**Project Title: Online Bookstore**

**Project Description:**

You are tasked with creating an online bookstore web application using ASP.NET Core and Angular. The application should allow users to browse a list of books, view book details, add books to their shopping cart, and complete the purchase.

**Requirements:**

**1: Setting Up the Project**

* Create a new ASP.NET Core web application.
* Set up a database (you can use SQLite or any other database system).
* Create a data model for books, including fields like Title, Author, Price, ISBN, and Description and image.
* Implement use the entity framework
* Build a basic Angular structure for the site.
* Book data should be directly added to the book related tables via insert EF

**2: Building the Frontend**

* Create a homepage that displays a list of available books from the database.
* Sorting and filtering the book list. It should be server side
* Implement a book detail page that shows the book's information .
* Add a shopping cart functionality, allowing users to add books to their cart.

**3: User Authentication and Shopping Cart**

* Implement user authentication using ASP.NET Core.
* Allow users to register, log in, and log out.
* Enhance the shopping cart functionality:
* Users should be able to view and modify the items in their cart.
* Implement the ability to place an order.
* Store order information in the database.

**4: Final Touches and Testing**

* Add validation and error handling throughout the application.
* Implement design to ensure the site works well.
* Ensure security best practices are followed, such as input validation and protection against common web vulnerabilities.

**5: Implement Pagination, searching**

* Implement pagination for the book list.
* Add search functionality to allow users to search for books by title or author using server side
* The cart without refreshing the page.

**6: 2FA enable via authenticator app**

You need to do research how we can implement this functionality and we need to add in this demo

Here is the sample what we need to integrate:

<https://drive.google.com/file/d/128jXKKr7ZXm6in7qayEyKpFQGxn419M7/view?usp=sharing>

**7.You need to give an option to upload/change profile picture**

**8: Create documentation**

* Project Overview:

Briefly describe the project's purpose, technologies used, and objectives.

* Installation and Setup:

Provide instructions for setting up the development environment and dependencies.

* Database Structure:

Describe the database schema, including tables, columns, and relationships.

Document the purpose of each table and its fields.

Provide any database initialization scripts if needed.

* User Authentication:

Document user registration, login with UI.

* Shopping Cart Functionality:

Describe how the shopping cart works, including checkout and order storage with UI.

* Security Practices:

Highlight security measures, including input validation and common web vulnerability protection.

* Two-Factor Authentication (2FA):

Provide a guide on enabling and using 2FA with an authenticator app with UI.

**Note:**

1. **You need to create separate web applications for front-end and back-end**
2. **Front End App Tech Stack: Angular**
3. **Back End App Tech Stack: .Net Core Web API**
4. **Do not use entity framework.**
5. **For Database operation, you need to use Entity Framework**