqueness**: The system assumes that book titles are unique to simplify operations like adding and removing books.
- In-Memory Storage: The current implementation stores all data in memory, meaning the data will be lost once the application is closed.
- **Simple Search**: The search functionality is based on a simple string match for book titles and authors.

Installation & Getting Started

To run the Book Shop Management System on your local machine, follow these steps:

1. Clone the repository to your local machine.

bash

Copy code :- git clone <repository-url>

cd csweek

- 2. Ensure you have Node.js installed.
- 3. Run the test file to see the Book Shop Management System in action:

bash

Copy code: - node test.mjs

<u>Usage</u>

- The application begins by displaying a welcome message.
- Various methods from the BookShop class are tested in test.mjs to demonstrate the system's capabilities.

Credentials

No authentication is required for this project as it is a simple console-based application.

> APIs Used

This project does not use any external APIs.

> API Endpoints

As this is a console-based application, there are no API endpoints available.

<u>Technology Stack</u>

•	Node.js : A JavaScript runtime environment used for executing the
	application.

•	JavaScript (ES Modules): The application is structured using ECMAScript
	Modules for modularity and reuse.