Overall Logic:

* Take user input and manage inventory

1. Input Function
   1. Takes a string/ints/doubles and puts that data into a structure, the structure then is written to a file in binary so no data is corrupted converting it all to char. Also creates sales data using data provided, used later for statistics and tally.
2. Modify Function
   1. Opens file where records were inputted, reads them into a vector of structs, uses genre identifiers to determine what genre those records are ( allowing for a shorter list than displaying all records), then keeping tracks of where those records are by placing their record number into a vector who’s values correspond to their order on the list( so a book genre record, which is record #50 in the entire file, will become list item #1 on the list, if it’s the first book genre encountered and the user wants to see all book records). After selecting correct record, changes data of that record. The vector of structs overwrites the old data on file is erased, and new data, along with the modified record, replaces it. A close up of text on a white background

      Description automatically generated
3. Delete Record
   1. Opens files where records are, user chooses genre of record to modify, they choose record off the list, the program then deletes the record and its associated sales data. It does so by loading records into a vector and rewriting all records except the record marked for deletion. Thus removing its data from the file.
4. Current Inventory
   1. Opens files of where records are and scrolls through the entire list. Classifies them by genre and then tally’s how many products total of t hat genre there are and breaks it down individually for each product; also tells when inventory is running low.
5. Tally
   1. Opens sales file, which holds the data about revenue, costs, number of items sold, etc. Can find number of sales, revenue made and hottest selling item in a certain time interval. Time intervals are today, this month, this year, all time and custom time intervals. Shows hottest selling item and how much revenue it brought in by first determining if that item sold more than all items in that time period, then seeing how much of that item was sold in that time period, and calculating revenue from that.