

# **ECOMMERCE SYSTEM**

Final Year Project Proposal

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## **Abstract**

The purpose of this project is to help buyers to find the product of their interest. There will be a lot of product which will be added by the admin in the system. Any user will be able to buy that product, but first user needs to get register with the system. When a user gets registered, they will be able to buy the product by paying this Online e-commerce system.

## **Project Details**

Every business starts from a small scale and gradually gets extended. This project will help the small-scale business to grow into a bigger one. This will help to grow a smaller business where an admin will be able to sell products to a market through the online system. Users/visitors of the site will be able to make an order for the product in which they are interested. This website will provide a communication system between the Seller and buyer of the product. The administrator will be the sole seller of the products and there will be many users who will be able to buy any product from the system.

An E-commerce website is a website where users will be able to purchase the products of their choice. They will be able to see different categories of products where they can also search for the desired product and the admin of the website will add new products in the system and will able to save the product online through this system. Admin will be able to customize the overall website and the contents of the website. Users will be able to register with the system to purchase any items.

This system will be able to have different functionalities like an e-commerce website. Ecommerce websites can help to generate the sale of the products and the profit from their product.

## **Functional Requirements of the system:**

- I. There will be two kinds of users one will be the admin of the system and the others will be users.

- II. Admin of the system will be able to manage the overall functionalities of the system.
- III. Admin will be able to approve or block any user who will be registered with the system.
- IV. Admin will be able to add new products to the system.
- V. Admin will be able to edit/remove/update any product from the system.
- VI. Admin will be able to generate different reports.
- VII. Admin will be able to view feedback given by the users.
- VIII. The user of the system will be able to get registered with the system.
- IX. The user will be able to manage his profile like password changes, information updates, etc.
- X. Users will be able to view the products and will also search for the desired one.
- XI. Users will be able to purchase any item from the available one.
- XII. Users will be able to view the details of the products and users can give feedback for the specific product that they buy.
- XIII. Users will be able to pay the price of the system through online methods.
- XIV. The user will be able to send messages to the admin.

## **Executive Summary**

This project will help the buyer to find the product of their interest. There will be a lot of product which will be added by the admin in the system. Any user will be able to buy that product, but first user needs to get register with the system. When a user gets registered, they will be able to buy the product by paying Online or through the online system.

## **Technical overview of the project**

This project will provide a good interface to interact with the system. The design of the project will be developed using the latest technologies which will provide a fast-loading speed and mobile friendly interface. This will provide an easy way to find any kind of information which will be required by the users. There will be a product page where will be

able to see the top-selling products and the product that is related to the users. User will also be able to find a search option to find the product which is not showing in the list of products.

This website will be developed using PHP Core language which will be easier to manage for the admin and to make changes in the system. It will also provide an efficient way to interact with the components and database.

## **Background**

In this era of technology, there are many system or businesses which are already working through an online system. Every business needs a website to run the system online and all over the world. It gets easier to spread a business idea by doing marketing through online available resources, which can help the business Increase more profit/revenue. There are many online websites which are providing the product where users will be able to buy the required product through the online system. On the other hand, many websites are working as a third party only between buyers and sellers. This system allows the users to sell what they have by uploading the product to the websites where users will be able to see the products uploaded by the users and those who want to buy the product can pick the product and add it to the cart. Moreover, it allows the users to save the product in his/her wish list which gets saved, and later user can buy the product.

Before this project, in my previous web development class (BMCC) I have created different cookie / session-based shopping cart design and implementation where users were able to save/buy products using only cookies to store users information, which is temporary, so I wanted to create a website where users will be able to save products and also buy the products using a real database system that store their information. This is what inspired me to take on this project.

## **Objectives**

- I. Have an up and running frontend/backend design of the website which can interact with the database/ backend systems. With all products displayed and ready to view and interact with the users.
- II. To allows admins to add new products / generate reports/view all products available for sale and interact with its users and products.

## **Obstacles & Risks**

Some of the new things I will be learning along this project is project management, during college we mostly spent time coding/ understanding how computers work, so my main challenge will be documentation work, also for backend design/frontend ill need to watch/ research more about the technologies such as PHP, and JavaScript and CSS to create a decent design for the frontend.

I will need to learn to work more independently and to communicate any issues with my supervisor, will also be learning new project management skills (project logs, etc.) adhering to deadlines and time management.

# Use Case Diagram

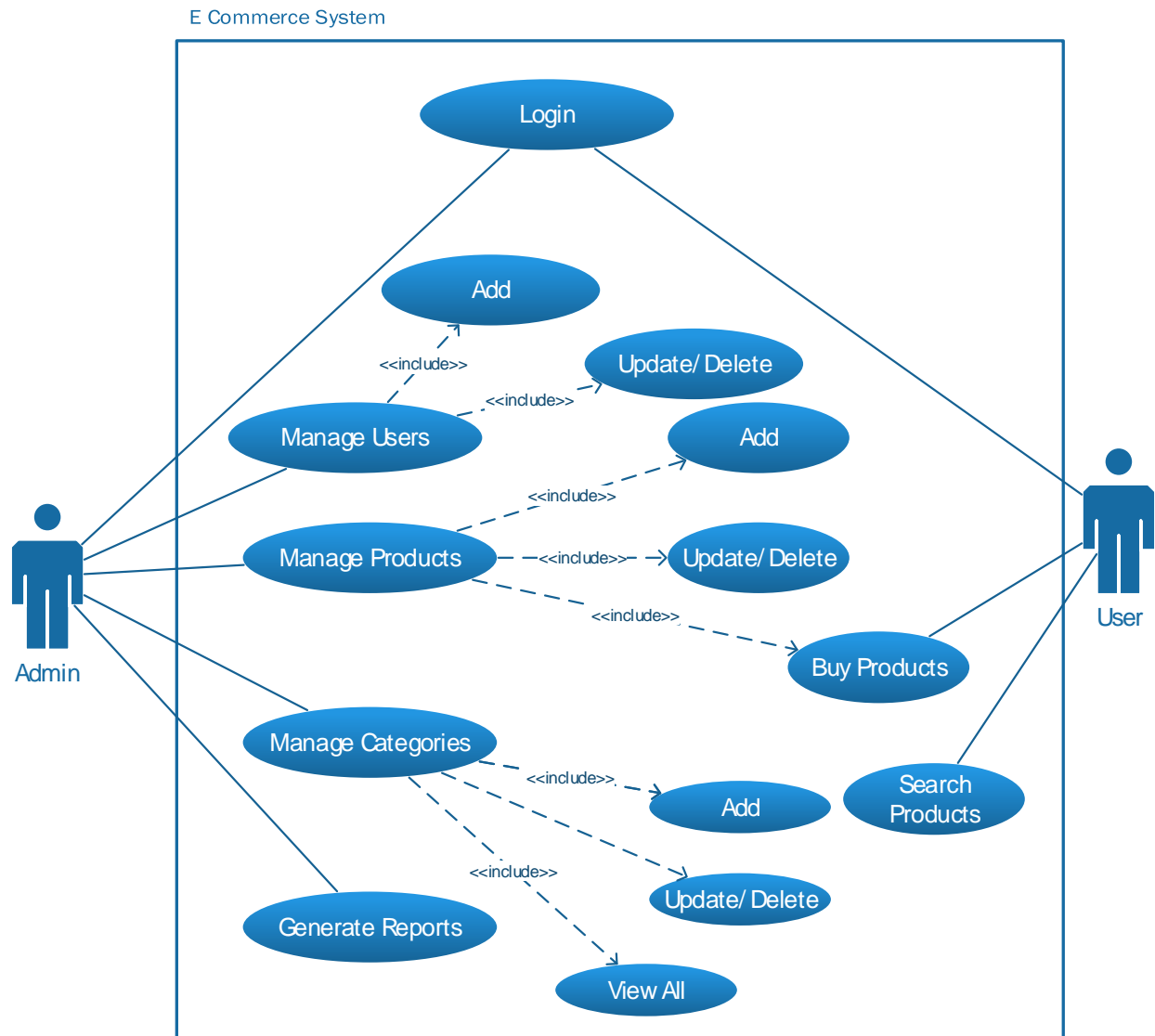
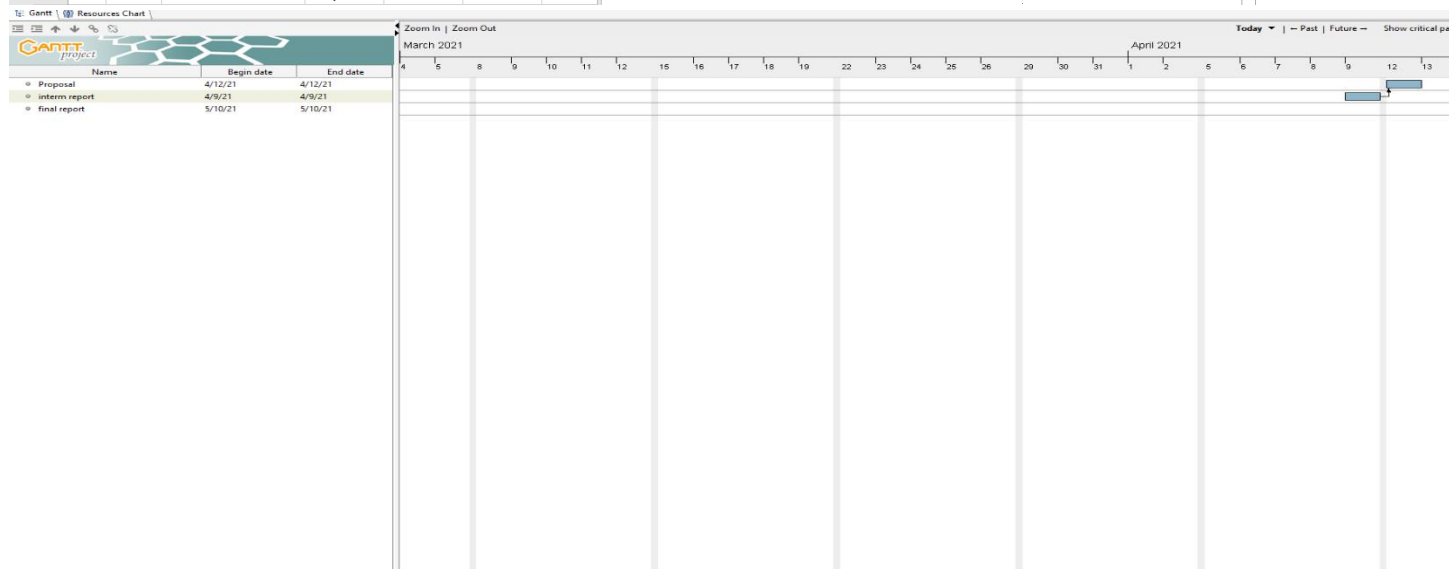
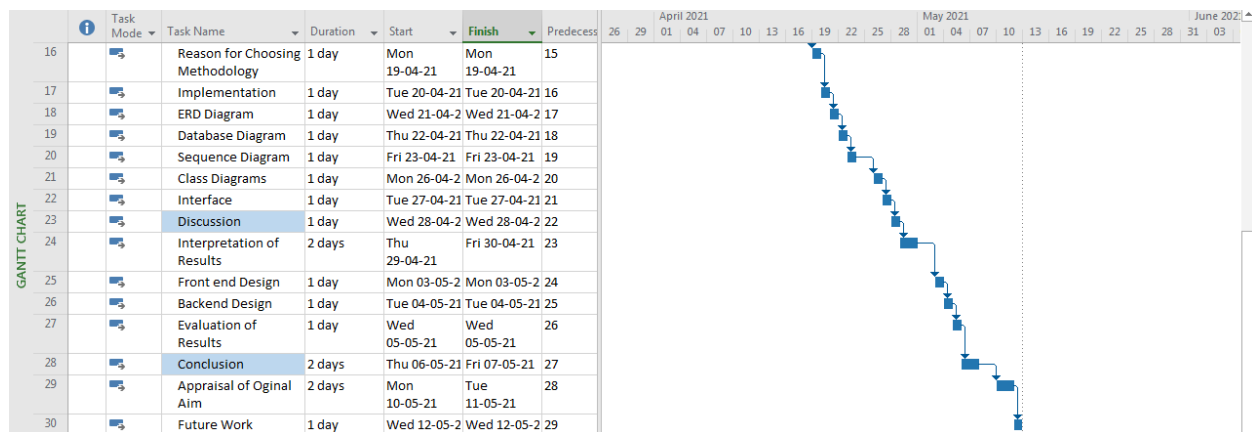
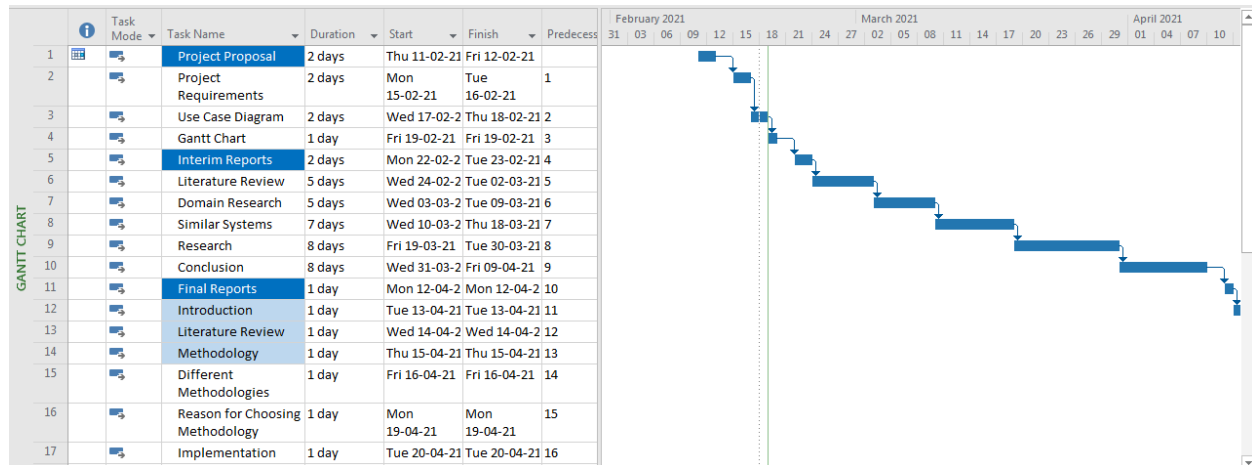


Figure 1: Use Case Diagram

## Gantt chart/management tool, and Dates are Subject to change)

Only the project proposal has been updated here in the chart with its corresponding date of completion others will have to be adjusted as time progresses.





## **Software and Hardware Technology Requirements**

There are two parts of the system first is the design and the other is the backend coding of the website. The design of the system will be developed using HTML, CSS, and Bootstrap. For animation JavaScript and jQuery Will be used. For the server-side coding of the website, PHP programming language will be used.

### **Hardware Requirements**

To develop this project, its required system is XAMPP Server and MySQL for the database. notepad++, VScode /or any other coding platform will work for the coding of the website.

### **Software Requirements**

This project will be developed in PHP so only XAMPP will be needed to install it and will also contain the Apache Server and MySQL for the database.

### **Milestones and reporting**

Project Management

For project management I will be keeping a log of all activities done for the project including any net research done/tutorial video watched. I will also be reporting some of the milestones completed about the project to my supervisor either/or every 2 weeks this way the supervisor will have some idea of where I stand regularly and make sure I'm not falling behind.

#### Tasks

Gathering specs, put together project proposal, weeks 1-2

#### **Building feature 1 - create Frontend, weeks ~ 3-7**

- **Research similar systems / watch tutorials**
- **Download necessary tools(platform for coding)**
- **Research different methodologies**
- Create home page.

- About page
- Product page
- Featured products page.

Test feature 1 with use cases, report to supervisor.

Make any changes necessary.

Interim Report, week 7

### **Building feature 2 -back end, weeks ~8-11**

- Research similar systems/ watch videos on it, take notes for design.
- Database design diagram
- Interface
- Backend design
- ERD diagram

Testing entire website with users/admin, weeks ~11-13

Prepare final report and submit, weeks ~14-15

### **Documentation & Source Code.**

By the end of the project ill have all source code for front end and backend available, including logs, diagrams, reports, designs etc.