**A task for implementation remotely by a Sitecore applicant**

**Task description:**Implement a simplified version of a Library application.

**The application should provide the following functionality:**

* managing books available in the library: adding, removing, changing quantity. Each book can have a few authors, and an author can write a few books;
* a book can be taken by different people and at a different time;
* registration is required to take books. The user should be able to register himself. Password is not necessary, but email is (i.e., strong security protection is not required for this task);
* Implement filters that show all books / available books / books taken by the user;

**Delivery: GitHub repository, containing:**

* source code ready to be compiled and run
* backup or detached files of the database
* Installation guide and small User Guide in English

**Estimated implementation time:** ~4-6 hours

**Important note:**essential requirements for the task are algorithm and idea you try to implement, using the most efficient way and code. UI Design is not so important, though accuracy is.

**Implementation requirements:**

1. [ASP.NET](https://eur02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fasp.net%2F&data=02%7C01%7Cpaul.crowley%40sitecore.com%7Ce53314dfa53b4198f46908d7b64d94f9%7C91700184c3144dc9bb7ea411df456a1e%7C0%7C0%7C637178316656922817&sdata=v6Blk6Nq6ROdWnsh%2FF04qOfLY46qzOcZu9ZrE4%2Bi%2BWo%3D&reserved=0) Application
2. Library UI is a web application, which has a front-end page with a grid. The grid should allow paging, sorting by book titles and author names. No complex design is required.
3. Minimize the number of post-backs.
4. You must not use an existing ORM like Entity Framework, NHibernate, etc., for working with the database.

**Note:** ***You should not try to use all the technologies / practices / patterns you outlined in your CV. Please do not make this task more complex than it’s necessary. We’d like to see a piece of code as you would do during your daily work.***