

Test task

Develop a C# library (not Web service) that allows to create, view and edit a list of books. Each book has a title, an author, and number of pages. The library should provide following functionality:

1. Load a list of books from an XML-file;
2. Add a new book to the list;
3. Sort the list in alphabetical order by author first. Then for each author sort it in alphabetical order by title. Example: first all Andersen's books, then all King's books. Andersen's books: first The Little Mermaid, then The Ugly Duckling etc.;
4. Book search by a part of its title (basic, not fuzzy);
5. Save the list of books into an XML-file.

The library should be implemented in C#, .NET.

No UI is required, the library will be used by other software modules.

The library should be covered with unit tests (any framework of your choice).

!! PLEASE, DO NOT USE ChatGPT !!

AI generates inconsistent, suboptimal (or even incorrect) code that doesn't represent your actual skills.

We will ask you non-standard question regarding your code during the interview. If you generate it, you'll have no answers. Please, value your (and our) time.