



BIHAR NATIONAL COLLEGE PATNA

Bachelor of Computer Application

BCA

Semester- VI

Batch (2021-2024)

Project Report

On

ON

(E-COMMERCE WEBSITE)

**Submitted in the partial fulfilment for the
Requirements of the degree of BCA**

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CERTIFICATE

This is to certify that the Project Work entitled “E-Commerce Website” has been accomplished by (Sumit Kumar Registration number – 202110120429299 Course – BCA Session – 2021-2024) under my guidance and supervision. This project is being submitted by him/her as the partial fulfilment of requirements for the award of BCA from BIHAR NATIONAL COLLEGE, PATNA.

This work has not been submitted by him/her anywhere else for the award of any degree or diploma. All sources of information and help have been duly mentioned and acknowledged.

Project Guide:

Dr . Rajeev Kumar

Senior Faculty

DECLARATION

I hereby declare that the Project Work entitled “**E-Commerce Website**”, has been carried out by me under the guidance of Dr Rajeev Kumar, at Bihar National College, Patna. The work is original and has not violated any of plagiarism norms.

I also declare that this Project has not been submitted to any University/ Institute for the award of any Degree/Diploma.

Place: Patna

SUMIT KUMAR

BCA-VI SEM

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My strength and inspiration are the blessings of my parents and my friends. I owe all my success and achievements to them.

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INTRODUCTION

The 'Online E-commerce Web application' Services department strives to provide solutions to develop and transfer easy and efficient way in the digital age and to help reduces the human pressure and time. To help support shop collections, the digital initiatives, and external partner institution digital projects, It provide services that include the digitization of analog objects, metadata management, digital preservation, and discovery and access of digital collections. "Shop Management System" is a web application written for all operating systems, designed to help users maintain and organize shop virtually. This software is easy to use for both beginners and advanced users. It features a familiar and well thoughtout, an attractive user interface, combined with strong searching Insertion and reporting capabilities. The report generation facility of shop system helps to get a good idea of which are the various items brought by the members, makes users possible to get the product easily.

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Objective

The project is about to handle all the information of the shop regarding members. Also it manages resources which were managed and handled by manpower previously. The main purpose of the project is to integrate distinct sections of the shop into consistent manner so that complex functions can be handled smoothly. The project aims at the following matters

- Automation of product manipulation.
 - Buying products.
 - To manage information of different types of items.
 - Consistently update information of all the item.
 - Managing security by providing authorized email & password.
- Manages database efficiently.

Scope

The administrator has all the rights to access the system. He is the one who has all rights to view the members and product details, modify those details. He can add various product based on the category. He can also set the available quantity of a product and its reasonable price. Also he can also set discount in various occasion. Admin can also view the details of a member. The admin have the power to generate the scratch card so that users can also use the recharge card to buy various product.

The user can log in to the system by using his specific email and password. User can view the products and order the products according to their own needs. He can view his profile and update

his details. He can update his personal information by logging into the system. User can find various product by using search option easily. update his details. He can update his personal information by logging into the system. User can find various product by using search option easily.

Features

This system is an automated Shop Management System. Through the software user can add members, add product, search product, update information, edit information, buy the product in quick time. The system has the following advantages:

- User friendly interface
- Fast access to database
- Search facility
- Look and Feel Environment
 - Evaluate the system concept for feasibility.
 - Perform economic and technical analysis.
 - Allocate functions to hardware, software people, database and other system elements.
 - Establish cost and schedule constraints.
 - Create a system definition that forms the foundation for all the subsequent engineering work

Feasibility Study:

Whatever we think need not be feasible .It is wise to think about the feasibility of any problem we undertake. Feasibility is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible. Here the feasibility study can be performed in two ways such as technical feasibility and Economical Feasibility.

Economic Feasibility

Development of this application is highly economically feasible .The organization needed not spend much m one for the development of the system already available. The only thing is to be done is making an environment for the development with an effective supervision. I f we are doing so , we can attain the maximum usability of the corresponding resources .Even after the development , the organization will not be in a condition to invest more in the organization .Therefore , the system is economically feasible.

Technical Feasibility

It is technically feasible, since there will not be much difficulty in getting required resources for the development and maintaining the system as well. All the resources needed for the development of the software as well as the maintenance.

Software Requirements:

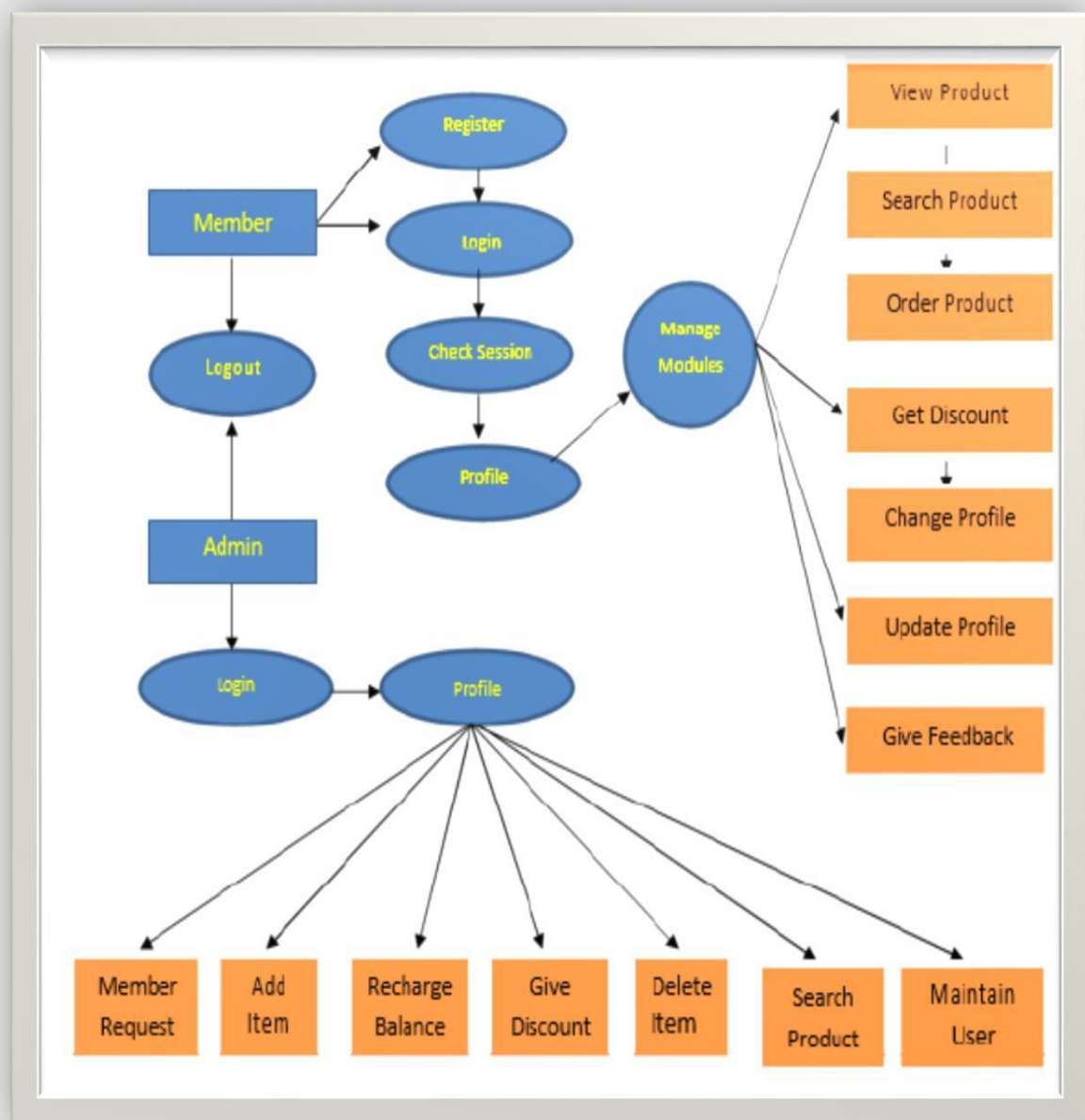
- User Interface Design: HTML, CSS
- Web Browser: Mozilla, Google Chrome, Microsoft Edge
- Operating system: Windows 11

Hardware Requirements:

- Dual-core64-bitprocessor.
- Upto4GBofmemory.
- Upto4GB of internal storage Android SDK:2GB
- WindowsSDK:4GB

SYSTEM DESIGN

The system is divided into some parts these are Register system, Login System, Search System, Buying System, Order Received System, Viewing System side with database represent the server using PHP , MYSQL and APACHE with XAMPP server. System diagram and system database diagram illustrated in figure



SOFTWARE TESTING

Why Software Testing is Needed

Tool-bars work properly? Are all menu function and pull down sub function properly listed? Is it possible to invoke each menu function using a logical assumptions that if all parts of the system are correct, the goal will be successfully achieved? In adequate testing or non-testing will leads to errors that may appear few months later. Testing represents an interesting anomaly for the software engineer. During earlier software engineering activities, the engineer attempts to build software from an abstract concept to a tangible product. Now comes testing. The engineer creates a series of test cases that are intended to “demolish” the software that has been built. In fact, testing is the one step in the software process that could be viewed (psychologically, at least) as destructive rather than constructive. Testing requires that the developer discard preconceived notions of the “correctness” of software just developed and overcome a conflict of interest that occurs when errors are uncovered.

If testing is conducted successfully (according to the objectives stated previously) it will uncover errors in the software. As a secondary benefit, testing demonstrates that software functions appear to be working according to specification, that behavioral and performance requirements appear to have been met. In addition, data collected as testing is conducted provide a good indication of software reliability and some indication of software quality as a whole. But testing cannot show the absence of errors and defects, it can show only that software errors and defects are present. It is important to keep this (rather gloomy) statement in mind as testing is being conducted.

Testing Strategy

There are types of testing that we implement. They are as follows:

While deciding on the focus of testing activities, study project priorities. For example, for an online system, pay more attention to response time. Spend more time on the features used frequently. Decide on the effort required for testing based on the usage of the system. If the system is to be used by a large number of users, evaluate the impact on users due to a system failure before deciding on the effort.

This create two problem

- ✓ Time delay between the cause and appearance of the problem.
- ✓ The effect of the system errors on files and records within the system.

The purpose of the system testing is to consider all the likely variations to which it will be suggested and push the systems to limits. The testing process focuses on the logical intervals of the software ensuring that all statements have been tested and on functional interval is conducting tests to uncover errors and ensure that defined input will produce actual results that agree with the required results. Program level testing, modules level testing integrated and carried out.

There are two major type of testing they are:

- ✓ White Box Testing.
- ✓ Black Box Testing.

White Box Testing

White box sometimes called “Glass box testing” is a test case design uses the control structure of the procedural design to drive test case. Using white box testing methods, the following tests were made on the system

- a) All independent paths within a module have been exercised once. In our system, ensuring that case was selected and executed checked all case structures. The bugs that were prevailing in some part of the code were fixed
- b) All logical decisions were checked for the truth and falsity of the values.

Black Box Testing

Black box testing focuses on the functional requirements of the software. This is black box testing enables the software engineering to derive a set of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white box testing rather it is complementary approach that is likely to uncover a different class of errors that white box methods like.

- ✓ Interface errors.
- ✓ Performance in data structure.
- ✓ Performance errors.
- ✓ Initializing and termination errors.

CONCLUSION

This project is only a humble venture to satisfy the needs in a shop. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the organization. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

This website provides a computerized version of shop manipulate system which will benefit the users as well as the visitor of the shop. It makes entire process online where users can search product, and buy various product. It also has a facility for common user by login into the system where user can login and can see status of ordered item as well request for items or give some suggestions. It provide the facility of admin's login where admins can add various item, review users activity and also give occasional discount and also add info about different events for the customer.

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