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**SimpleBookstore – Project Summary**

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# Functional description

SimpleBookstore is a C# .NET 8 console application implementing CRUD (Create, Read, Update, Delete) operations on an in-memory list List<BookItem>. The set of CRUD use cases is illustrated in the next sections.   
  
The BookItem entity has 5 data members:

* Title
* Authors
* Publisher
* Year
* Id

# Main menu

After starting the application, the main menu is shown

A computer screen shot of a black and white screen

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# Option (6): the autogenerate function

If needed, autogenerate function can be used. This function will populate the backend with 3 objects of type BookItem.   
  
A screen shot of a computer program

Description automatically generated

# Option (5): view book list

This function will show all items present in the in-memory backend. When inserting into the backend, unique Id properties are generated automatically. This is visible in the list.

A screenshot of a computer

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# Option (3): edit a book from in-memory backend

In this case we select book Id = 2 and modify book publication year from 2022 to 2023.

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# Option (2) view the details of a selected book

We select option 2 and use book Id = 2 to check book details.

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# Option (1) : add new book

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Now we use option (5) to see all books. Indeed the new book is in the list.

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# Option (4) : remove book

We select option (4) and remove book with Id = 2.   
Next, we choose option (5) to view the resulting list.

In this case, book with Id = 2 is indeed removed.

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# Conclusion

The above tests of the use cases show that the application implements CRUD operations on a list of book items.