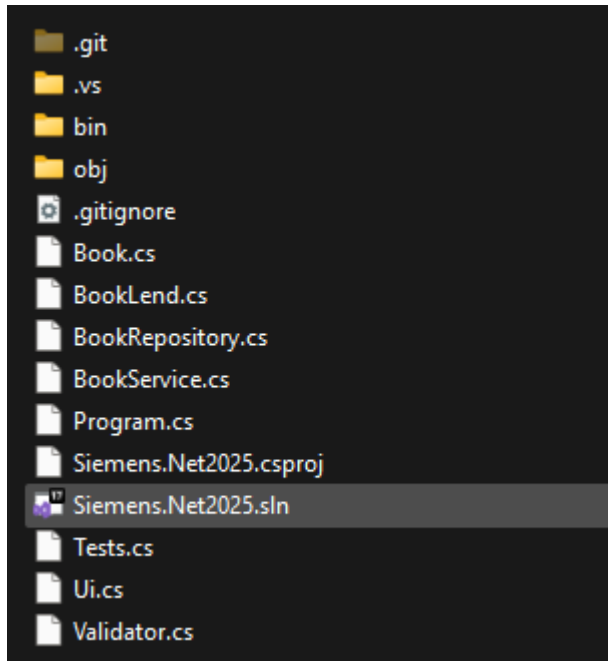


Internship .Net Siemens 2025

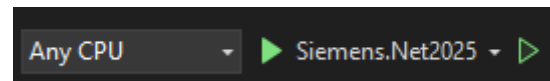
After cloning or downloading the project, you should be directly good to go, because all of the files are already included or will be automatically generated by the project itself.

The project was built using Visual Studio 2022 IDE, and opening directly the solution through this IDE is the easiest method to run the application.



This is how the format of the project should look after clone (download).

From now, you have to simply select the ***Open a project or solution*** option from the Visual Studio menu. After the project is fully loaded in the IDE, clicking the ***Siemens.Net2025*** button (or by pressing ***CTRL + F5*** shortcut) the application will start.



I don't guarantee that the project will run 100% correctly using other IDE's.

After successfully starting the application, a console instance will be prompted.

```
~Library management system~
0.Display all
1.Add
2.Delete
3.Update
4.Lend
5.Return
6.Search
7.Display all lends
8.Critical stocks
9.Exit
>>|
```

From now on, you can freely enjoy the application and all of its functionalities. You are free to make mistakes, because the project is built to handle any input from a user and don't crash.

Functionalities:

- 0** – Displays all books (including their details) currently registered in the application.
- 1** – Add a book by entering its fields: Title, Author and quantity. If a book with the same Title and Author already exists, then only its quantity will be increased.
- 2** – Delete a book by entering its Id. If you don't know the Id of the book, you can simply display all books (option 0), which will also print the id's of the books.
- 3** – Update a book by entering its Id and the new fields with which will be updated.
- 4** – Lend a book, by entering its Id and the number of books that will be lend.
- 5** – Return a lend of a book, by entering the lend Id. If you don't know the book Id, you can simply display all lends (option 7), which will also print the lends id's.
- 6** – Search a book by all of its fields. Searching by Id or quantity will search for an exact match of this fields, but searching by Title or Author will look for the books that contains the provided inputs.
- 7** – Display all lends (including their details) currently registered in the application.
- 8** – Display all books that have a critical stock quantity. This is the custom functionality, and it aims to help the administrator to identify easily which books are having a very low stock of available pieces remaining. The critical stock threshold can be updated manually from this menu, and as all of other things from the application, it will be persistent over application restart.
- 9** – Exit the application.

Key-level improvements:

- Adding a more friendly user interface
- Connecting the application within a real database