Department of Technical Education
Capstone project
Document CIE-2

Capstone project Title:

E-Commerce Online Medicine Shopping

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Description of Technology Used:

Web Technology:

Web Technology refers to the various tools and techniques

that are utilized in the process of communication between different types of devices over the Internet. A web browser is used to access web pages. Web browsers can be defined as programs that display text, data, pictures, animation, and video on the Internet.

→ **Types of Web Technology:**

a. Browsers
b. HTML and CSS
c. Programming Languages
d. Frameworks
e. Web Servers
f. Databases Protocols
g. Data Formats

→ **Advantages of web technology.**

a) Independently accessed from any location.
b) There is no data loss, we can recover the data.
c) Save the time.
d) Easy Data Sharing and Collaboration.
e) Centralized Security.

- **Cloud Based Technology:**

To live the project, we need to purchase cloud server.

Cloud computing technology gives users access to storage, files, software, and servers through their internet-connected devices: computers, smartphones, tablets, and wearables. Cloud computing providers store and process data in a location that's separate from end users.

→ **Types of Cloud Based technology:**

a) **SAAS**:- Software as a Service.
b) **PAAS:-** Platform as a Service.
c) **IAAS:-** Infrastructure as a Service.

→ **Advantages of Cloud Based Technology:**

a) Accessibility anywhere, with any device
b) Ability to get rid of most or all hardware and software
c) Higher performance and availability
d) Price-performance and cost savings.

- **Open Source Technology:**

For our project we not require to purchase any software's and libraries.

✓ **XAMPP**

Xampp is a cross-platform and open-source tool, which makes it an idea choice of web developers. It is the acronym of X-Cross Platform, Apache, MySQL, PHP, Perl.

✓ **PHP**

PHP is an open-source scripting language used for creating dynamic and interactive web pages and various digital platforms.

✓ **PhpMyAdmin**

Php Admin is an open source and free administration tool for mysql.

✓ **Software Libraries**

Software library are freely available.

❖ Details of Hardware devices

➢ Processor: -

The processor is a chip or a logical circuit that responds and processes the basic instructions to drive a particular computer. We have used average I3 processor. The Core i3 processor is available in multiple speeds, ranging from 1.30 GHz up to 3.50 GHz, and features either 3 MB or 4 MB of cache. Core i3 processors are found as dual-core, having two cores.

- **Types of processors: -**

✓ **Microprocessor: -**

The general-purpose processors are represented by the microprocessor in embedded systems. There are different varieties of microprocessors available in the market from different companies.

✓ **Microcontroller**

The microcontroller is basically a computer that comes in various packages and sizes. The reading input and responding to output is the basic function of the microcontroller.

➢ RAM: -

Random access memory. It is one of the part of the Main memory, also known as Read Write Memory. Random Access memory is present on the motherboard and the computer's data is temporarily stored in RAM. We have used average RAM of 2GB and 4GB.

✓ **Types of RAM: -**

- **SRAM** (Static Random-Access memory)

SRAM is used for Cache memory, it can hold the data as long as the power availability is there. It is refreshed simultaneously to store the present information. It is made with CMOS technology.

- **DRAM** (Dynamic Random Access Memory)

DRAM is used for the Main memory, it has a different construction than SRAM, it used one transistor and one capacitor which is needed to get recharged in milliseconds due to the presence of the capacitor.

Advantages of RAM:-

- High speed
- Temporary memory
- Faster than secondary memory
- Fastest type of memory in computer

❖ Details of software products

Software products we have used in our project

- **Php designer**

  PhpDesigner 8 is a fast and powerful PHP IDE and PHP editor with fill-blown HTML5, CSS3 and JavaScript built-in editors. Highly customizable IDE with intelligent syntax highlighting, debug support, syntax analysing support for object-oriented coding.

- **VS Code**

  Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft with the electron Framework, for windows, Linux and mavOS. Features include support for debugging, syntax highlighting.

- **XAMPP Server**

  XAMPP is a cross-platform and open source tool, which makes it an ideal choice of web developers. It is the acronym of X-cross platform, Apache, MySQL, PHP, and Perl.

- **Operating System**

  An operating system is system software that manages computer hardware and software resources, and provides common service for computing programs.

  Types of OS

  - Batch Operating system
  - Time-sharing operating system
  - Distributed operating system
  - Network operating system
  - Real-time operating system

- **Browser**

  A browser is an application program that provides a way to look at and interact with all the information on the World Wide Web.

  Types of browser

  - Internet explorer
  - Mozilla Firefox
  - Google chrome
  - Safari
  - Microsoft edge

❖ Programming Languages

- **HTML:**

  HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. Is a client-side scripting language. Hypertext defines the link between the web pages and markup language defines the text document within the tag that define the structure of web pages.

- **CSS:**

  CSS stands for Cascading Style Sheets.CSS describes how HTML elements are to be displayed on screen, paper, or in other media.CSS saves a lot of work. It can control the layout of multiple web pages all at once. External stylesheets are stored in CSS files.

- **JavaScript:**

  JavaScript (JS) is the most popular lightweight, interpreted compiled programming language. It can be used for both Client-side as well as Server-side developments. JavaScript also known as a scripting language for web pages.

- **Bootstrap:**

  Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML,CSS and JS framework for developing responsive, mobile-first websites. It is Faster and Easier way for Web-Development. It creates Platform-independent web-pages. It creates Responsive Web-pages.

- **PHP:**

  PHP is an acronym for "PHP: Hypertext Pre-processor". PHP is a widely-used, open source scripting language. PHP scripts are executed on the server. PHP is free to download and use.

❖ Description of the components in the system

1. **Admin Login:**

   Admin must login with correct details. Admin must have correct username and password details that matches the parameters. Admin manages whole of the process from adding categories, products to the appropriate category, product details and images, offers on the products, viewing the order list.

2. **Manage Categories:**

   Categories are according to admin's requirement and are managed by admin itself. There can be number of different categories where products can be viewed according to category they belong.

3. **Manage Products:**

   The products are added to the respective categories .Here the products are displayed with their correct names, description along with image.

4. **View Orders:**

   Here admin can view the orders which are ordered by the users(customer's).

5. **Offers:**

There will be offer's on the products where users get offers on the products they ordered where a coupon code is generated using the code the discount is given on the order.

6. **User Registration:**

Here user must register with correct details like name, username, password, email, phone-number, and address where user gets username and password to login.

7. **User Login:**

User can login using this correct details as he gets a username and password above for easy access to order products.

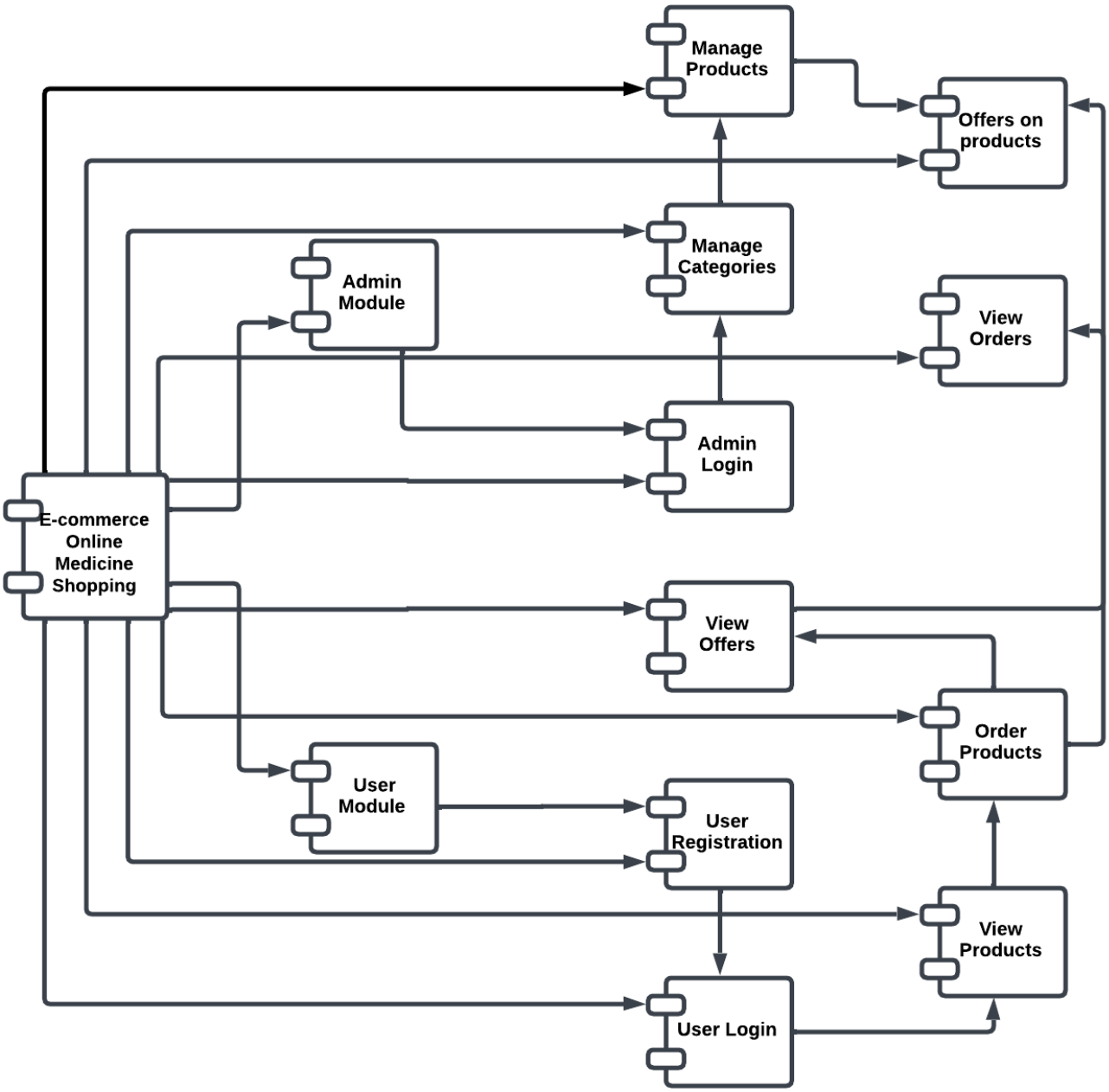
8. **View Products:**

Here user views the products with their image, name, description, or according to their requirements and then can order products.

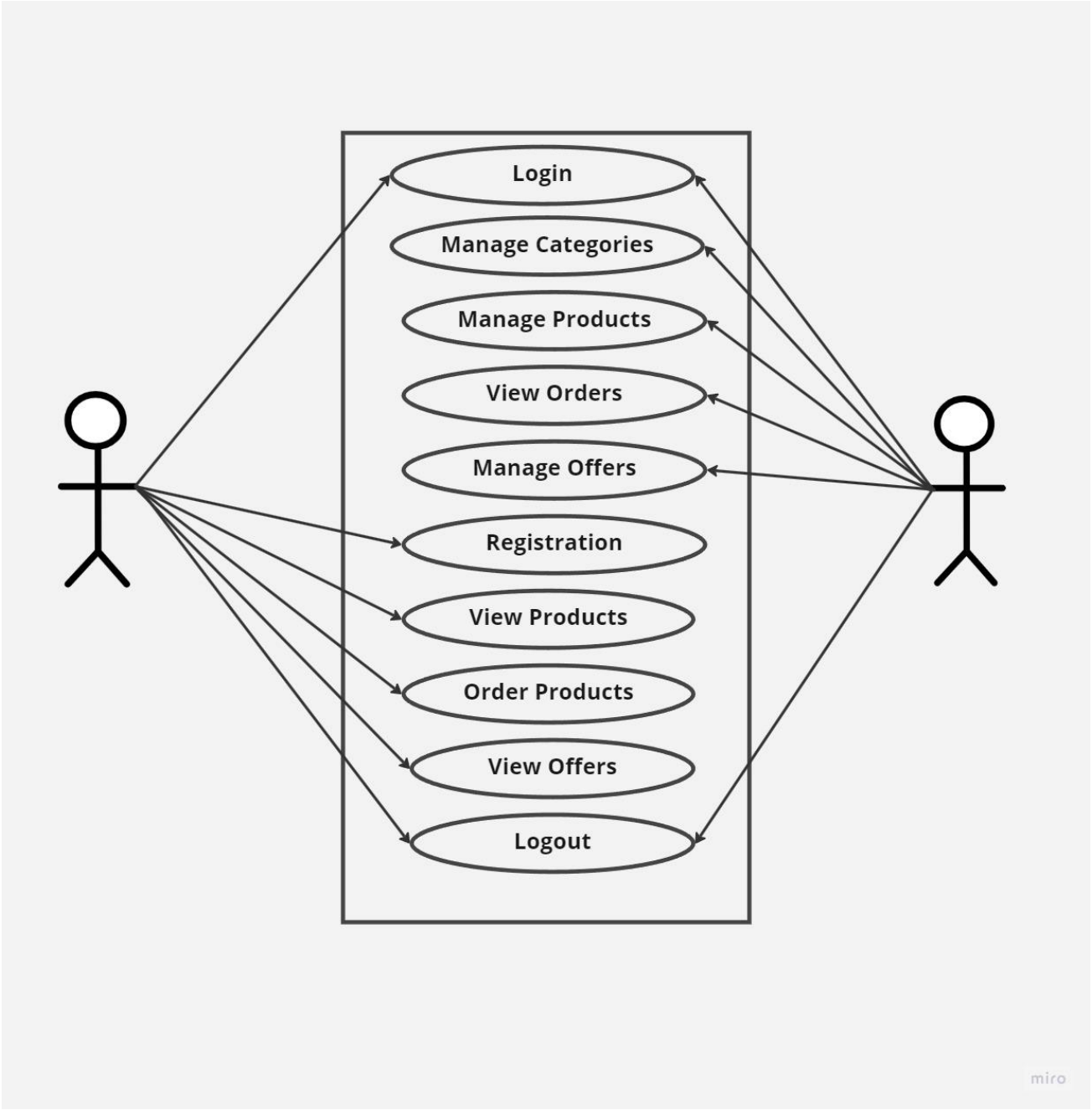
9. **Order Products:**

Here user orders the product they need and gets offer on the products they order for the next time.

Component diagram



Use Case


Login
Manage Categories
Manage Products
View Orders
Manage Offers
Registration
View Products
Order Products
View Offers
Logout
miro

❖ Construction or Fabrication details

In this we are going to explain about execution of our project modules.

1. **Admin login: -**

   In admin login, first we have collected the requirements then analyse the requirements gathered. Then we design the admin login form. After designing the page it is validated, where the form must be filled with correct details in each field . Then we performed the database connection. And finally, after completing all the steps testing is done.

2. **Manage Categories:**

   For managing categories, first we have collected the requirements then analyse the requirements gathered. Then we design the add categories page. After designing the page it is validated, where the categories are specified to match the correct parameters. Then we performed the database connection. And finally, after completing all the steps testing is done.

3. **Manage Products:**

   For managing products, first we have collected the requirements then analyse the requirements gathered. Then we design the page to add products. After designing the page it is validated, where the products must be added in specific category it belongs to. Then we performed the database connection. And finally, after completing all the steps testing is done.

4. **View Orders:**

   To view orders , first we have collected the requirements then analyse the requirements gathered. Then we design view order page. After designing the page it is validated, where order list is displayed with the list of products and user details. Then we performed the database connection. And finally, after completing all the steps testing is done.

5. **Offers:**

   For offers , first we have collected the requirements then analyse the requirements gathered. Then we design the offer page where coupon code is generated. After designing the page it is validated, where after every order the coupon code is generated. Then we performed the database connection. And finally, after completing all the steps testing is done.

6. **User Registration**:

   For user registration, first we have collected the requirements then analyse the requirements gathered. Then we design user registration page according to requirements. After designing the page it is validated, where user must register with correct details and match the specifications. Then we performed the database connection. And finally, after completing all the steps testing is done.

7. User Login:

For user login, first we have collected the requirements then analyse the requirements gathered. Then we design user login page according to requirements. After designing the page it is validated, where user must login with correct details and match the specifications. Then we performed the database connection. And finally, after completing all the steps testing is done.

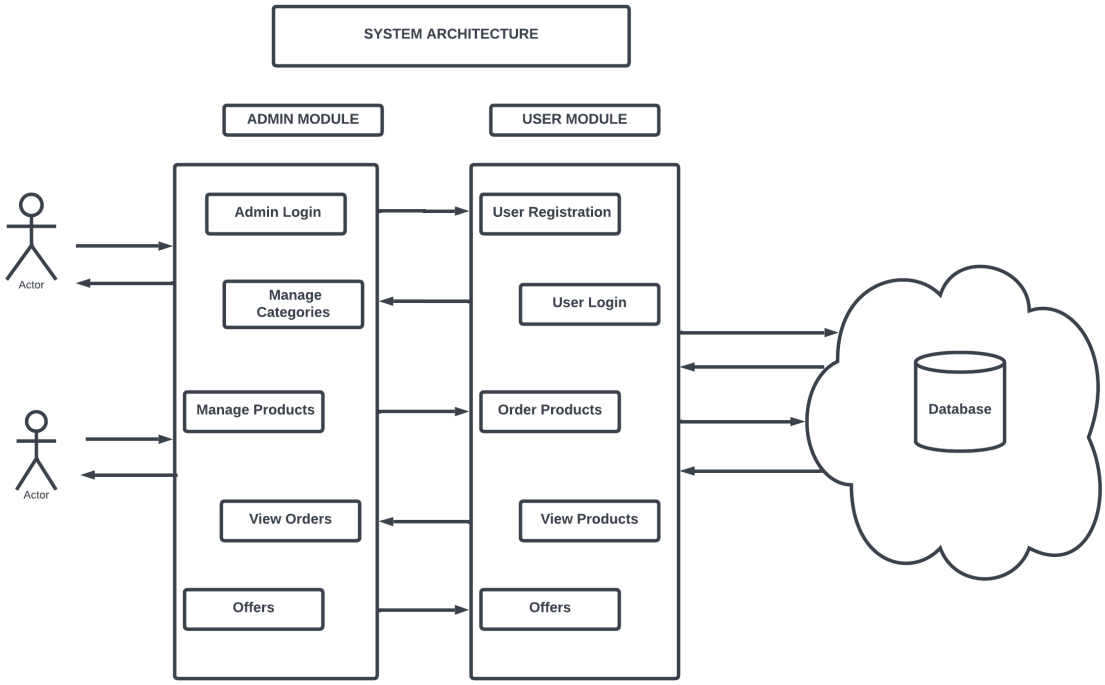
8. View Products:

To view products, first we have collected the requirements then analyse the requirements gathered. Then we design product page according to requirements. After designing the page it is validated, where user can view the products given by admin with correct product details. Then we performed the database connection. And finally, after completing all the steps testing is done.

9. Order Products:

To order product, first we have collected the requirements then analyse the requirements gathered. Then we design order page according to requirements. After designing the page it is validated, where user orders product and gets a coupon code. Then we performed the database connection. And finally, after completing all the steps testing is done.

❖ System Architecture



❖ Any other information needed to execute the Capstone project.

- **XAMPP Server**

  XAMPP is a cross-platform and open source tool, which makes it an ideal choice of web developers. It is the acronym of X-cross platform, Apache, MySQL, PHP, and Perl.

Steps to run program using XAMPP Server

1. Open XAMPP Server control panel.
2. Start Apache and MySQL service.
3. Minimize the windows.
4. Open browser.
5. In URL address bar type root folder name with local host (local host/cbktest).

To live the program on cloud server

1. Purchase web domain name and cloud hosting server from any software company.

After purchase using username and password login to the cloud server and configure the project

Signature of the Cohort owner