"PROJECT TITLE"

A Project report submitted

In the partial fulfillment the award of degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING (2022-2023)

 \mathbf{BY}

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled "PROJECT TITLE" is a fulfillment of project work done by J. Sripriya (211801340013) for the award the degree of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, during the academic year 2022-2023.

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ACKNOWLEDGEMENT

It is with at most pleasure and excitement we submit our project partial fulfillment of the requirement for the award of Bachelor of Technology.

The project is a result to the cumulate efforts, support, guidance, encouragement and inspiration from many of those for whom we have to give our truthful honor and express gratitude through bringing out this project at the outset as per our knowledge.

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DECLARATION

I hereby declare that the project entitled "PROJECT TITLE" submitted to the fulfillment of award the degree of B.TECH (CSE) in CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ANDHRA PRADESH.

J. Sripriya 211801340013



Software Requirements Specification

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1. Introduction

1.1 Purpose

The purpose of this document is to capture, in natural products and E-mart offers everything from food to clothes to necessary products, and provides a very large variety of merchandise. E-mart has a website, where products can be bought or viewed online. E-Mart is the first Korean retailer to advance into China with the aim to become one of top leading global retailers.

1.2 Scope

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24*7 and a home delivery system which can make customers happy. If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flipkart or ebay. Since the application is available in the Smartphone it is easily accessible and always available.

1.3 Definitions, Acronyms and Abbreviations

Emart- E-commerce Marketing System
SRS-Software Requirement Specification
GUI-Graphical user interface
Stackholder-The person who will practice in system
Ex: Customer, Administrator, Visitor etc.

1.4 References

- 1. Shah, Avni M., James R. Bettman, Peter A. Ubel, Punam Anand Keller, and Julie A. Edell (2014), "Surcharges plus Unhealthy Labels Reduce Demand for Unhealthy Menu Items," *Journal of Marketing Research*, 51 (6), 773–89.
- 2. Finkelstein, Eric Andrew (2020), "NUSmart: An Experimental Online Grocery Store to Promote Healthier Shopping,
- 3. Bettman, James R., Mary Frances Luce, and John W. Payne (1998), "Constructive Consumer Choice Processes," *Journal of Consumer Research*, 25 (3), 187–217,
- 4. Cadario, Romain, and Pierre Chandon (2020), "Which Healthy Eating Nudges Work Best?
- 5. Nunes (2001), "Reducing Assortment: An Attribute-Based Approach," *Journal of Marketing*, 65 (3), 50–63.

1.5 Overview

We all evolved from living in a world with no Internet to living in a world that cannot be imagined without Internet. Yes, we exist in the era of digital platform. From our daily needs to our daily activities we are surrounded by online apps, which have now become an integral part of our lives.

2. Overall Description

2.1 Product Perspective

E-mart is meant to serve as a common platform where every day groceries can be delivered conveniently within few hours. Our goal is to develop a safe and hygienic groceries with minimum prices to everyone and we can easily order groceries and it will be delivered within hours in pandemic times.

2.1.1 System Interface

Xampp will be used as web server. The user inputs data via the web server using PHPforms. The actual program that will perform the operations is written in HTML, CSS, JAVA Script.

2.1.2 User Interface

This system used by the user to login into system. A user must login with his user name and password to the system after registration. If they are invalid, the user not allowed to enter the system. A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept a new user by unblocking him.

2.1.3 Hardware Interface

a) Server side:

Xampp will be used as web server. The user inputs data via the web server using PHP forms.

b) Client side:

Monitor screen – the software shall display information to the user via the monitor screen Mouse – the software shall interact with the movement of the mouse and the mouse buttons. The mouse shall activate areas for data input, command buttons and selectoptions from menus.

Keyboard – the software shall interact with the keystrokes of the keyboard. The keyboard will input data into the active area of the database.

2.1.4 Software Interface

a) Server side

An Apache web server will accept all requests from the client and forward it accordingly. A database will be hosted centrally using MySQL.

b) Client side

An OS which is capable of running a modern web browser which supports JavaScript and HTML5.

2.1.5 Communication Interfaces

The HTPP or HTTPS protocol(s) will be used to facilitate communication between the client and server.

2.1.6 Memory Constraints

Memory constraints will come into play when the size of MySQL grows to aconsiderable size.

2.1.7 Operations

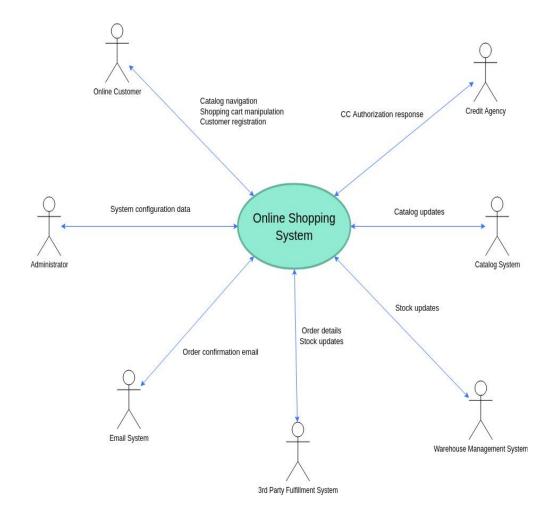
The product shall have operations to protect the database from being corrupted or accidentally altered during a system failure.

2.1.8 Site Adaption Requirements

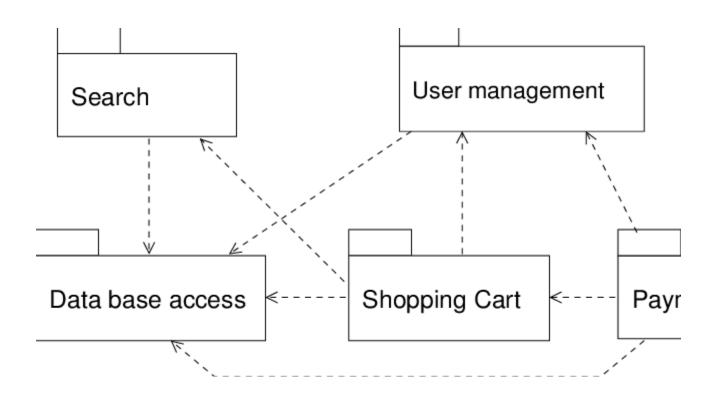
Not applicable

2.2 Product Functions

2.2.1 Context Diagram

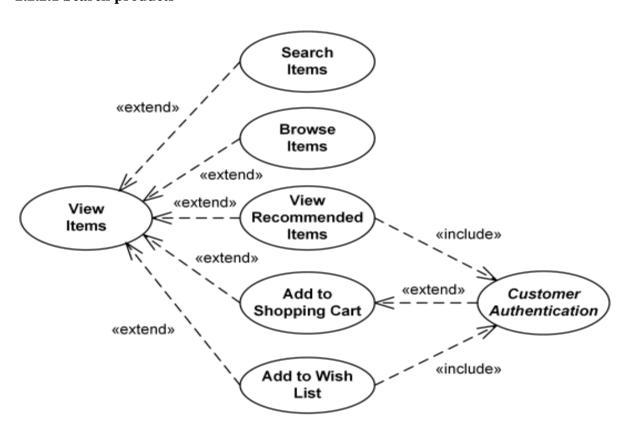


2.1.2 Layer Architecture

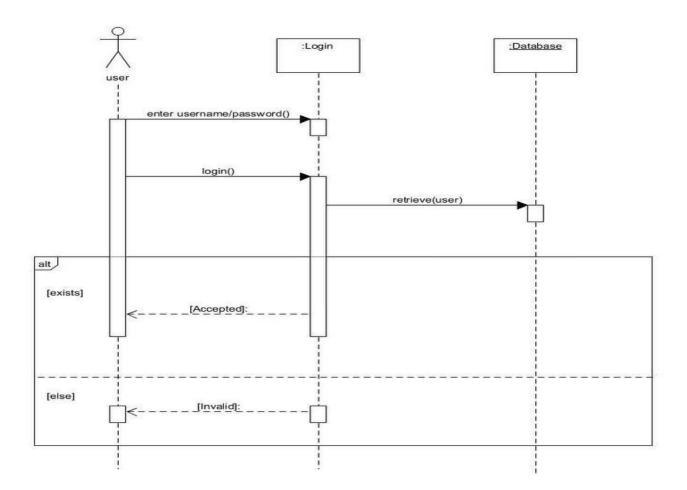


2.2.2 Use Case Diagram

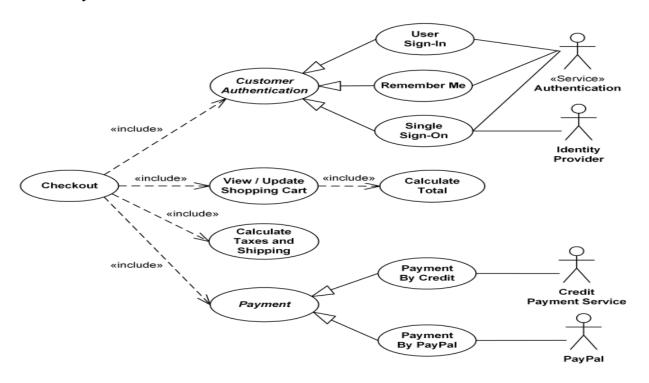
2.2.2.1 Search products



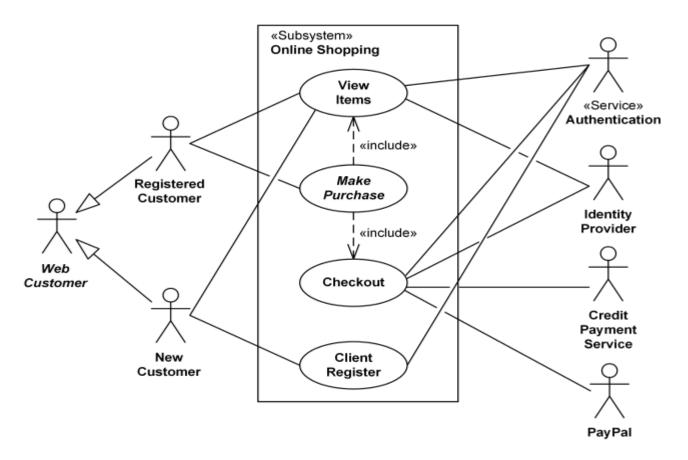
2.2.2.2 User login



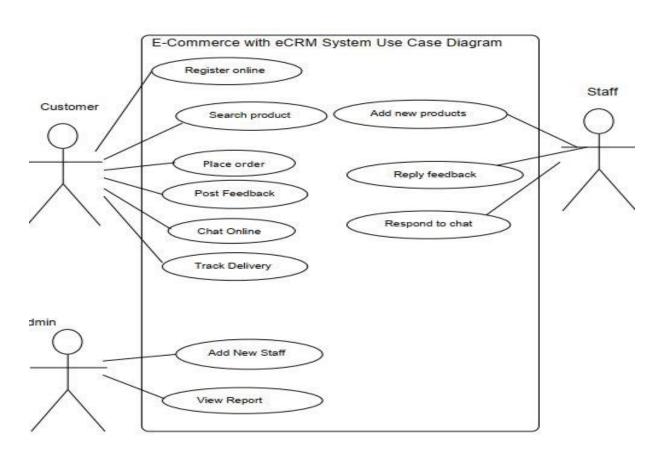
2.2.2.3 Payment mode



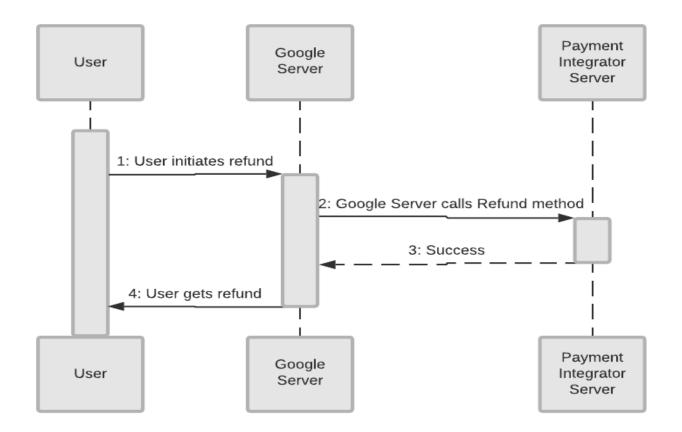
2.2.2.4 Add to cart



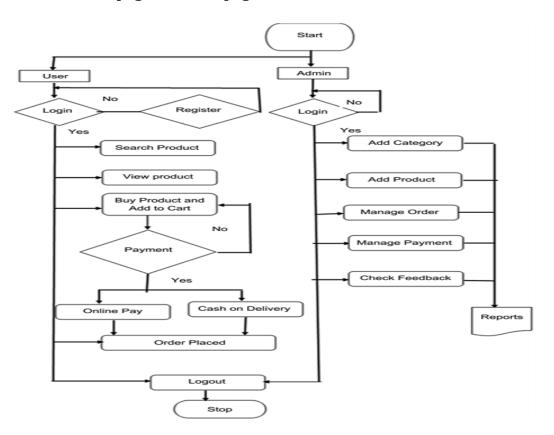
2.2.2.5 Users



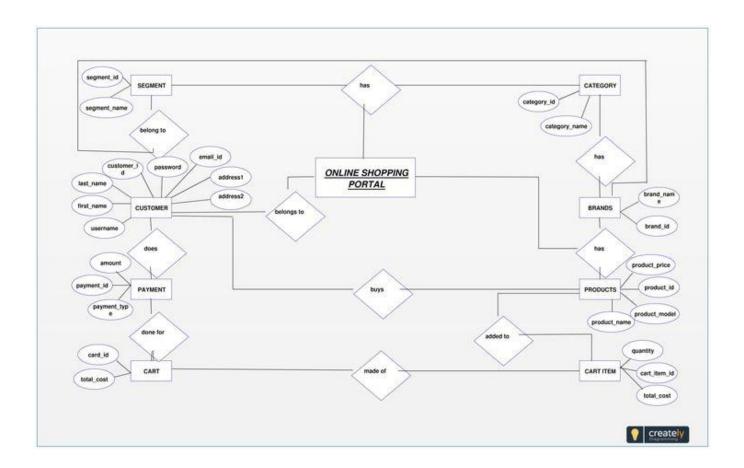
2.2.2.6 Refund methods



2.2.2.7 Admin page and User page



2.2.2.8 Overview of shopping portal



2.3 User Characteristics

2.3.1 Registration

A new user will have to register in the system by providing essential details in order to view the products in the system. The admin must accept a new user by unblocking him.

2.3.2 Login

A user must login with his user name and password to the system after registration.

2.3.3 View Products

User can view the list of products based on their names after successful login. A detailed description of a particular product with product name, product details, product image, price can be viewed by users.

2.3.4 Search Product

Users can search for a particular product in the list by name.

2.3.5 Add to Cart

The user can add the desired product into his cart by clicking add to cart option on the product. He can view his cart by clicking on the cart button. All products added by cart can be viewed in the cart. User can remove an item from the cart by clicking remove.

2.3.6 Submit Cart

After confirming the items in the cart the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.

2.4 Constraints

2.4.1 User Interface Constraints

Using this system is fairly simple and intuitive. A user familiar with basic browser navigation skills should be able to understand all functionality provided by the system.

2.4.2 Hardware Constraints

The system should work on most home desktop and laptop computers which support JavaScript and HTML5.

2.4.3 Software Constraints

The system will be intended to run on Firefox 4 and above, Google Chrome 10 and above and Internet Explorer 8 and above.

2.4.4 Data Management Constraints

System shall be able to interface with other components according to their specifications.

2.4.5 Operational Constraints

The system is limited by its operating server in terms of the maximum number of usersit can support at a given time.

2.4.6 Site Adaptation Constraints

The component will be adapted to the overarching system at the conclusion of the system creation.

2.4.7 Design Standards Compliance

The system shall be implemented in PHP.

2.5 Assumptions and Dependencies

The user can add the desired product into his cart by clicking add to cart option on the product. He can view his cart by clicking on the cart button. All products added by cart can be viewed in the cart. User can remove an item from the cart by clicking remove. After confirming the items in the cart the user can submit the cart by providing a delivery address. On successful submitting the cart will become empty.

3. Specific Requirements

3.1 External interface

3.1.1 Web Server

- Apache will be used as web server:
- The user inputs data via the web server using HTML forms
- The web server executes the PHP as a module and PHP script retrieves the postdata if available.
- The web server receives information back from the PHP script.
- The web server displays a HTML page as result to the end-user.

3.1.2 PHP Application

The actual program that will perform the operations is written in PHP. All data will bestored in a database.

3.1.3 MySQL Database

It's an open source SQL database to store all data which communicates with the application on the server.

3.2 Functional Requirements

3.2.1 User

Username and password will be provided after user registration is confirmed. Password should be hidden from others while typing it in the field. System must be able to verify and validate information. The system must encrypt the password of the customer to provide security. System must ensure that, only a registered customer can purchase items.

3.2.2 Admin

The system must identify the login of the admin. Admin account should be secured so that only owner of the shop can access that account.

3.2.3 Moderator

The system must identify the login of a moderator.

3.2.4 payment

In this system we are dealing the mode of payment by cash. We will extend this to online payment also in future.

3.2.5 Logout

After ordering or any other issues for customer then he can logout from the website.

3.2.6 Report Generation

After ordering for the product, the system will sent one copy of the bill to the customer's email-address and another one for the database.

3.3 Performance requirements

In order to maintain an acceptable speed at maximum number of uploads allowed them for a particular customer as any number of users can access to the system at any time. Also the connections to the servers will be based on the attributes of the user like location and server will be working 24X7 times.

3.4 Logical database requirements

All data will be saved in the database: user accounts and profiles, discussion data, messages etc. (except files which are stored on the disk.) The database allows concurrent access and will be kept consistent at all times, requiring a good database design.

3.5 Design constraints

- 1. The communication between the portal software and the database will be in SQL.
- 2. The portal layout will be produced with HTML/CSS.
- 3. The product will be written in PHP.
- 4. The output must be compatible with W3C XHTML 1.0
- 5. The source code must follow the coding conventions of PHP.
- 6. System administrators must have access to comprehensive documentation.

3.6 Software System Attribute

The software consists of the following elements:

- 1. The apache web server
- 2. The PHP application
- 3. The MySQL database
- 4. The database should remain consistent at all times in case of an error.

3.6.1 Reliability

The reliability of the overall program depends on the reliability of the separate components.

3.6.2 Availability

The system should be available at all times, meaning the user can access it using a web browser, at any time and at any time he use the browser. There is no restrictions for user to use a web browser. But for shopping or to deliver any product to home then the user should login to the website.

3.6.3 Security

- 1. Phone numbers and email-address will be saved encrypted in the database in order to ensure the user's privacy.
- 2. The user's IP will be logged.
- 3. The system will be protected against vulnerabilities such as SQL injection attacks.
- 4. It doesn't share your details with any third parties.
- 5. It keeps your personal information safely.

3.6.4 Maintainability

MySQL is used for maintaining the database and the Apache server takes care of the site. In case of a failure, a re-initialization of the program is recommended. You can also backup the database or data from the xampp.

3.6.5 Portability

The application is Linux-based and should be compatible with other systems. Apache, PHP and MySQL programs are practically independent of the OS-system which they communicate with. The end-user part is fully portable and any system using any web browser should be able to use the features of the application.