



Project Report

Project Topic: Computer Shop

GitHub Link: https://github.com/Tanzamul/Computer_Shop

Submitted By:

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Section: 05

Submitted to

Course Instructor

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Introduction

The project is a website of a "computer shop." This website will help both Buyer and Seller. It will help the buyers getting their product by providing details of each product. The Seller can save time as he doesn't have to introduce a product to a customer. This website is straightforward to use. It has an optimized and user-friendly interface. Using this website, a Customer will be more satisfied as they will get the chance to learn and select the best product according to their budget.

About Us

Our team has two members. We had to spend quality time on this project. We had to learn many things related to this project and implement them at the same time.

Learn more at: https://github.com/Tanzamul/Computer_Shop

Background and Product Context

The modern-day computer has become an essential part of our daily life. Also, Their usage has increased much more during the last decade. Nowadays, we use The computer in every office, whether private or government. Also, they are used in many fields like agriculture, designing, machinery making, defense, and many more. Above all, They have revolutionized the whole world.

Each year, millions of computers and computer components are being sold all around the world. Not every people know computer components. They depend on the Seller's information. What if the Seller is dishonest?

The idea of the project is to create an environment that will be helpful to Both buyer and Seller. This environment will help the Seller as well as buyers At the same time, They also can search for any product in the search option. Customers also can see details about a product by clicking on the product. Customers also can add multiple products to the cart. They can even select products from categories. There are several categories of products, such as laptops, processors, RAM, GPU, Monitor, Storage, etc. A customer also can select their brand of products from the Brand option. There are also Log in and Sign up options. A customer can order a product from home if the Customer has an

account in Shop. For this, a customer needs to Sign up first by providing necessary information. After creating an account, a customer can order a product online.

The motives of the project are as follows:

- Users can create a Customer account through the site.
- Users can order products from anywhere by using this website.
- Users can also learn about component details by selecting them.
- Users can Search their favorite Brands Products and add them to the cart.
- Users can easily contact the Seller for any inquiry or guarantee purpose of products by using Contact Us option.
- An Admin can Update, Delete, Price change, Take orders, Verify a Customer's information.

The proposed system is designed to eliminate the disadvantages of the existing system. The website also has the About Us and Contact Us option for customers. If a customer wants to contact the Seller, then he can use these options. Contact Us can also use to guarantee the purpose of products. This website will also be helpful for those people who want to learn about components, who want to buy components sitting at home, a customer from a remote area who wants to purchase components through the Internet.

The system ensures:

- Increases efficiency and reliability.
- Easier Access and easy to use.
- Provide accurate information to the user for making necessary decisions.
- Accessibility, Usability, and Understandability.
- The options used can be easily accessed, used, and realized.
- Ensure the security of the Customer's information.

Major Challenges to developing this system:

- According to Bangladesh's perspective, the system should be much easier for the users.
- The database must be encrypted that the personal information of a user is kept secure.

- Online orders and payment systems must be structured with proper instructions.
- The process must be faster with no failure while placing an order.

System requirements:

Non-functional requirements:

Efficiency requirement: When an online computer shop will be implemented, then The user can order products and view product information fast & easily.

Reliability requirement: The system should accurately perform on order and show the details Of products. Also, show their specifications.

Usability requirement: The system is designed for a user-friendly environment so that the user And admin of Computer Shop can perform various tasks easily and in an effective way.

- The system must be able to verify the information.
- The system must be able to store the information in the database.
- The system must be able to retrieve information when required by the admin.
- The user id is provided when they create an account.
- The user must be able to log out after they had finished a particular session.
- The system must allow the users to place an order and view product specifications.
- The system must be able to process information from the database.
- The system must allow admin to add products, category, price, availability, and even Add new users.
- Only administrators and no one else should modify the records.

Front-end plan:

- ❖ Main page with search
- ❖ About Us page
- ❖ Contact Us page
- ❖ Product Page
- ❖ Register/Login Page
- ❖ Cart page

Back-end plan:

- ❖ Searching:
 - Text-based
- ❖ Category/Brand:
 - Total row in category/company based
- ❖ Login/Signup:
 - Sign up form
 - Login, secured with MD5 Hashing
 - MySQL Database

Tools and Resources:

- HTML / CSS
- PHP
- Bootstrap
- MySQL
- Javascript
- Google Map API

Database:

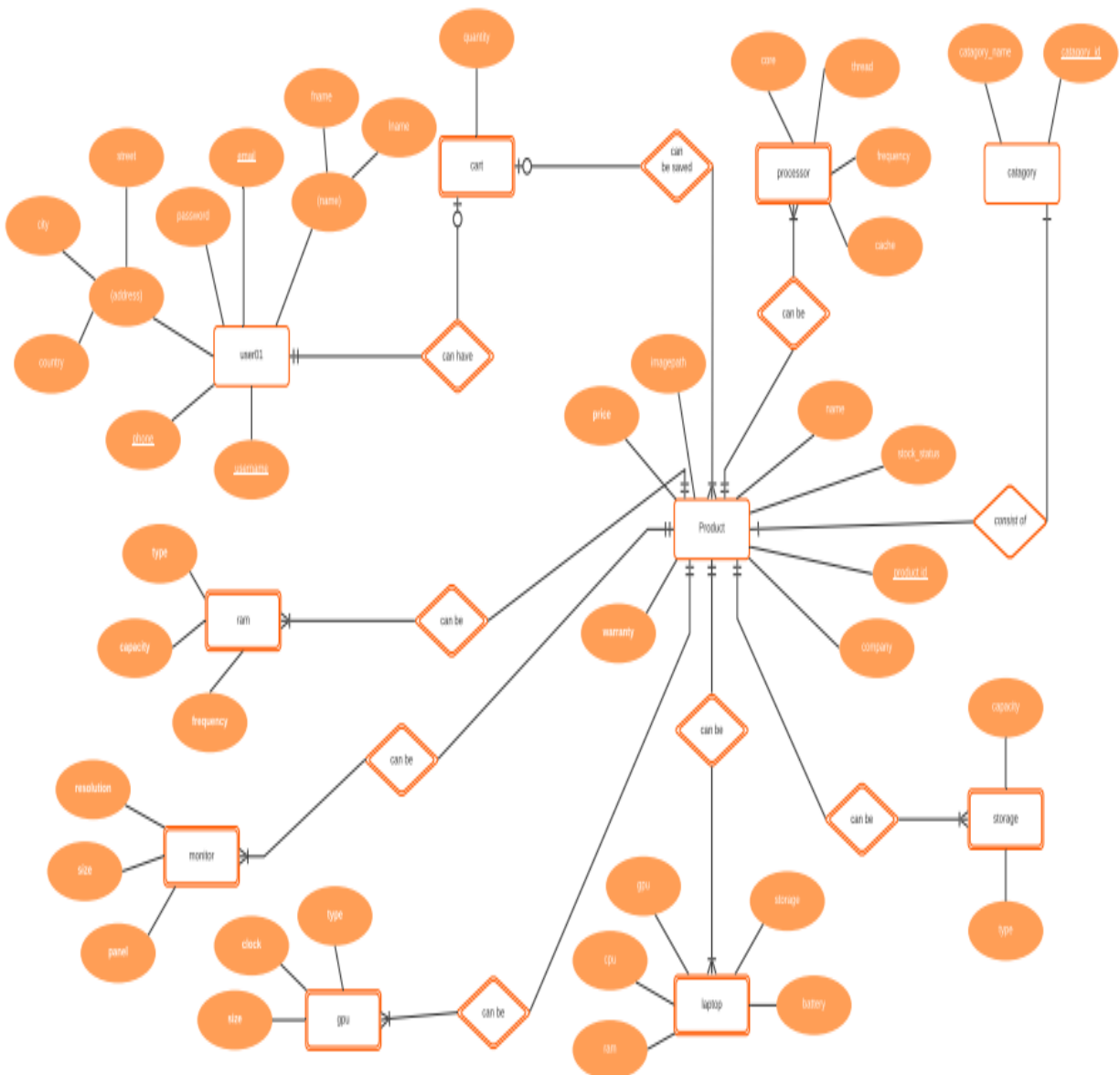
We will use MySQL for the database. We choose MySQL because MySQL is the world's most popular open-source database is that it provides comprehensive support for every application development needs.

Server-Side:

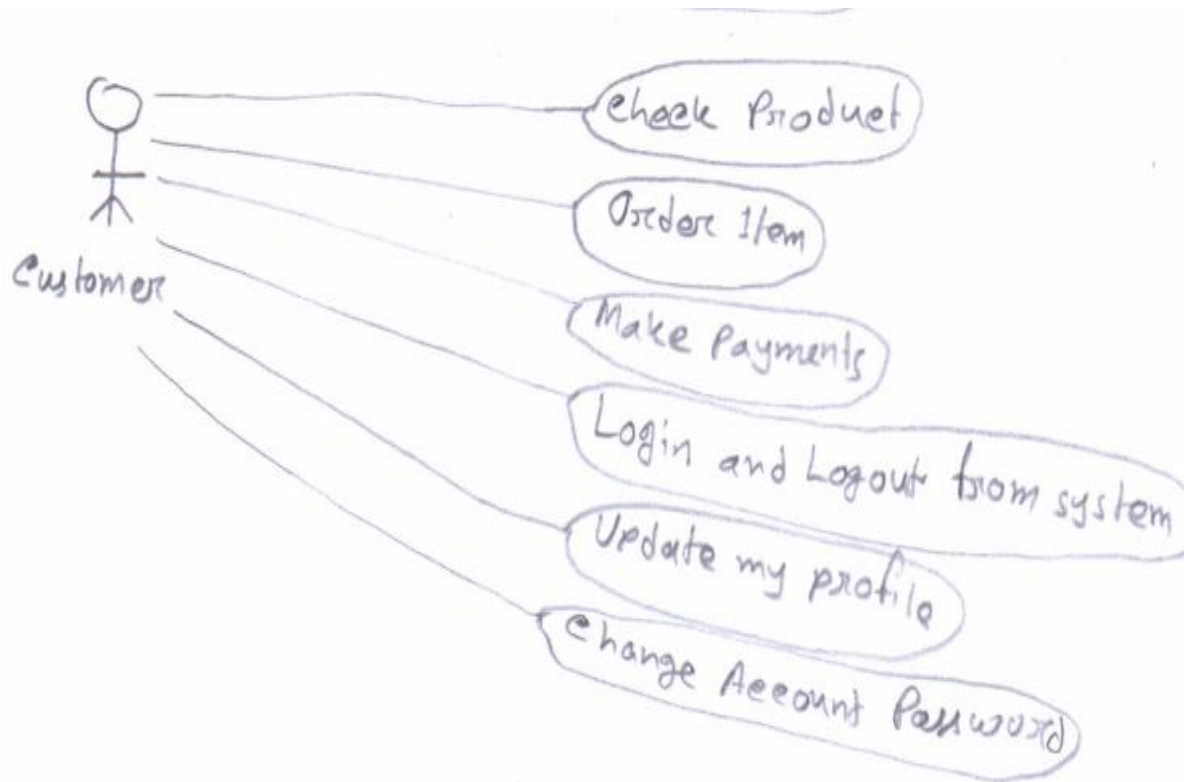
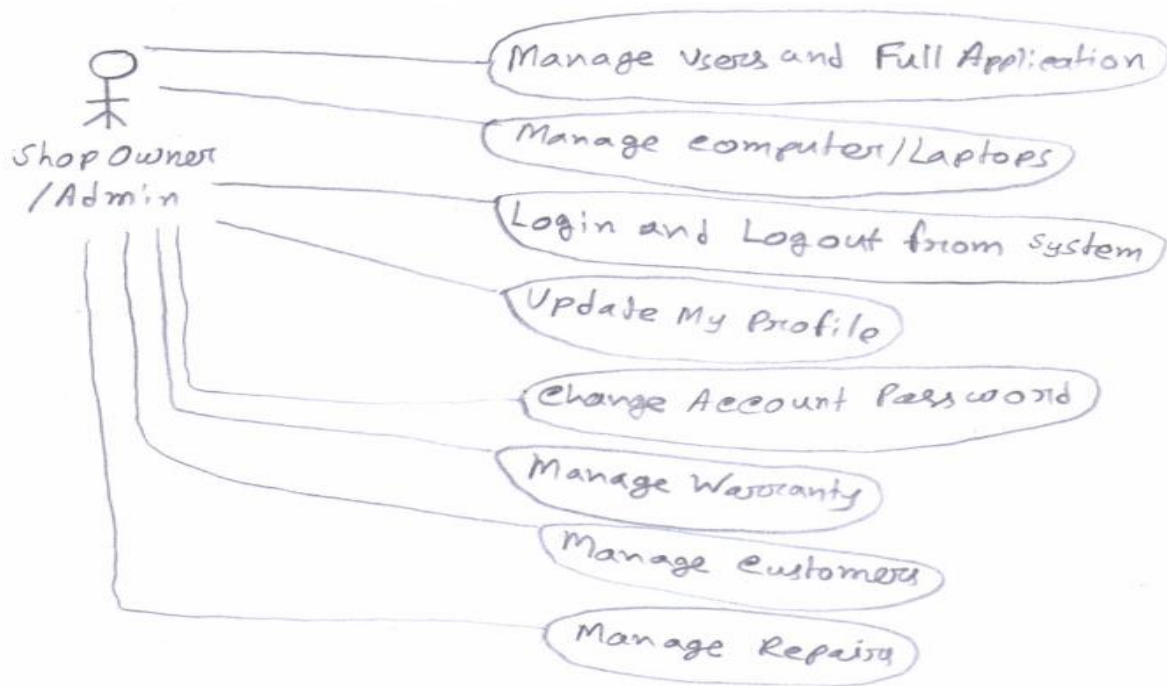
We will use PHP as a server-side language as it is cheap, faster, and much more flexible to MySQL. Also, there are good online documentation and community available.

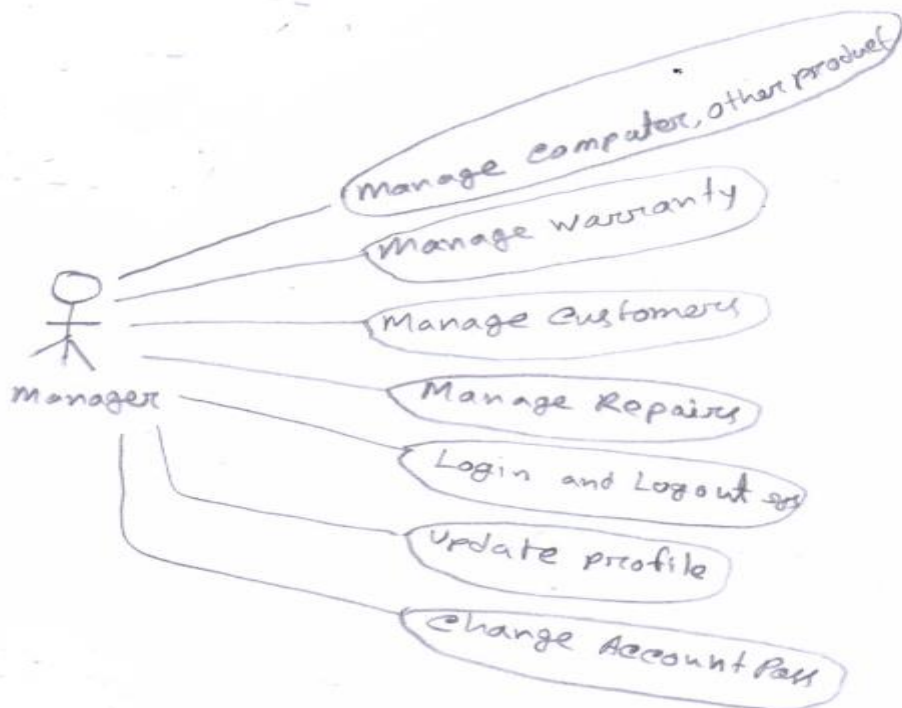
ER Diagram:

Our database has ER diagram like below. The table *user* contains all the information of the user. A user can save the desired product in a cart. Every product has a common feature among them from which the *product* table is made of. Their unique feature can be found in their own named table such as processor, ram, GPU, storage, monitor, and laptop.

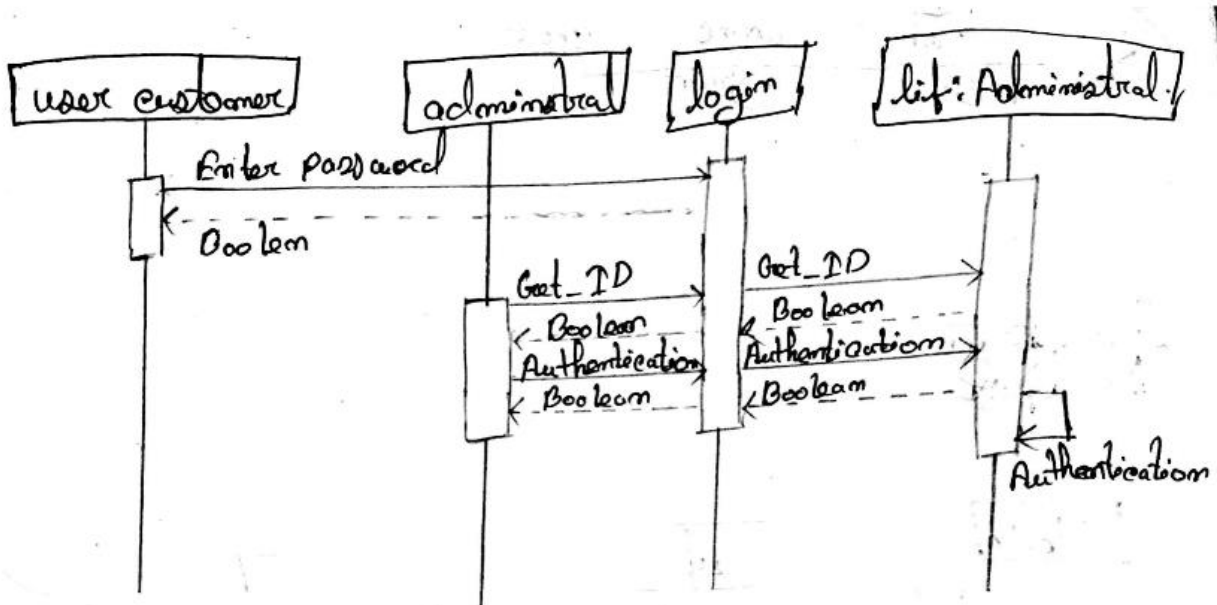


Use Case Diagram(One diagram per actor):

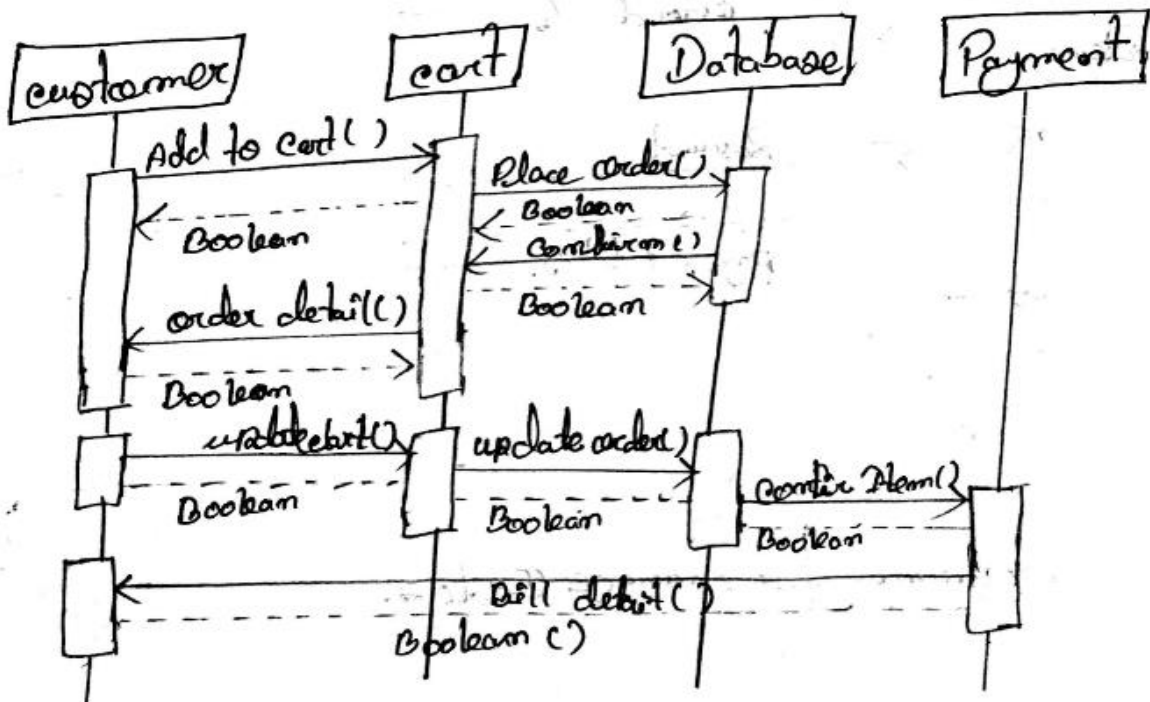




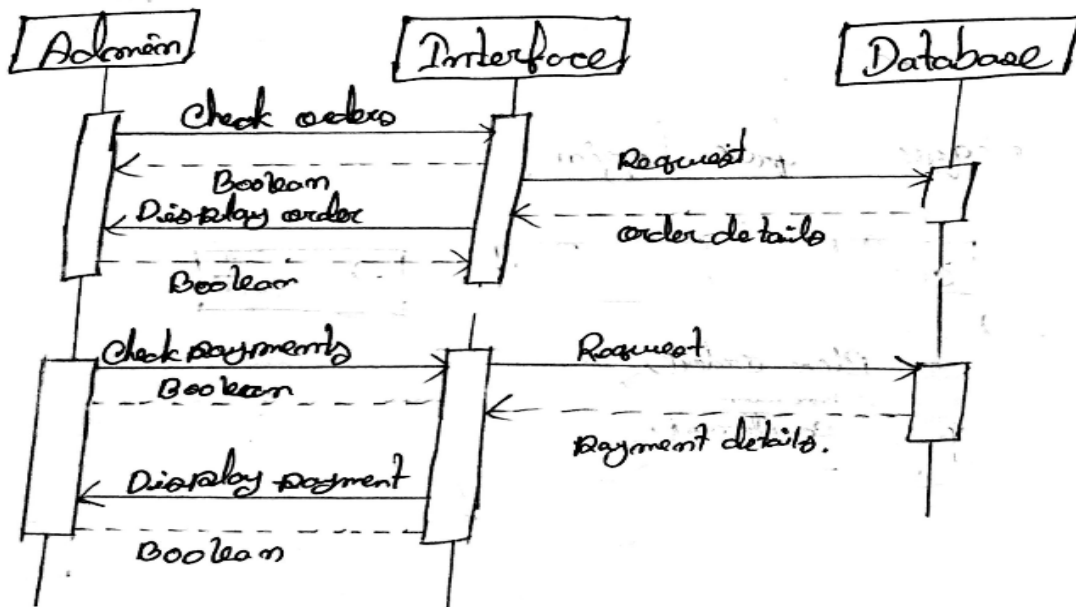
Sequence Diagram:



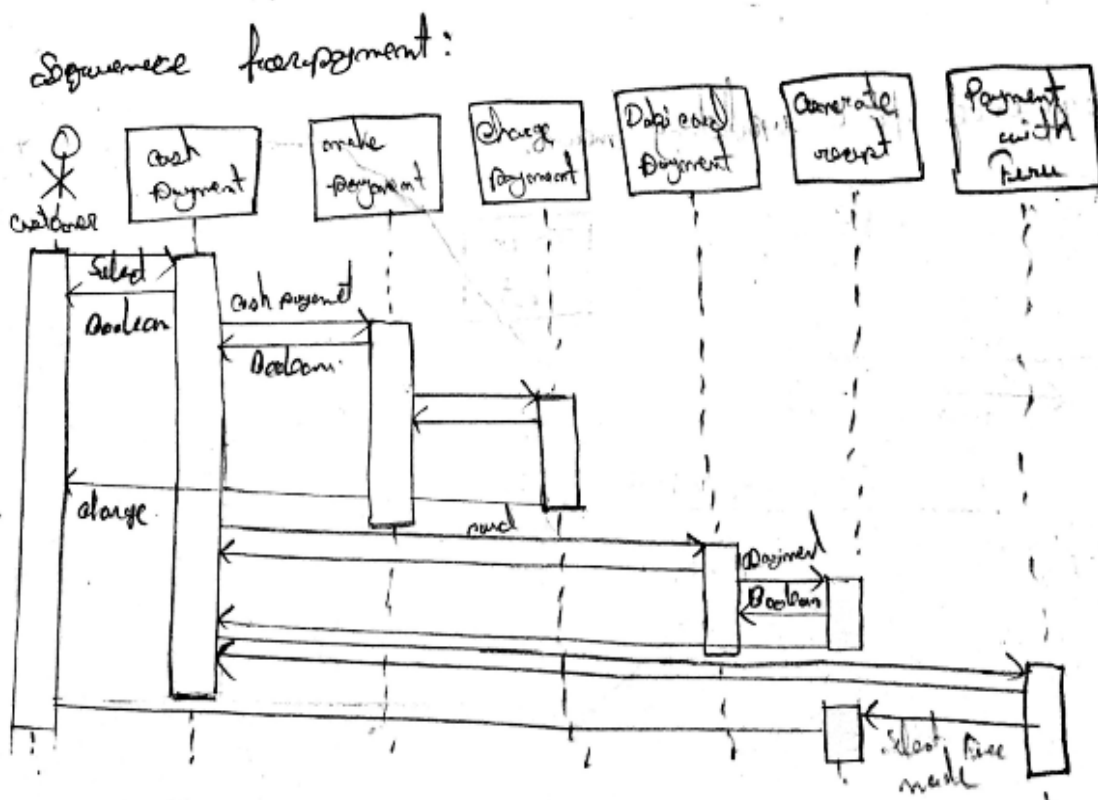
Sequence for login



Sequence for Customer Cart.



Sequence for manage Orders.

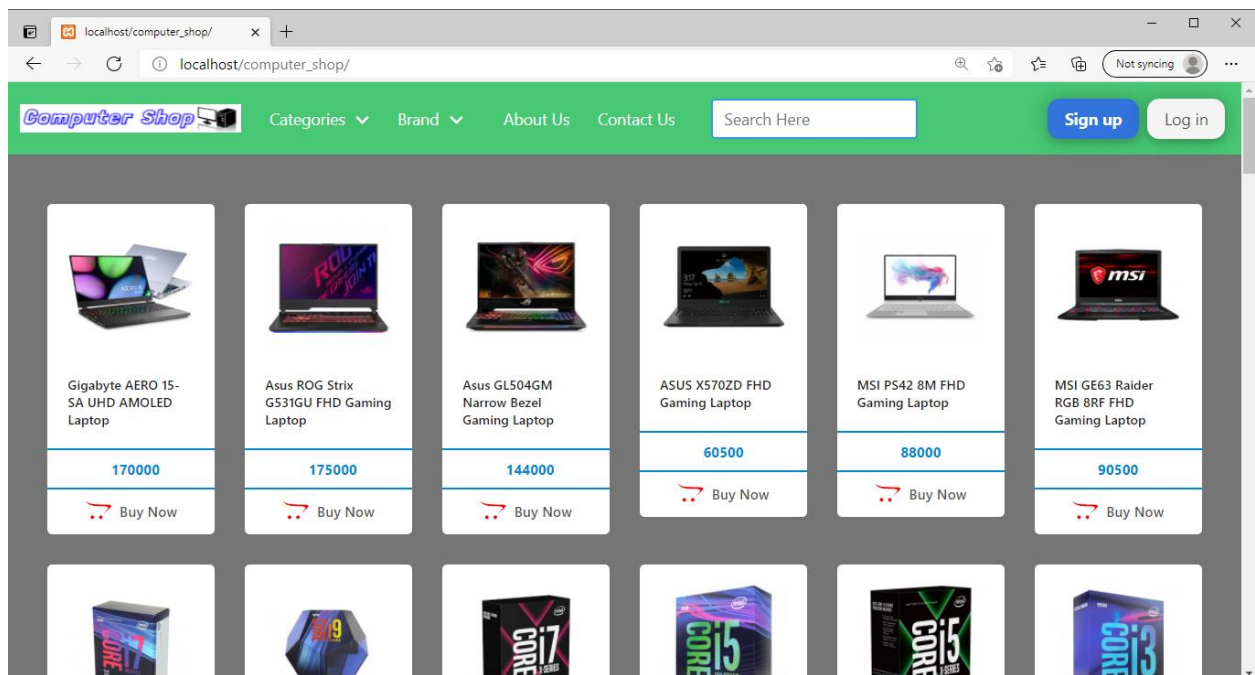


Software Testing Part and all others project materials uploaded on GitHub.

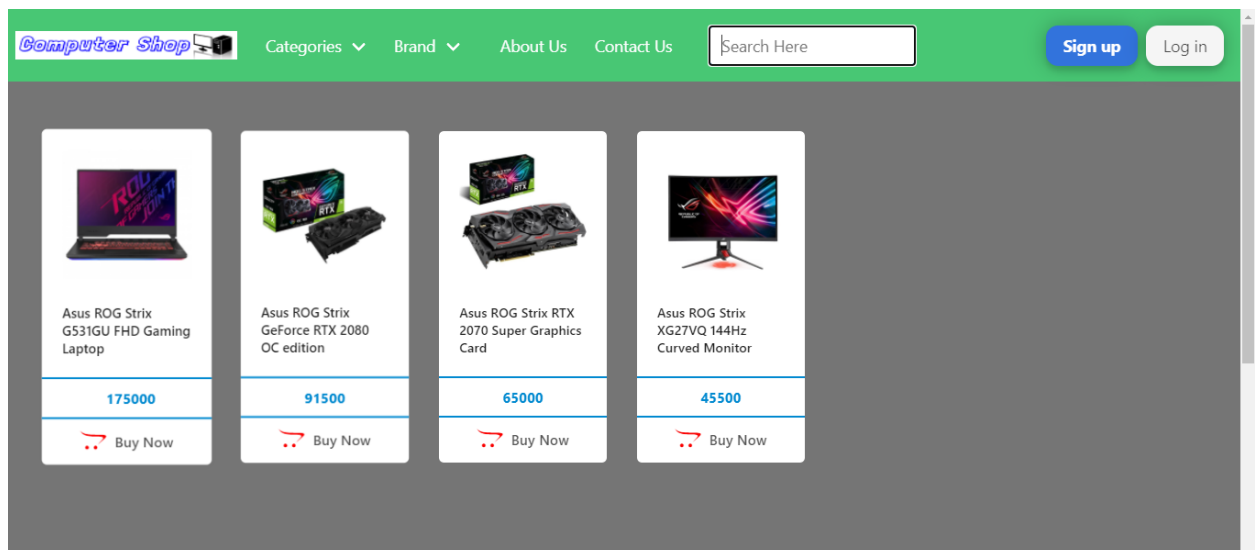
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System Overview:

Home Page:



Search Product:



Create Account:

The screenshot shows a web browser with a green header bar. The header contains a logo on the left, navigation links (Categories, Brand, About Us, Contact Us), a search bar, and 'Sign up' and 'Log in' buttons on the right. The main content area has a dark gray background. In the center, there is a green rounded rectangle containing a form. The form has input fields for First Name, Last Name, Username, Email, Password, Phone, Street Address, City, and Country. Below these fields is a blue 'CREATE' button and a link that says 'Already registered? Sign In'.

Computer Shop

Categories Brand About Us Contact Us Search Here Sign up Log in

First Name

Last Name

Username

Email

Password

Phone

Street Address

City

Country

CREATE

Already registered? Sign In

Login:

The screenshot shows the same web browser as the previous one. The main content area has a dark gray background. In the center, there is a green rounded rectangle containing a form. The form has input fields for Username and Password. Below these fields is a blue 'LOGIN' button and a link that says 'Not registered? Create an account'.

Computer Shop

Categories Brand About Us Contact Us Search Here Sign up Log in

Username

Password

LOGIN


Not registered? Create an account

Product:

Computer Shop

Categories ▾Brand ▾About UsContact Us

localhost says
Clicked item will be added on your cart!
OKCancel



Asus ROG Strix 6531GU FHD Gaming Laptop
175000
ADD TO CART

Specifications:

Basic Information		
NAME	Asus ROG Strix 6531GU FHD Gaming Laptop	
COMPANY	Asus	
STOCK STATUS	Available	
PRICE	175000	

Main Information

Contact:

Computer Shop

Get started

Home

Sign up

Downloads

About us

Company Information

Contact us

Reviews

Support

FAQ

Help desk

Forums

in f

CONTACT US

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Future Work:

For future expansion, the system can be web enabled to make various inquiries about computer-related products. Payment methods can be developed with an online verification system such that a booking will be automatically confirmed after successful payment. Also, there can be developed a route map so that a customer can find the Computer Shop. But to do this, a routing API is needed, which can be gained in the future.