Rapport for Sprint 1

Executive Summary:

The purpose of this report is to provide an overview of the development of an online book store. This platform aims to provide users with an intuitive and seamless shopping experience by offering a vast array of books across different genres. The online book store will be developed in two stages: database and front-end, back-end.

In the first stage, the database will be developed to store all the necessary information about books and the available inventory. This database will be the foundation for the platform and will be instrumental in ensuring data integrity, consistency, and security.

The second stage will involve the development of the front-end and back-end of the platform. The front-end will be designed to provide users with an easy-to-use interface to search, browse, and purchase books. The back-end, on the other hand, will handle the business logic of the platform and will ensure that all transactions are processed efficiently and securely.

In conclusion, the development of the online book store is expected to revolutionize the way books are sold and purchased online. With the increasing popularity of e-commerce, the platform has the potential to become a major player in the online book market and will provide users with an unparalleled shopping experience.

User Stories:

1. As a customer, I want to be able to search for books by title, author, or genre, so that I can find what I am looking for quickly and easily.
2. As a customer, I want to be able to view detailed information about a book, including description, so that I can make an informed decision about whether to purchase it.
3. As a customer, I want to be able to add books to my cart.
4. As a customer, I want to be able to view my order history and track the delivery of my purchases, so that I can keep track of my purchases and know when to expect them.
5. As an administrator, I want to be able to manage the books in the store, including adding new books, updating existing books, and removing books that are out of stock, so that I can keep the store's inventory up-to-date.
6. As an administrator, I want to be able to view and analyze sales data, so that I can make informed decisions about which books to stock and how to price them.

7. As an administrator, I want to be able to manage customer orders, including shipping orders, so that I can provide a smooth and efficient ordering process for customers.

Use Cases:

1. Search for a Book: The customer uses the search bar to search for a book by title, author, or genre. The system returns a list of relevant books and displays them to the customer.
2. View Book Details: The customer clicks on a book from the search results to view its detailed information and description.
3. Add Book to Cart: The customer adds a book to their cart by clicking the "Add to Cart" button on the book's detail page.
4. Checkout: The customer proceeds to checkout, where they enter their billing and shipping information and complete the order.
5. View Order History: The customer views their order history by clicking the "My orders" link in their account.
6. Manage Books: The administrator logs in to the back-end of the store and adds, updates, or removes books as needed.
7. View Sales Data: The administrator logs in to the back-end of the store and views sales data, including which books are selling the most and which are not.
8. Manage Orders: The administrator logs in to the back-end of the store and cancels order.

Requirements:

1. User-friendly interface: The system must have a user-friendly interface that is easy to navigate and understand.
2. Fast and reliable search: The system must have a fast and reliable search function that returns relevant results quickly.
3. Order tracking: The system must have an order tracking system that allows customers to view their order history and track the delivery of their purchases.
4. Back-end management: The system must have a back-end management system that allows administrators to manage the books in the store and view sales data.

Assumptions:

1. Customers have access to the internet and can use a web browser to access the online book store.
2. The online book store's database is regularly backed up to prevent data loss in the event of a technical failure.
3. The online book store is in compliance with all relevant privacy and data protection regulations.

System Architecture Description and Implementation Overview:

The system architecture of the online book store is a complex network of interrelated components that work together to facilitate the storage, retrieval, and management of data. The architecture consists of two main components: the front end and the back end.

The front end is responsible for presenting the user interface and providing a way for users to interact with the data stored in the back end. It typically involves the use of web technologies such as HTML, CSS, and JavaScript to design and implement the user interface. The user interface is designed to provide an intuitive and user-friendly experience for customers, allowing them to browse and search for books, view detailed information about books, and place orders for books.

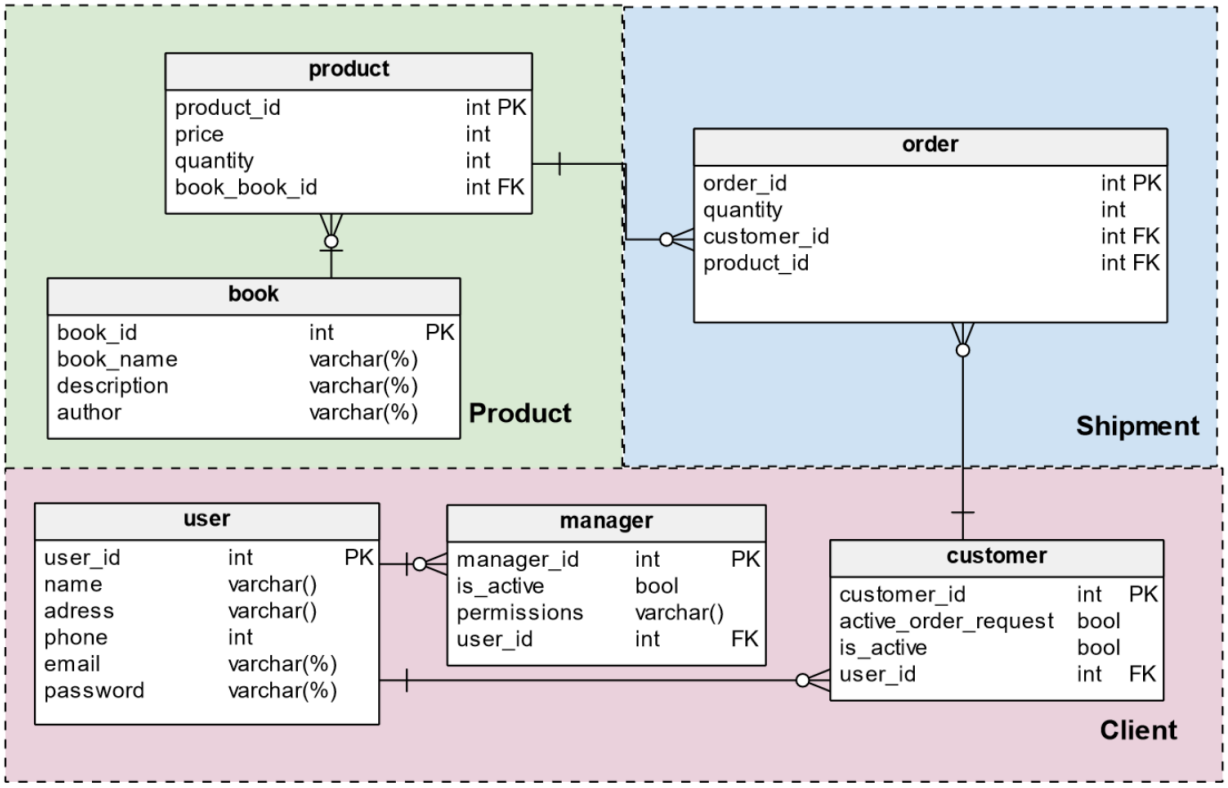
The back end is responsible for storing and managing the data associated with the online book store. It typically involves the use of a database management system (DBMS) to store and manage the data, as well as server-side programming languages such as Python to implement the business logic and processing of data. The back end provides a secure and reliable means of storing and managing the data associated with the online book store, and it enables the front end to retrieve and manipulate data in a manner that meets the requirements of the business.

The implementation is still in progress. In conclusion, the system architecture of the online book store represents a complex and sophisticated system that requires careful planning, design, and implementation to ensure that it meets the requirements of the business and provides an optimal user experience for customers.

Current backlog:

Group	URL	Status	Priority	Developer
	/login	in progress	critical	Ahmad
	/register	in progress	critical	Ahmad
	/password/update	pending	low	
	/password/reset	pending	low	
/auth	/validate-email	pending	ignore	
	/home/	in progress	critical	Ahmad
	/customer/update	pending	critical	-
	/customer/get/	pending	critical	-
	/customers/details	pending	critical	-
	/customer/details	pending	critical	-
	/customer/delete	pending	critical	-
	/customer/add	pending	critical	
/customer	/quick-account-create ???	pending	~~ignore~~	
	/product/get/	in progress	critical	Olle
	/product/details	in progress	critical	Olle
	/product/delete	pending	critical	
	/product/add	pending	critical	
/admin	/payment/status	in progress	normal	Olle
	/book/update	pending	critical	
	/books/get/	pending	critical	
	/books/details	pending	critical	
	/book/details	pending	critical	-
	/book/delete	pending	critical	-
/books	/book/add	pending	critical	-
	/order/update	pending	critical	
	/orders/get/	pending	critical	
	/orders/details	pending	critical	
	/order/details	pending	critical	-
/order	/order/delete	pending	critical	-
	/order/add	pending	critical	-

A database schema (E-R diagram):



Links to code:

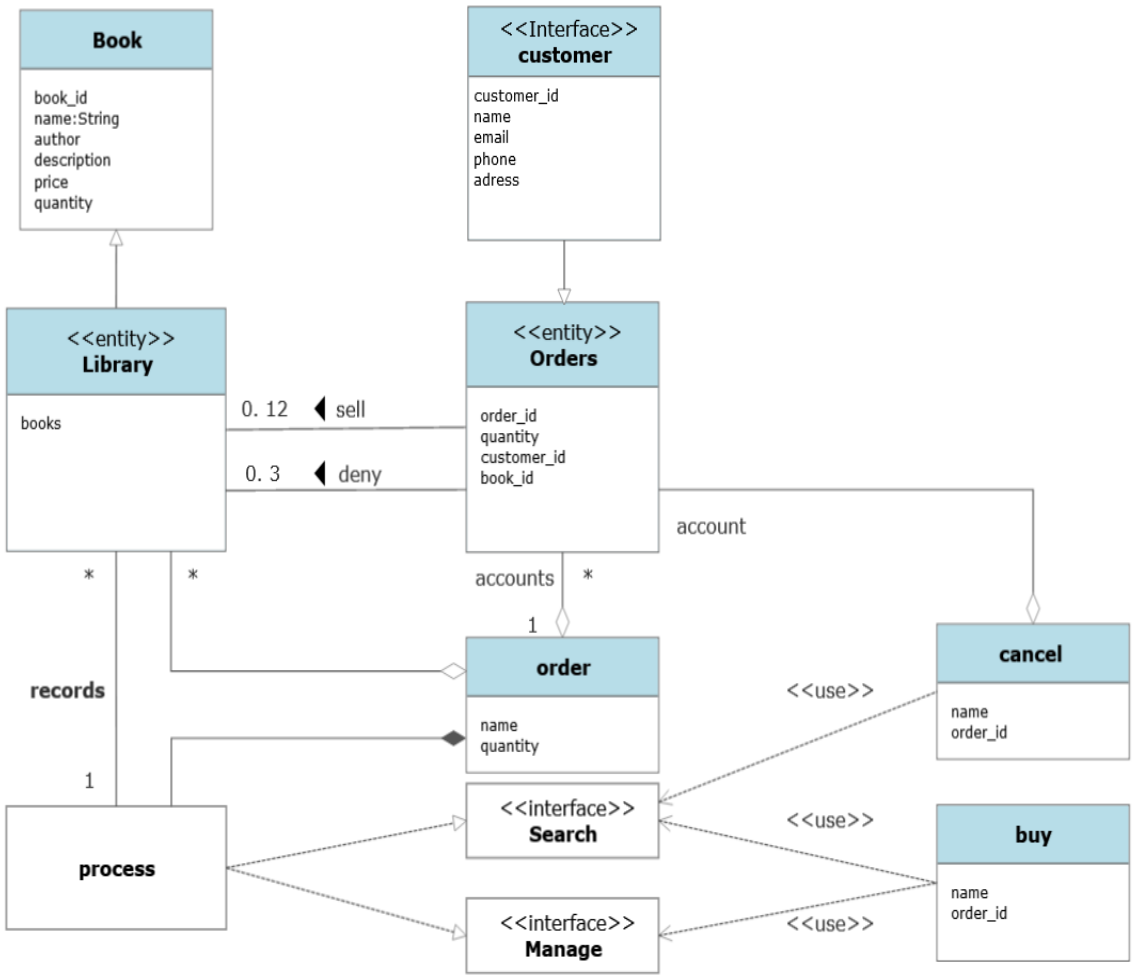
https://github.com/1Ahm1/D0018E_project

Test case specifications:

In progress.

UML Diagram

The UML diagram below is created to visualize the connections between the tables (within the database) and to clarify the process.



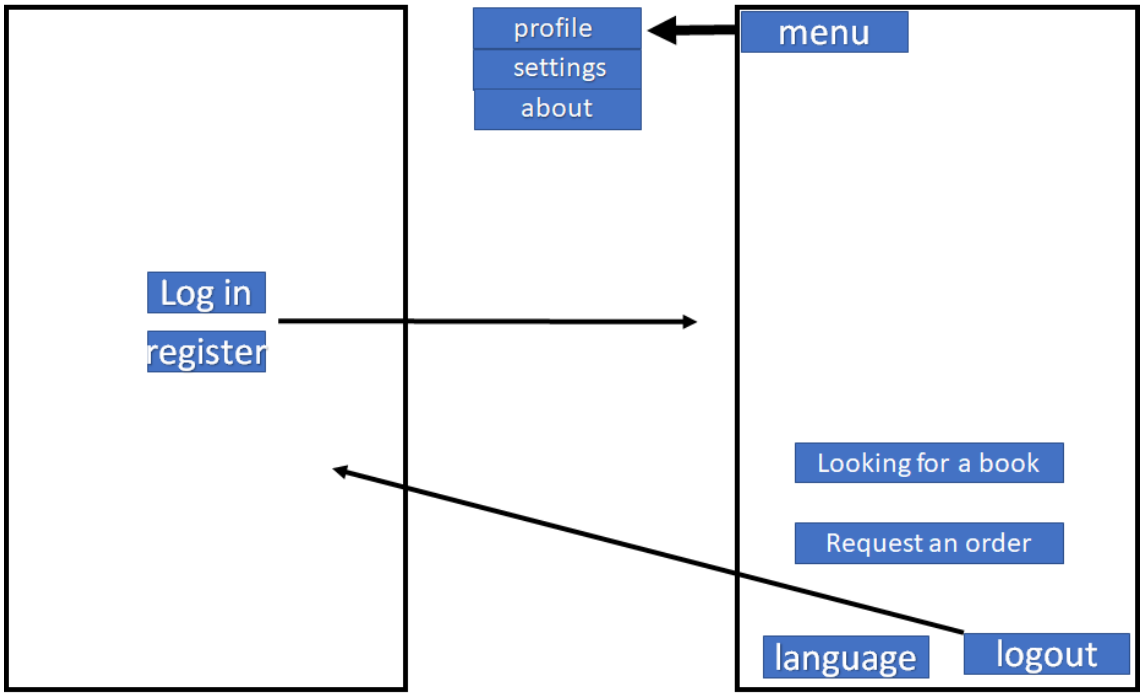
We divided the task into small tasks, and we set priorities on them in sheet 1 to organize the work in the group. To select tables in sheet 2, click on the link below to see:

D0018E_scrum_plan

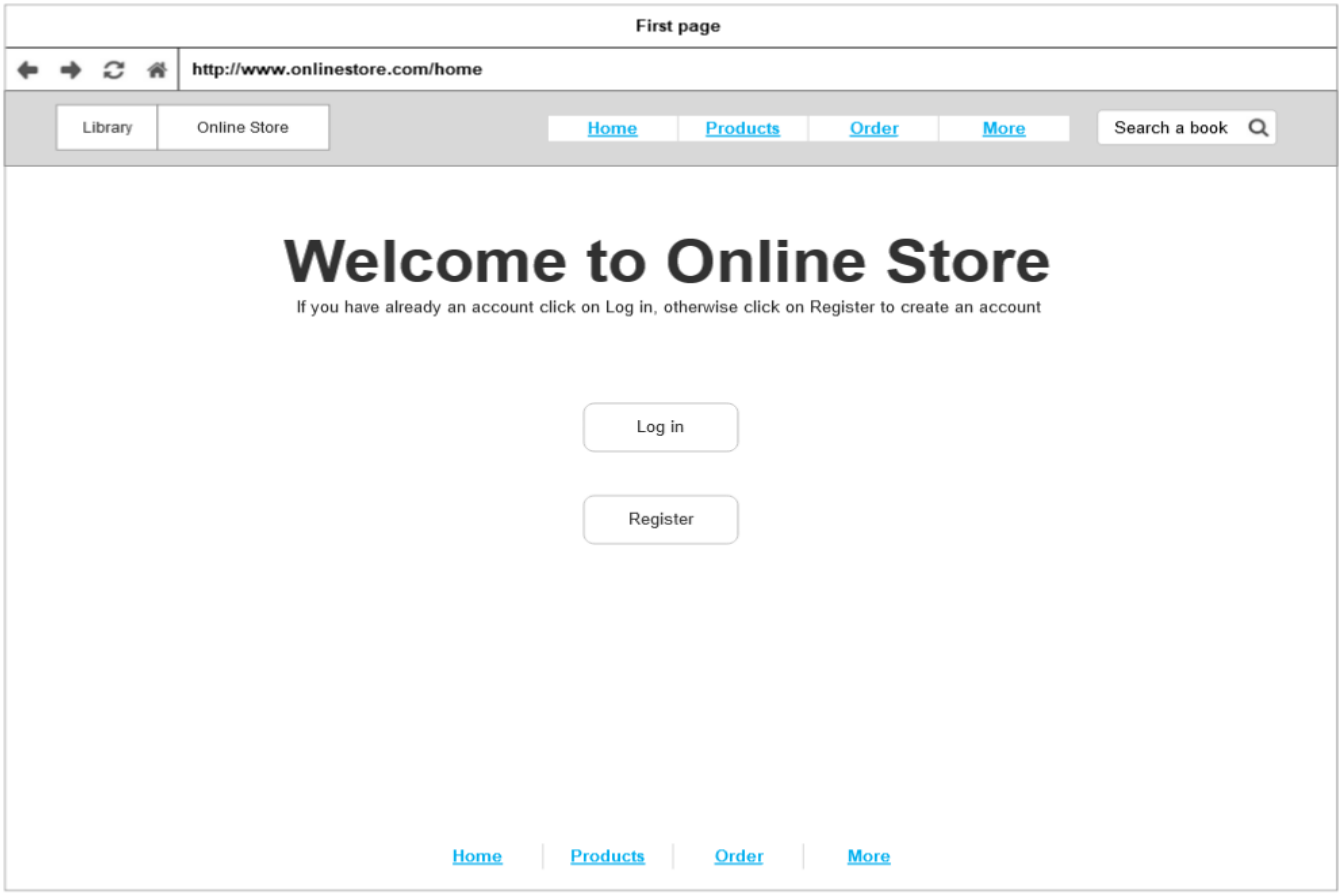
Description of scenarios and the database which we use in this project:

1. Login and registration:

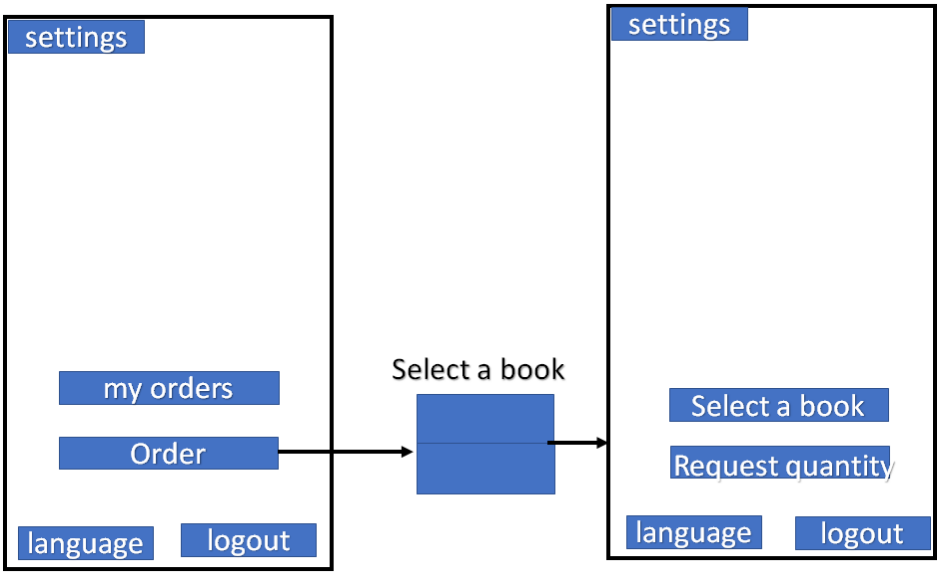
At the beginning there are two alternatives. The first is ***Log in*** if the customer has an account already. The second option is ***Register*** when the customer does not have an account.



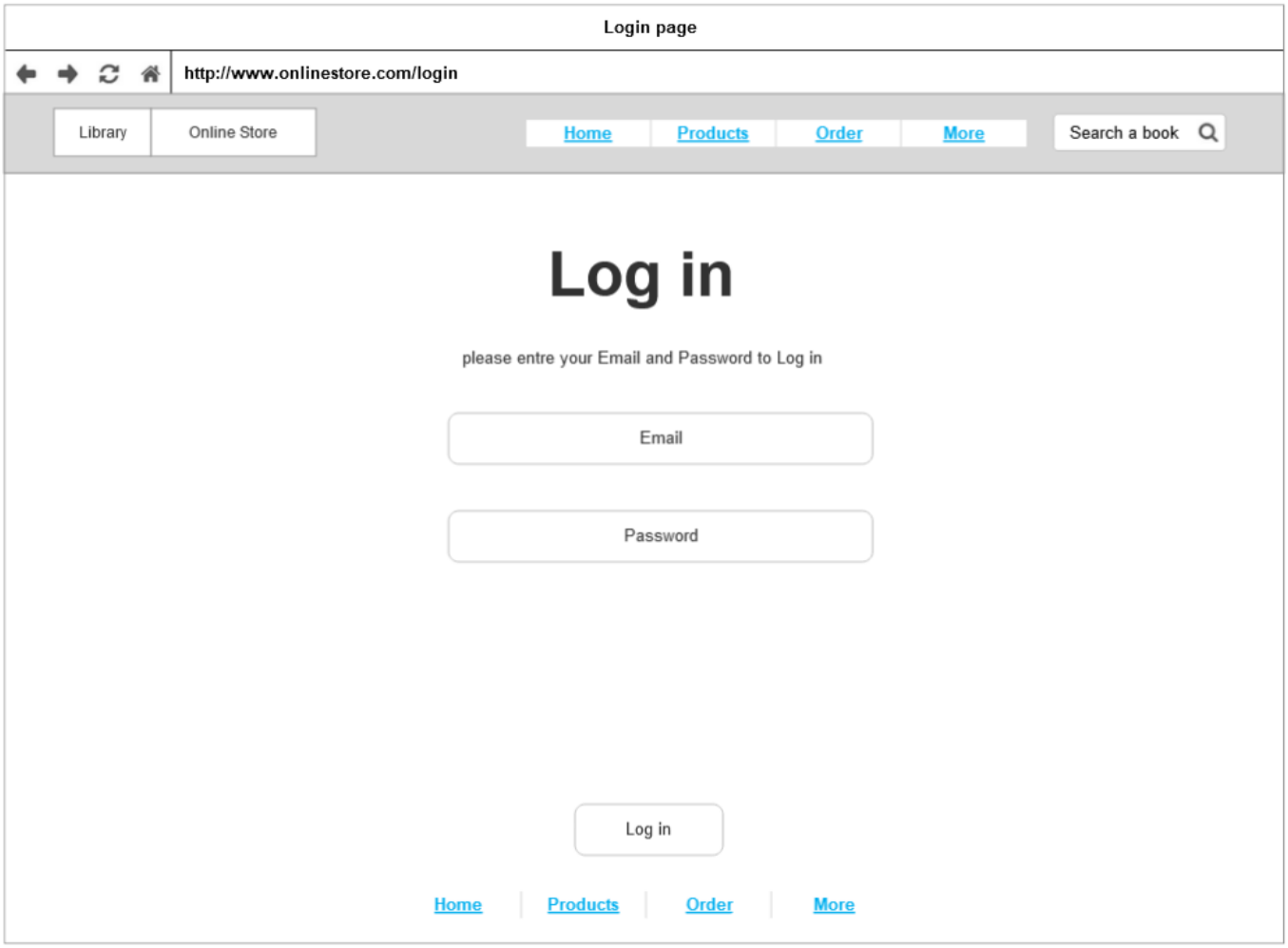
Each option move to another screen to complete the process



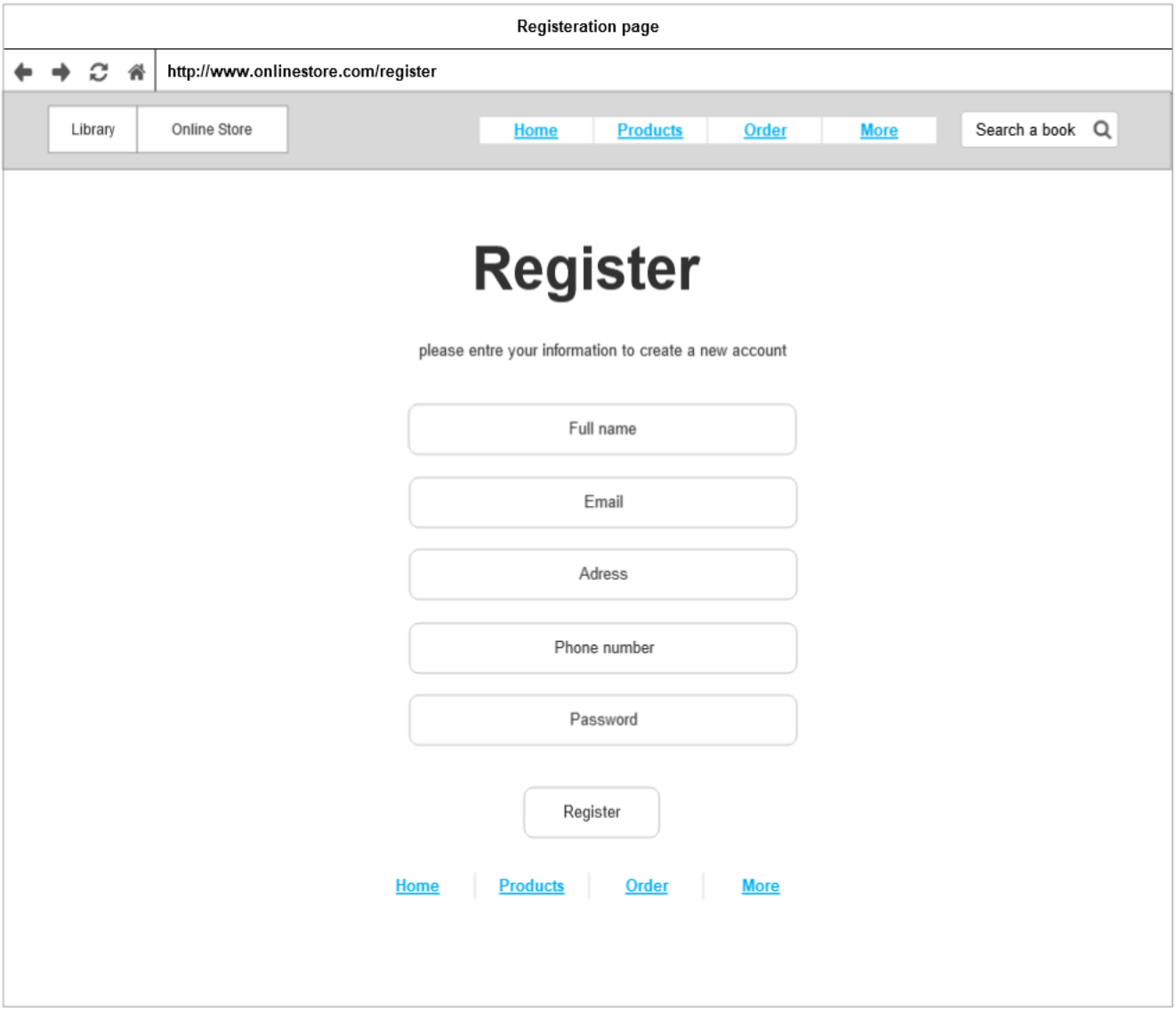
In the picture above we can see that when the customer clicks ***Log in*** we move to another page to make Log in URL: /login
In the picture above we can see that when the customer clicks ***register*** we move to another page to make register, URL: /register



To log in you need to enter a valid ***Email*** and ***password***

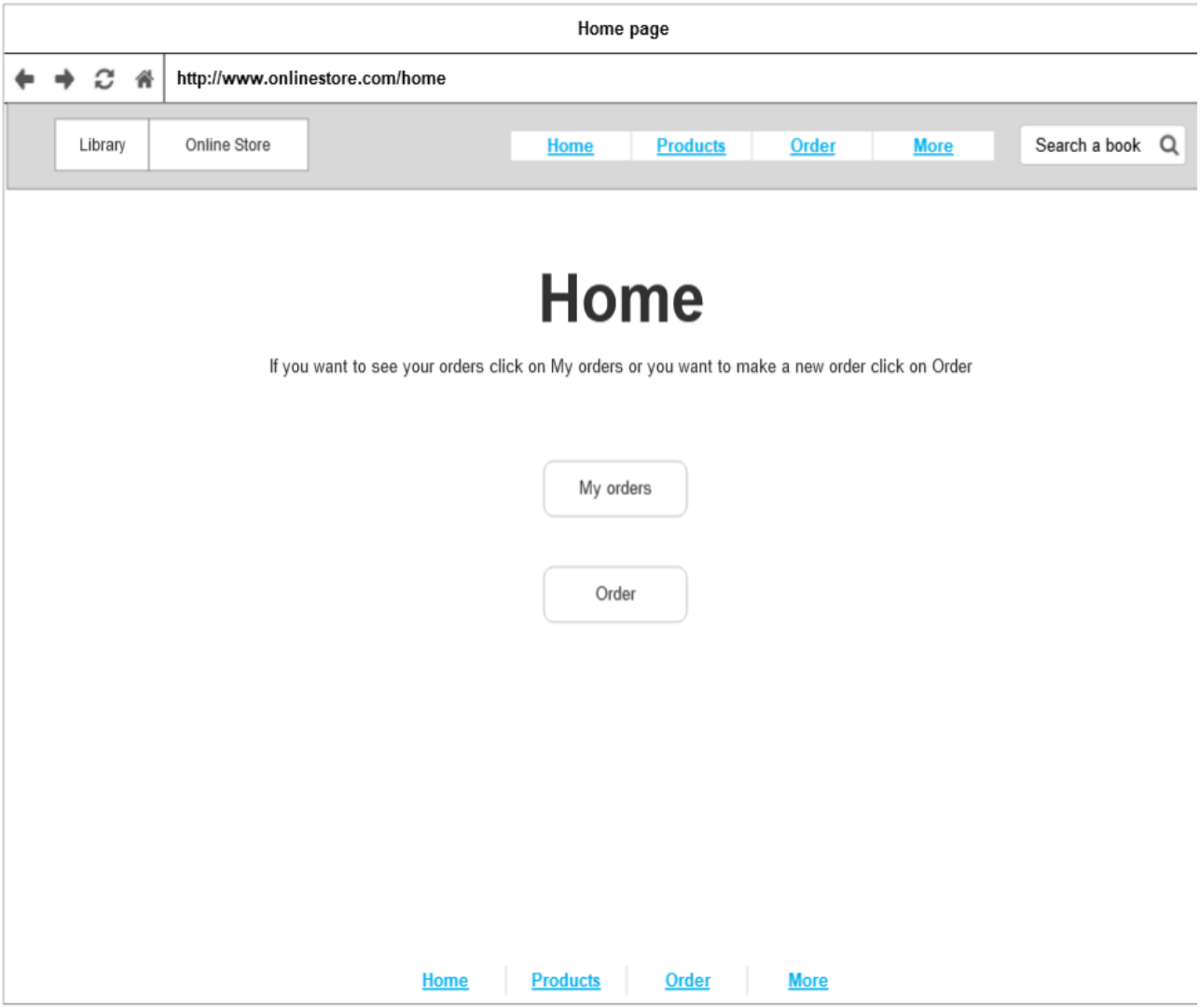


To register a new account you need to enter ***Full name, Email, Address, Phone number, Password*** and then ***Register***.



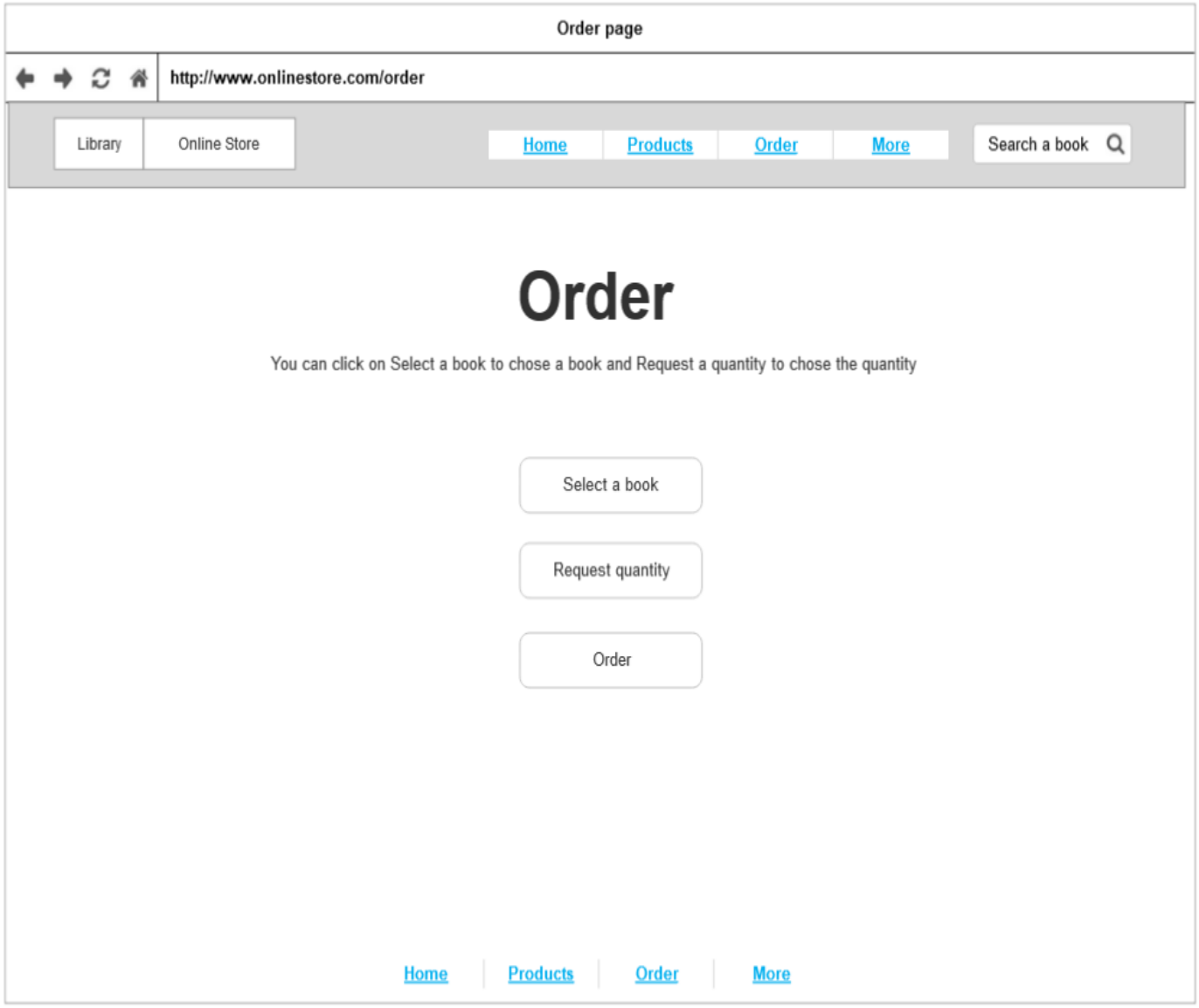
2. Home page and (Scenario) Order:

In the page “Home” below, we have two options. The first option ***My orders*** is to show the oldest order or the second option is to choose ***Order*** to make a new order.



If a customer selects an ***Order***, the customer can choose a book name and quantity. But if the customer chooses ***My orders*** it will show previous orders. As shown in the two pages below:

Here you can select a book by clicking ***Select a book***, and choose a quantity by clicking on ***Request quantity*****.** Then by clicking on ***Order*** you make an order.



Here in ***My orders*** you can see the history of your orders shown in a table of ***order number, book name, quantity, date, status.***