

# **Online Marketplace Platform**

## **A PROJECT REPORT**

*Submitted by*

**Bhatt Deval Tarunbhai**  
**200320107044**

*In fulfillment for the award of the degree*

*Of*

## **BACHELOR OF ENGINEERING**

*In*

**Computer Engineering**

**L.J. Institute of Engineering & Technology**



**Gujarat Technology University, Ahmedabad**

**April, 2024**



**L. J. Institute of Engineering & Technology**  
**Ahmedabad**

## **CERTIFICATE**

This is to certify that the project report submitted along with the project entitled **Online MarketPlace Platform (E-commerce application )** has been carried out by **Bhatt Deval Tarunbhai (200320107044)** under my guidance in partial fulfillment for the degree of Bachelor of Engineering in Computer science & engineering, 8th Semester of Gujarat Technological University, Ahmedabad during the academic year 2020-24.

**Prof. Stephy Patel**  
**Internal Guide**

**Prof. Shruti Raval**  
**Head of the Department**



Date: 3rd April 2024

**Project Certificate**

This is to confirm that **Mr. Deval Tarunbhai Bhatt** during his ongoing Industrial Training at Cybercom Creation from **16th January 2024, to 15th April 2024**, as a **PHP Developer**, is currently in the process of developing an **Online Marketplace Platform** under the supervision of **Mr. Chirag Nandaniya**. The project is progressing as per schedule and is expected to be successfully completed by the specified end date.

We wish him all the best for future endeavors.

Thanks & Regards,

*Kashyap*

Authorized Signatory,



**L.J. Institute Of Engineering & Technology  
Ahmedabad**

**DECLARATION**

We hereby declare that the Internship report submitted along with the Internship entitled **Online MarketPlace Platform (E-commerce application)** submitted in partial fulfilment for the degree of Bachelor of Engineering in **Computer Engineering** to Gujarat Technological University, Ahmedabad, is a bonofide record of original project work carried out by me / us at CyberCom Creation under the supervision of Chirag Nandaniya and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student

Deval Bhatt

Sign of Student

## ACKNOWLEDGEMENT

I wish to express our sincere gratitude to our external guide **Sir Chirag Nandaniya** for continuously guiding me at the company and answering all my doubts with patience. I would also like to thank you my Internal guide **Prof. Stephy Patel** for helping us through our internship by giving us the necessary suggestions and advices along with their valuable co-ordination in completing this internship.

I would also like to thank my parents, friends and all the members of the family for their precious support and encouragement which they had provided in completion of my work. In addition to that, I would also like to mention the company personals who gave me the permission to use and experience the valuable resources required to the internship. Thus, in conclusion to the above said, I once again thank the staff members of CyberCom Creation for their valuable support in completion of the project.

Also, our hearty gratitude to our Head of Department, **Prof. Shruti Raval** for giving us encouragement and technical support on the project.

Thank You,  
Deval Bhatt

## ABSTRACT

Online marketplace platforms have become integral to the global economy, facilitating the exchange of goods and services between buyers and sellers. This abstract highlights the key components and functionalities of an online marketplace platform, focusing on its significance in the realm of e-commerce. For a fresher such an opportunity can be considered as the best kick start of his career, as such trainings familiarize us with the procedure industry being practicing for robust project development since years. The embarking practical knowledge one gain from such practice makes them a better version of there self which helps them mark dignifying throughout their future endeavors. It was my honor to work in a reputed organization like Cybercom Creation. This has given me an opportunity to work in a truly professional environment where teamwork scores over individual efforts.

## List of Figures

Figure 1 Company Logo .....	9
Figure 2 Gantt Chart .....	17
Figure 3 System Design & Methodology .....	26
Figure 4 Flow Diagram.....	27
Figure 5 Sequence Diagram .....	28
Figure 6 Sequence Diagram .....	29
Figure 7-AGILE MODEL .....	31
Figure 8 Home Page .....	34
Figure 9 Header Content (Categories).....	34
Figure 10 All Products.....	35
Figure 11 Customer Login Page .....	35
Figure 12 Customer Registration Form .....	36
Figure 13 Customer Dashboard .....	36
Figure 14 Edit & Delete Customer Details.....	37
Figure 15 Add To Cart Page.....	37
Figure 16 My Cart Page.....	38
Figure 17 Checkout Page.....	38
Figure 18 Payment Details .....	39
Figure 19 Order Placed Page .....	39
Figure 20 My Order Page .....	40
Figure 21Admin Login Page .....	40
Figure 22 Products Listing .....	41
Figure 23 Database MyAdmin .....	41

## **List of Tables**

4.5 Technology.....	20
5.5 Hardware Requirements .....	24
5.5 Software Requirements.....	24



## Table of Contents

### Contents

<b>DECLARATION.....</b>	<b>4</b>
<b>ACKNOWLEDGEMENT.....</b>	<b>5</b>
<b>ABSTRACT .....</b>	<b>3</b>
<b>List of Figures.....</b>	<b>4</b>
<b>List of Tables .....</b>	<b>5</b>
<b>Table of Contents .....</b>	<b>6</b>
<b>CHAPTER 1: INTRODUCTION OF ORGANIZATION .....</b>	<b>9</b>
1.1 HISTORY: .....	9
1.2 DIFFERENT PRODUCT / SCOPE OF WORK .....	9
1.3 PORTFOLIO.....	11
<b>CHAPTER 2: OVERVIEW OF DEPARTMENT .....</b>	<b>14</b>
2.1 DETAILS OF DEPARTMENT .....	14
2.1.1 software development: .....	14
2.1.2 Android Developer:.....	15
<b>CHAPTER 3: OVERVIEW OF INTERNSHIP .....</b>	<b>16</b>
3.1 INTERSHIP SUMMARY .....	16
3.2 PURPOSE .....	16
3.3 OBJECTIVE .....	16
3.4 SCOPE 16	
3.4 GANTT CHART OF SCHEDULING OF INTERNSHIP .....	17
<b>CHAPTER 4: INTRODUCTION OF PROJECT .....</b>	<b>18</b>
4.1 Project Summary.....	18
4.2 PURPOSE.....	18
4.3 OBJECTIVES .....	19
4.4 SCOPE .....	19
4.5 TECHNOLOGY & TOOLS .....	21

4.5.1 TECHNOLOGY .....	21
JavaScript (JS).....	21
4.5.2 TOOLS .....	21
<b>CHAPTER 5:SYSTEM ANALYSIS.....</b>	<b>23</b>
5.1 STUDY OF CURRENT SYSTEM.....	23
5.2 REQUIREMENTS OF NEW SYSTEM.....	23
5.3 PROPOSED SYSTEM .....	24
5.4 SYSTEM FEASIBILITY .....	25
5.4.1 TECHNICAL .....	25
5.4.2 ECONOMIC .....	25
5.4.3 OPERATIONAL.....	25
5.5 HARDWARE – SOFTWARE REQUIREMENTS .....	25
<b>CHAPTER 6:SYSTEM DESIGN.....</b>	<b>26</b>
6.1 SYSTEM DESIGN & METHODOLGY .....	26
6.2 SYSTEM FLOW DIAGRAM .....	27
6.3 SEQUENCE DIAGRAM.....	28
6.4 USE CASE DIAGRAM.....	29
<b>CHAPTER 7: IMPLEMENTATION .....</b>	<b>30</b>
7.1 Research and Planning:.....	30
7.2 Design and Structure:.....	30
7.3 Development:.....	30
7.4 Document Management: .....	30
7.5 Searching and Finding: .....	30
7.6 Payment: .....	30
7.7 Communication:.....	30
7.8 Testing and Quality:.....	30
7.9 Launching and Marketing: .....	30
8.0 Feedback and Improvements: .....	30
<b>CHAPTER 8: PROCESS MODEL .....</b>	<b>31</b>
8.1 PROCESS MODEL .....	31
<b>CHAPTER 9: TESTING.....</b>	<b>32</b>
9.1 TESTING PLAN.....	32

9.2 TESTING STRATEGY .....	32
9.3 TESTING METHODS .....	33
<b>CHAPTER 10: APPLICATION SCREENSHOT .....</b>	<b>34</b>
<b>CHAPTER 11: CONCLUSION AND DISCUSSION .....</b>	<b>42</b>
11.1 CONCLUSION .....	42
11.2 DATES OF CONTINUOUS EVALUATION .....	42
11.3 SUMMARY .....	42
<b>REFERENCES.....</b>	<b>43</b>

## CHAPTER 1: INTRODUCTION OF ORGANIZATION

### 1.1 HISTORY:



*Figure 1 Company Logo*

**Address:** B-305, The First,  
B/H Keshavbaug,  
Vastrapur,  
Ahmedabad, Gujarat,  
India – 380015

**Mobile:+** 91-8758007655

**Mail :** [hr@cybercomcreation.com](mailto:hr@cybercomcreation.com)

**Industry:** IT Services and IT Consulting

**Founded:**2000

Cybercom was commenced by enterprising team of professionals with a strong focus on providing services and solutions for eCommerce businesses. Since selecting Magento as the eCommerce platform for growth, Cybercom has successfully deployed more than 700 eCommerce solutions for clients all over the world. Today Cybercom has grown its team of dedicated e-commerce specialists to more than 80 employees working in development center in Ahmedabad, India and have expanded our global reach through alliance partners in Singapore.

Our full range of services begins with strategy consultation and extends through experience design, web and mobile application development, integrations, data handling, internet marketing and ongoing support. Cybercom offers complete set of eCommerce services that will elevate your business to the next level. We are fully focused on e-commerce and the technology ecosystem that supports it. we deliver next generation tools and exceptional experiences that enable consumers at every digital touch point.

### 1.2 DIFFERENT PRODUCT / SCOPE OF WORK

Transform your vision digitally by technological innovations with optimized business processes.

Instead of just dumb development and delivering the solution, we ensure to be a part in every phase of your development needs with our maximum efficiency for your business, thus we don't deliver the solution but we hold you as partner in your growth story.

We make sure to understand you and your requirement completely by and by analyzing it to involve

development processes driven by Agile Methodology lead by our experienced technical leaders with wide range of industry experience.

### ➤ **CONSULTING:**

As a strategic consulting associate we evaluate your requirement by Analysis, Research and do Planning, suggest you on available technological innovations and the processes, structures to support and framing your requirement for optimization of your core business needs.

#### **User Experience and interface:**

- Strategic Foundation
- Information Architecture
- Visual Design
- Template Implementation

### ➤ **DEVELOPMENT**

Project development process From Custom development from scratch in any technology (ie. PHP/.NET) or using Open source platforms and making Mobile Applications (iOS / Android) or Cross platforms.

At Cybercom project development is the process and the facility of planning, organizing, coordinating and controlling the resources to accomplish successful development. The process takes from concept through construction.\

- Module Customization
- Extension setup
- Version Upgrade
- System Configuration

### ➤ **DATA**

As per our experience and during our research its very important to manage data by importing it to synchronization and its management thus client can take full advantage of data they collect. Because its all about the data.

- Import
- Synchronization
- Management

### ➤ **MANAGEMENT**

Team Cybercom helps you right from the initial stage which can be tailored to include every things from basic project coordination up to a full project management covering areas such as analysis to development, governance project manager and recommending tools and technology.

- Communication
- Documentation
- Reporting
- Deployment

## 1.3 PORTFOLIO

Our portfolio is a testament to our commitment to excellence and client satisfaction.

### ➤ 1STOP BEDROOMS

1stopbedrooms is dedicated to finding you the perfect furniture for your home.

- Migrated from ASP.Net to Magento
- Responsive UI, Multi-Currency / Language
- Integration with boostmyshop ERP
- Sagepay Payment gateway, Royal mail shipping
- Varnish cache to boost website speed
- ContentPlus blog channel
- Constant contact Mailing list

### ➤ FUSHI

Fushi offers health and wellbeing products with an amazing service with exceptional quality & value making Fushi a leading UK brand.

- Migrated from ASP.Net to Magento
- Responsive UI, Multi-Currency / Language
- Integration with boostmyshop ERP
- Sagepay Payment gateway, Royal mail shipping
- Varnish cache to boost website speed
- ContentPlus blog channel
- Constant contact Mailing list

### ➤ PAVILION BROADWAY

Pavilion Broadway excel at providing furniture and accessories to compliment interior decor scheme, as well as serving many practical purposes around the home. Providing interior design experts at every step of the way to help make the most out of home interior.

- Magento website development
- Expoded navigation menu
- BrightPearl inventory and product management
- Nextopia search
- Matrix table rates
- Worldpay Payment gateway

- Brand management
- Live chat

#### ➤ **FRAME MY NAME**

Frame My Name offers best quality card personalised christening invitations supplied with crisp white envelopes perfect if you are organising your child's christening, baptism or naming ceremony. Designs can even include photographs as well as special event dates.

- Magento website development
- Personlised invitation cards
- Worldpay, Royal mail
- WordPress blog
- Constant contact integration
- Livechat support

#### ➤ **QUANTUM COURAGE**

Established in 1990, Quantum Courage lies in expressing a positive inner message through each and every fashion products in order to set trends itself rather than following them.

- Magento responsive website development
- Multi language website
- Store locator Customization with google store locator API v2
- Gallery view (Google images concept)
- Payone Payment method, WebShop Matrix table rates
- Mobile API Integration with custom modules.
- Music library setup

#### ➤ **TEA BOX**

Teabox as a brand is a perfect blend of tea with impeccable flavor, irresistible essence and the ever soothing taste reaching all over the world. Equally passionate tea lovers introduced the wonderfully named and crafted outfit, Teabox.

- Magento website development
- Gift card personalization
- Catalog customization
- Multi website structure
- Worldpay, CCAvenue, Payu Bank Tranfer
- WebShop Matrix table rates
- WordPress

➤ **SHU BOX**

Shubox.co.uk is the 'go-to' online destination for women's footwear. Home to the latest trend-driven styles and seasonal shapes alongside an ever growing catalogue of must-have footwear brands, staying fashion-forward is at the forefront of our ethos.

- Magento website development
- Mobile theme
- Multi currency
- Channer advisor integration
- Sagepay, DHL shipment tracking
- WordPress blog
- Color swatch module
- RMA implementation



## CHAPTER 2: OVERVIEW OF DEPARTMENT

At Cybercom creation there are multidimensional departments, which appear to be:

### 2.1 DETAILS OF DEPARTMENT

#### 2.1.1 software development:

##### ➤ Front end:

##### **HTML (Hypertext Markup Language):**

HTML is the standard markup language used to create web pages.

It defines the structure and layout of a web document by using a variety of tags and attributes. HTML elements are the building blocks of web pages, such as headings, paragraphs, images, links, etc.

HTML5 is the latest version of HTML, which introduced new features like semantic elements, multimedia support, and improved form controls.

##### **CSS (Cascading Style Sheets):**

- CSS is used to style the presentation of HTML elements on a web page.
- It allows web developers to control the layout, colors, fonts, and other visual aspects of a website.
- CSS rules consist of selectors and declarations, where selectors target HTML elements and declarations define the style properties.
- CSS3 introduced advanced features like animations, transitions, gradients, and flexible box layouts.

##### **W3C (World Wide Web Consortium):**

- W3C is an international community that develops standards and guidelines for the World Wide Web.
- It ensures the interoperability and long-term growth of the Web by promoting standards like HTML, CSS, XML, and many others.
- W3C also provides tools and resources for web developers to validate their code and ensure compliance with web standards.

##### **JavaScript:**

- JavaScript is a programming language commonly used for front-end web development.
- It enables interactivity and dynamic behavior on web pages, such as form validation, DOM manipulation, and event handling.
- JavaScript frameworks and libraries like jQuery, React.js, and AngularJS simplify the development process by providing pre-built components and utilities.

##### **jQuery:**

- jQuery is a fast, small, and feature-rich JavaScript library.
- It simplifies tasks like DOM manipulation, event handling, AJAX requests, and animation effects.
- jQuery allows developers to write less code and achieve more functionality compared to plain JavaScript.

#### **AJAX (Asynchronous JavaScript and XML):**

- AJAX is a technique used to send and receive data from a web server asynchronously without reloading the entire page.
- It allows for dynamic updates and interactive features on web applications, providing a smoother user experience.
- AJAX uses a combination of JavaScript, XML (or JSON), and server-side technologies like PHP or ASP.NET to exchange data.

### ➤ **Back end:**

Backend development refers to the server-side programming that powers the functionality of a website or web application.

Technologies commonly used for backend development include:

**.NET Framework:** A software framework developed by Microsoft for building web and desktop applications.

**PHP:** A server-side scripting language used for web development, particularly for creating dynamic web pages and applications.

**Java:** A versatile programming language commonly used for web development, enterprise applications, and Android app development.

**Node.js:** A runtime environment that allows developers to run JavaScript code on the server-side, enabling full-stack JavaScript development.

#### **2.1.2 Android Developer:**

Android development involves creating mobile applications specifically for devices running the Android operating system.

Android apps are typically developed using the Java or Kotlin programming languages, along with the Android SDK (Software Development Kit) provided by Google.

Android Studio is the official IDE (Integrated Development Environment) for Android development, offering tools for designing, coding, debugging, and testing Android apps.

## **CHAPTER 3: OVERVIEW OF INTERNSHIP**

### **3.1 INTERNSHIP SUMMARY**

This internship was just another level of learning and growing myself in professional environment, from this internship I got to learn many technical skills as well as life skills.

I am sure that this learning will definitely be with me throughout my entire career. The thought of overall development for interns which our company has inculcated was surely a deep thought for our bright career. In this competitive time one needs to be an extraordinary in every field even if it might be the backend or front end. This touch of developing us extraordinarily was seen in our training. As this was the base to design our internship thoroughly.

This makes me capable enough to understand the working of different frameworks and technology which includes frontend technology such as JavaScript, HTML, CSS and Bootstrap. Also backend technology such as PHP and SQL.

### **3.2 PURPOSE**

The main purpose of this internship is overall development of an individual for their future endeavours. Due to this internship, I was able to gain confidence in technical as well as soft skills.

It changed my thought process and provided a smooth transition from a fresh graduate to a working professional. Learning and gaining many ideologies was the best part of an internship.

### **3.3 OBJECTIVE**

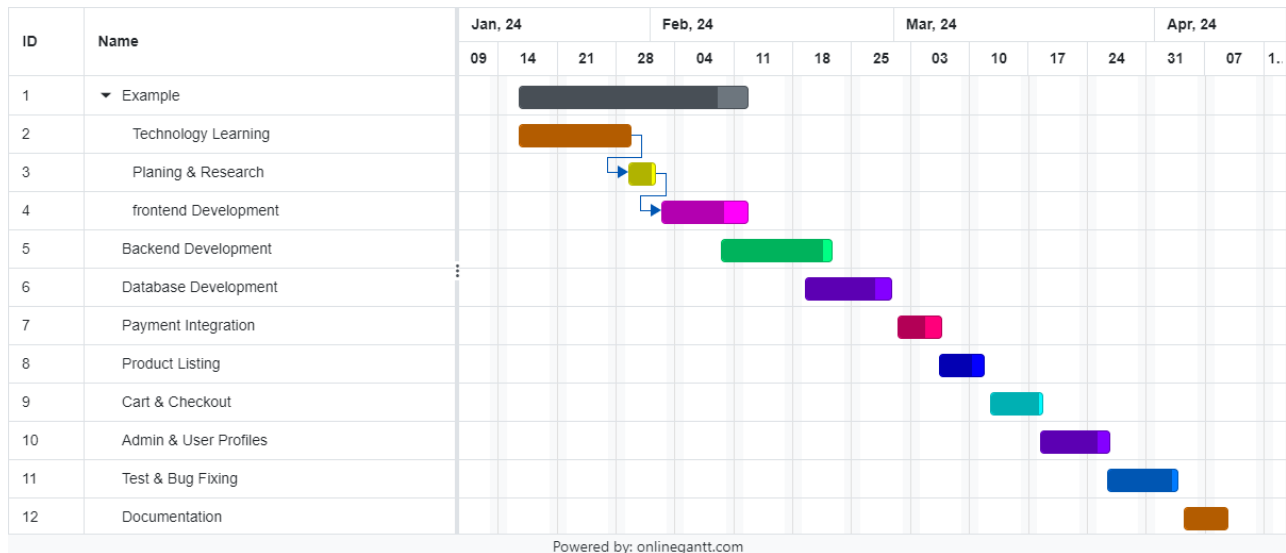
The internship program was designed to make students understand the concepts and process of development procedure followed in industries for better outcome of the clients requirements. Making students understand the procedure from scratch concepts to advanced concepts with maximum clarification of procedure.

### **3.4 SCOPE**

Internship experience plays a vital role for every student to implement their theoretical knowledge and get practical knowledge from any organization. A student can implement this

internship experience in his future work. An Internship Provides Real Life Experience and Exposure of professional work it gives Opportunity to Learn More about Yourself.

### 3.4 GANTT CHART OF SCHEDULING OF INTERNSHIP



**Figure 2 Gantt Chart**

## CHAPTER 4: INTRODUCTION OF PROJECT

### Title : Online Marketplace Platform

#### 4.1 Project Summary

The "Online Marketplace Platform," is a comprehensive e-commerce application developed using PHP, MySQLi, JavaScript, and Ajax technologies.

The project focuses on fundamental PHP/MySQL/JavaScript programming, MVC pattern implementation, and advanced web application development. Key features include a well-defined file structure adhering to MVC principles, compatibility with latest technologies, and emphasis on data security and validation.

The project aims to equip participants with skills in PHP Core/Object-Oriented Programming, MySQLi data structure normalization, and JavaScript/Ajax usage. By developing nine backend admin panel sections, participants gain hands-on experience in managing customers, catalogs, sales, and reports.

#### 4.2 PURPOSE

**Facilitate Online Transactions:** The primary purpose of the Online Marketplace Platform is to provide a digital platform where buyers and sellers can connect and conduct transactions. By creating a user-friendly interface and seamless checkout process, the platform aims to streamline the buying and selling experience for users.

**Enhance User Experience:** The project aims to prioritize user experience by implementing features such as product catalog browsing, advanced search capabilities, personalized recommendations, and secure payment options. By focusing on usability and accessibility, the platform aims to attract and retain users.

**Support Business Growth:** For sellers, the Online Marketplace Platform offers a platform to showcase their products to a wider audience and expand their customer base. By providing tools for inventory management, order processing, and sales analytics, the platform aims to support the growth and success of businesses operating within the marketplace.

**Promote Safety and Security:** Security is a paramount concern in online transactions. The project emphasizes implementing measures to protect user data, secure payment transactions, and prevent fraudulent activities. By prioritizing safety and security, the platform aims to build trust and confidence among users.

**Foster Community Engagement:** Beyond facilitating transactions, the Online Marketplace Platform aims to foster community engagement by providing forums, reviews, and ratings where users can

interact, share experiences, and provide feedback. By building a sense of community, the platform aims to create a loyal user base and encourage repeat business.

**Enable Scalability and Flexibility:** The project is designed to be scalable and flexible, allowing for future expansion and customization. By adhering to best practices in web development, utilizing modular design principles, and implementing a well-defined file and folder structure, the platform aims to accommodate growth and adapt to changing business needs over time.

the purpose of the Online Marketplace Platform project is to create a comprehensive and user-centric e-commerce platform that facilitates online transactions, enhances user experience, supports business growth, promotes safety and security, fosters community engagement, and enables scalability and flexibility for future development.

### 4.3 OBJECTIVES

**Streamlined Transactions:** The platform aims to simplify the process of online transactions, providing users with an intuitive interface for seamless buying and selling experiences.

**Market Expansion:** By providing a digital marketplace, the platform seeks to broaden the market reach for sellers, enabling them to showcase their products to a larger audience beyond traditional geographic boundaries.

**Enhanced User Experience:** With features like advanced search functionality, personalized recommendations, and secure payment options, the platform aims to enhance user satisfaction and engagement.

**Business Growth Support:** The platform provides sellers with essential tools for managing their online presence, including inventory management, order tracking, and sales analytics, to facilitate business growth and optimization.

**Security and Trust:** Ensuring the security of user data and transactions is paramount. The platform implements robust security measures and fraud detection mechanisms to build trust and confidence among users.

**Community Engagement:** By fostering a sense of community through user reviews, ratings, and forums, the platform encourages interaction and collaboration among buyers and sellers.

**Flexibility and Scalability:** Designed to adapt to evolving needs and accommodate growth, the platform offers flexibility and scalability for future expansion and development.

- Facilitate smooth and efficient online buying and selling.
- Expand market reach for sellers and provide a wide array of products for buyers.
- Enhance user experience through intuitive interfaces and personalized features.
- Support business growth with tools for inventory management and analytics.
- Ensure security and trust through robust security measures.
- Foster community engagement through user reviews and forums.
- Provide flexibility and scalability for future expansion and development.

### 4.4 SCOPE

The objective of the Online Marketplace Platform is to provide a seamless and efficient platform for both administrators and users to engage in online buying and selling activities. Here's a breakdown of the key functionalities for each role:

- **Admin Functions:**

**Authentication:**

Admins can log in securely to access the admin dashboard.

**Product Management:**

Add, update, and delete products to maintain an up-to-date inventory.  
Categorize products for easy navigation and organization.

**Banner Management:**

Add banners to promote special offers or featured products.

**Payment and Shipping Method Management:**

Add and manage payment methods and shipping options to offer flexibility to users.

**Order Management:**

Change order status (e.g., place order, approve, reject, cancel).  
View detailed order information and manage orders efficiently.

- **User Functions:**

**Authentication:**

Users can log in securely or sign up for a new account.

**Product Interaction:**

Search for products based on various criteria.  
Add products to the cart for purchase.  
Delete products from the cart if needed.  
Adjust quantity of products in the cart before checkout.

**Order Placement and Tracking:**

Place orders seamlessly and securely.  
Track order status to stay updated on the delivery process.  
Cancel orders if necessary within a specified timeframe.

**Order History:**

View past order history to track previous purchases and reorder items if needed.

## 4.5 TECHNOLOGY & TOOLS

### 4.5.1 TECHNOLOGY

<b>PHP (Hypertext Preprocessor)</b>	PHP is a server-side scripting language used for web development. It is primarily used to create dynamic web pages and interact with databases.
<b>jQuery</b>	jQuery is a fast, small, and feature-rich JavaScript library. It simplifies various tasks like HTML document traversal and manipulation, event handling, and animation, making it easier to write JavaScript code.
<b>Bootstrap</b>	Bootstrap is a popular front-end framework for building responsive and mobile-first websites and web applications. It provides a set of pre-designed CSS and JavaScript components that can be easily customized and integrated into projects.
<b>CSS (Cascading Style Sheets)</b>	CSS is a style sheet language used for describing the presentation of a document written in HTML. It is used to define the layout, colors, fonts, and other visual aspects of web pages.
<b>JavaScript (JS)</b>	JavaScript is a high-level programming language used to add interactivity and dynamic behavior to web pages. It is commonly used for tasks such as form validation, DOM manipulation, and event handling.
<b>HTML (Hypertext Markup Language)</b>	HTML is the standard markup language used for creating web pages and web applications. It defines the structure and content of web pages using elements and attributes.
<b>SQL (Structured Query Language)</b>	SQL is a standard programming language used to manage and manipulate relational databases. It is used for tasks such as querying data, inserting, updating, and deleting records, and creating and modifying database schemas.

### 4.5.2 TOOLS



**Git:**

Git is a distributed version control system used for tracking changes in source code during software development. It allows multiple developers to collaborate on projects efficiently and manage changes to the codebase over time.

**phpMyAdmin:**

phpMyAdmin is a free and open-source administration tool for managing MySQL databases. It provides a graphical user interface to perform database management tasks such as creating, deleting, and modifying databases and tables.

**Visual Studio Code (VSCode):**

Visual Studio Code is a lightweight, extensible, and cross-platform source code editor developed by Microsoft. It supports a wide range of programming languages and features built-in support for debugging, syntax highlighting, code completion, and version control integration. VSCode is highly customizable through its extensive library of extensions, making it a popular choice among developers for various software development tasks.

## CHAPTER 5:SYSTEM ANALYSIS

### 5.1 STUDY OF CURRENT SYSTEM

Currently use a manual system for the management and maintainance of critical information. Due to which sometimes editing is left or update is left. the way different people write also changes. not all details are backedup. So losing them can be a hassle. And sometimes calculations can go wrong. so there is an error in the bill. and losses can occur

- **Lack of immediate retrievals: -**  
The information is very difficult to retrieve and to find particular information.
- **Lack of immediate information storage: -**  
The information generated by various transactions takes time and efforts to be stored at right place.
- **Lack of prompt updating: -**  
Various changes to information like patient details or immunization details of child are difficult to make as paper work is involved.
- **Error (prone) manual calculation: -**  
Manual calculations are error prone and take a lot of time this may result in incorrect information.
- **Preparation of accurate and prompt reports: -**  
This becomes a difficult task as information is difficult to collect from various register

### 5.2 REQUIREMENTS OF NEW SYSTEM

#### **Efficient Data Management:**

The new system should provide efficient management of data, including storing, retrieving, and updating information.

#### **User Authentication and Authorization:**

The system should implement robust user authentication mechanisms to ensure that only authorized users can access sensitive data and functionalities.

#### **User-Friendly Interface:**

The system should have a user-friendly interface that is intuitive and easy to navigate, allowing users to perform tasks efficiently.

#### **Scalability:**

The system should be scalable to accommodate future growth and increasing data volumes without compromising performance.

#### **Integration Capabilities:**

The system should support integration with other systems and applications, allowing for

seamless data exchange and interoperability.

**Reporting and Analytics:**

The system should provide reporting and analytics capabilities to help users gain insights from data and make informed decisions.

**Audit Trails:**

The system should maintain audit trails to track user activities and changes made to data, ensuring accountability and compliance with regulations.

**Backup and Recovery:**

The system should have robust backup and recovery mechanisms to prevent data loss and ensure business continuity in case of system failures or disasters.

**Performance Optimization:**

The system should be optimized for performance, with fast response times and efficient resource utilization to enhance user experience.

## 5.3 PROPOSED SYSTEM

**Database Management System (DBMS):**

Utilize a reliable and scalable DBMS such as MySQL or PostgreSQL for efficient data management.

**User Authentication Module:**

Implement a secure authentication module using industry-standard protocols like OAuth or JWT to authenticate users and manage access controls.

**User Interface (UI):**

Design a user-friendly interface using modern web technologies like HTML5, CSS3, and JavaScript frameworks like React or Vue.js for enhanced usability.

**Scalable Architecture:**

Design the system using scalable architecture patterns such as microservices or cloud-native architectures to support future scalability requirements.

**Security Measures:**

Implement security measures such as encryption, role-based access control (RBAC), and regular security audits to protect against security threats.

**Reporting and Analytics Module:**

Integrate reporting and analytics tools such as Tableau or Power BI to provide users with actionable insights from data.

**Audit Trail Logging:**

Implement logging mechanisms to maintain audit trails and record user activities and system events for compliance and auditing purposes.

**Backup and Recovery Mechanisms:**

Set up automated backup procedures and implement disaster recovery strategies to ensure data integrity and business continuity.

**Performance Optimization Strategies:**

Employ performance optimization techniques such as caching, query optimization, and load balancing to improve system responsiveness and efficiency.

**5.4 SYSTEM FEASIBILITY****5.4.1 TECHNICAL**

In our system we will use technology which is easily available. To access the system, internet connectivity is must require because it is web base application.

**5.4.2 ECONOMIC**

This system is economical feasible because we will use low cost technology and some open source technology.

**5.4.3 OPERATIONAL**

This system is easy to use and it is providing user-friendly interface so user can easily use this system. It is easily maintainable system.

**5.5 HARDWARE – SOFTWARE REQUIREMENTS****Hardware Requirements:-**

<b>Processor</b>	Pentium, Core i3, dual core or Higher
<b>RAM</b>	1GB or Higher
<b>Hard Disk</b>	5GB or More

*Table 1-HARDWARE REQUIREMENTS*

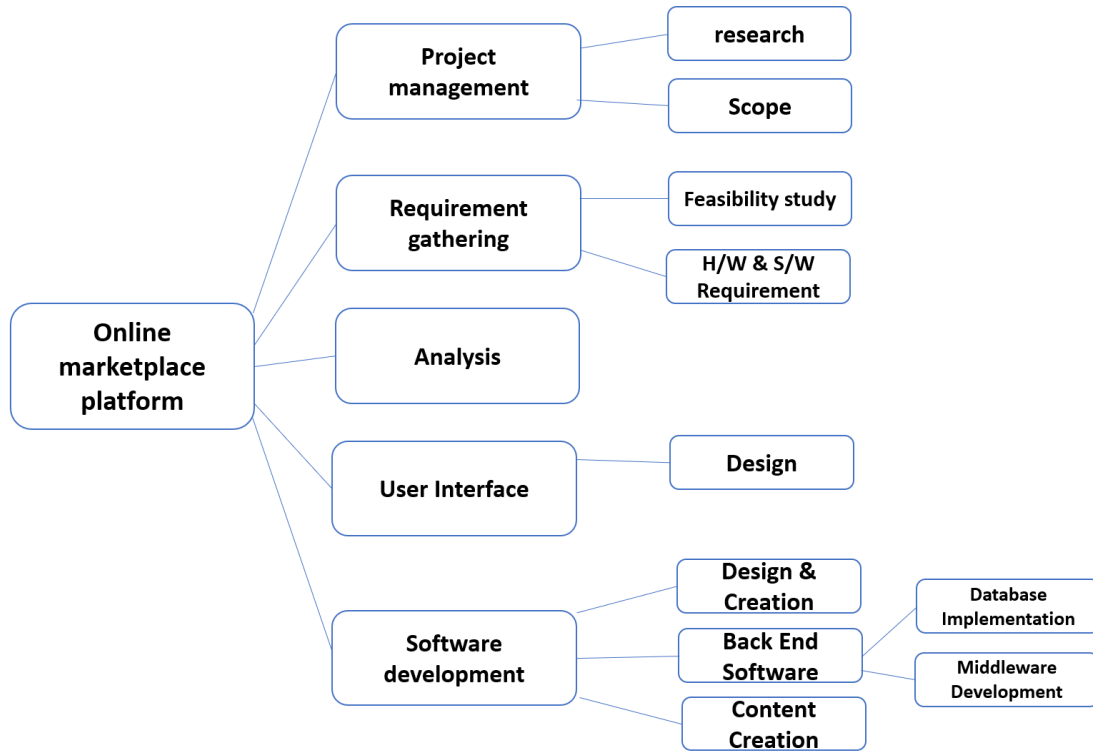
**Software Requirements:-**

<b>Operating System</b>	Windows OS : XP / 7 / 8 / 8.1 / 10 Or Mac OS Or Linux
<b>Browser</b>	Google Chrome, Mozilla,
<b>Frontend Language</b>	HTML, CSS, JavaScript, jQuery
<b>Backend Language</b>	PHP
<b>Database</b>	phpmyadmin
<b>Editor</b>	VS Code

*Table 2-SOFTWARE REQUIREMENTS*

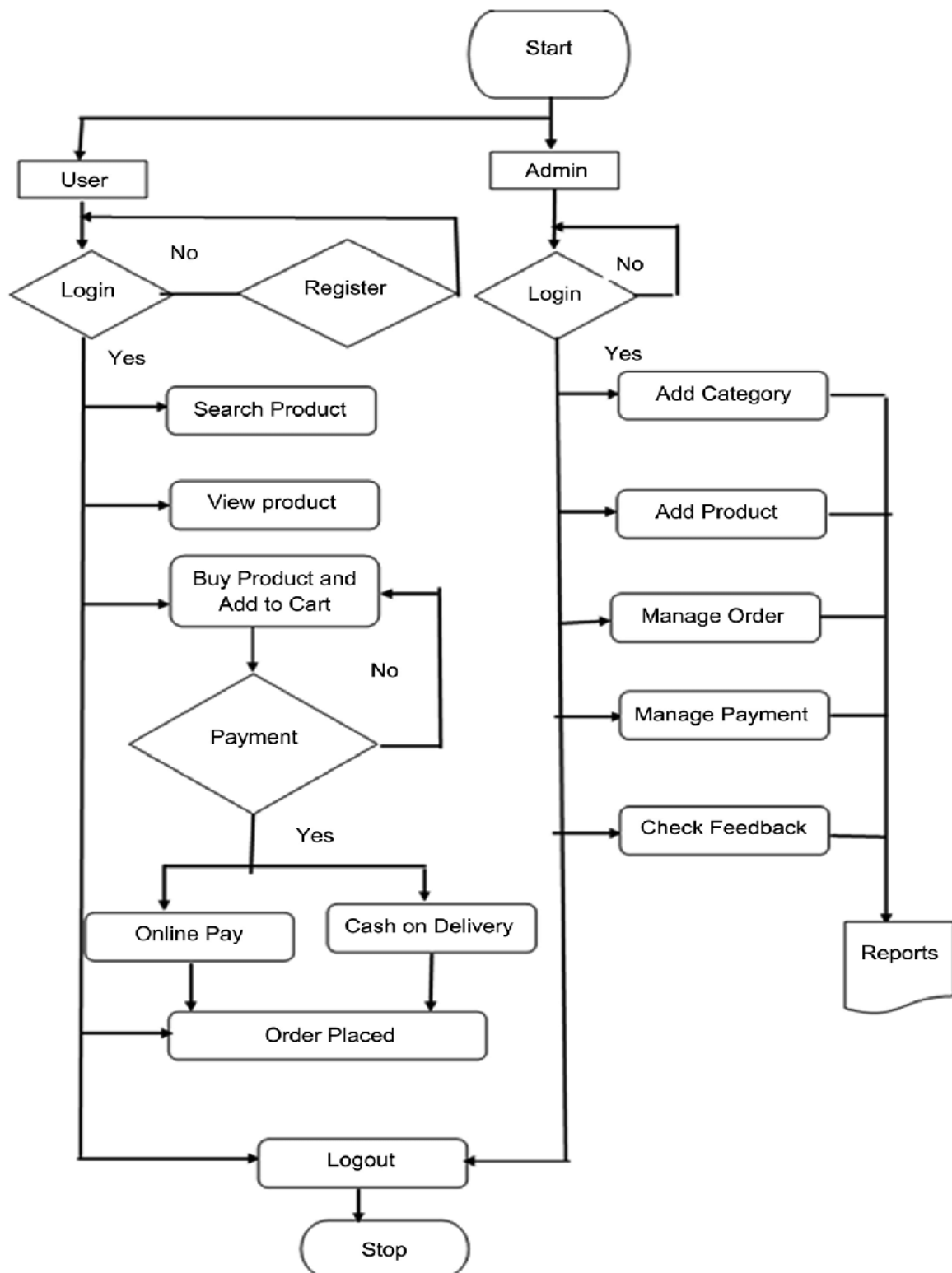
## CHAPTER 6:SYSTEM DESIGN

### 6.1 SYSTEM DESIGN & METHODOLGY



*Figure 3 System Design & Methodology*

## 6.2 SYSTEM FLOW DIAGRAM



*Figure 4 Flow Diagram*

6.3 SEQUENCE DIAGRAM

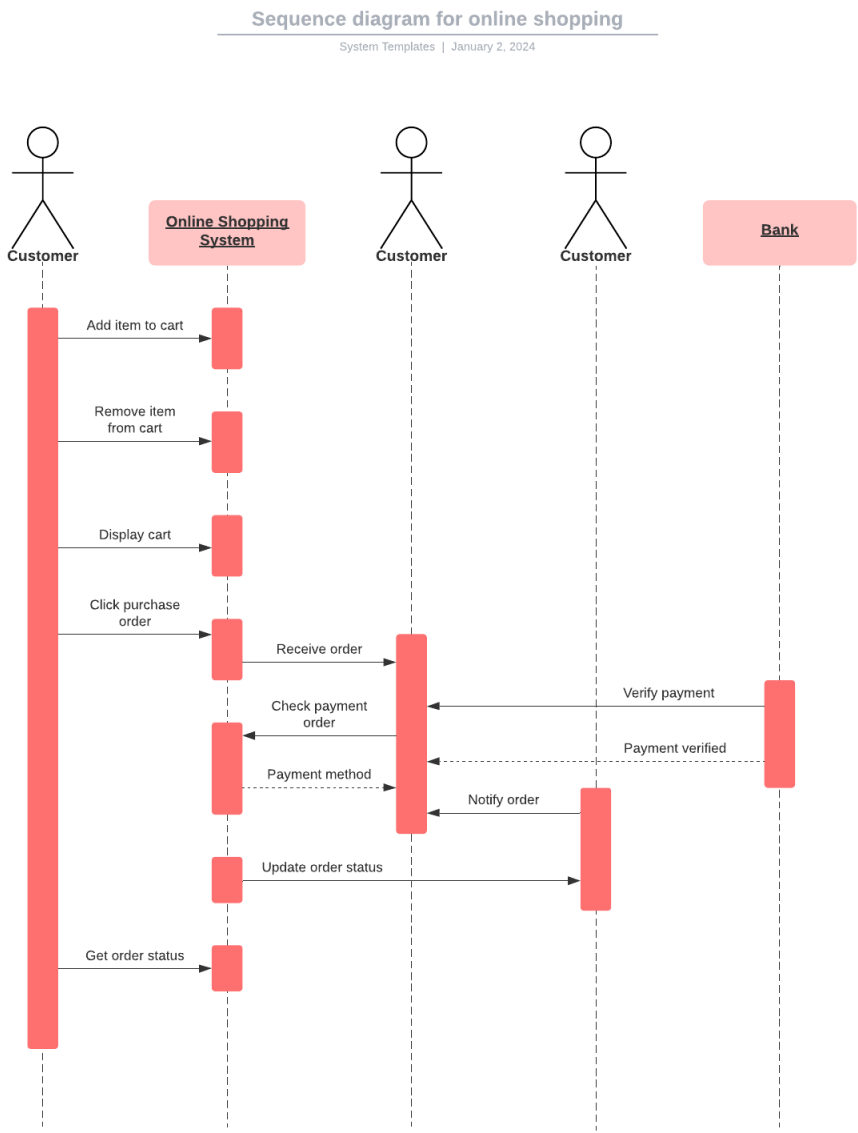
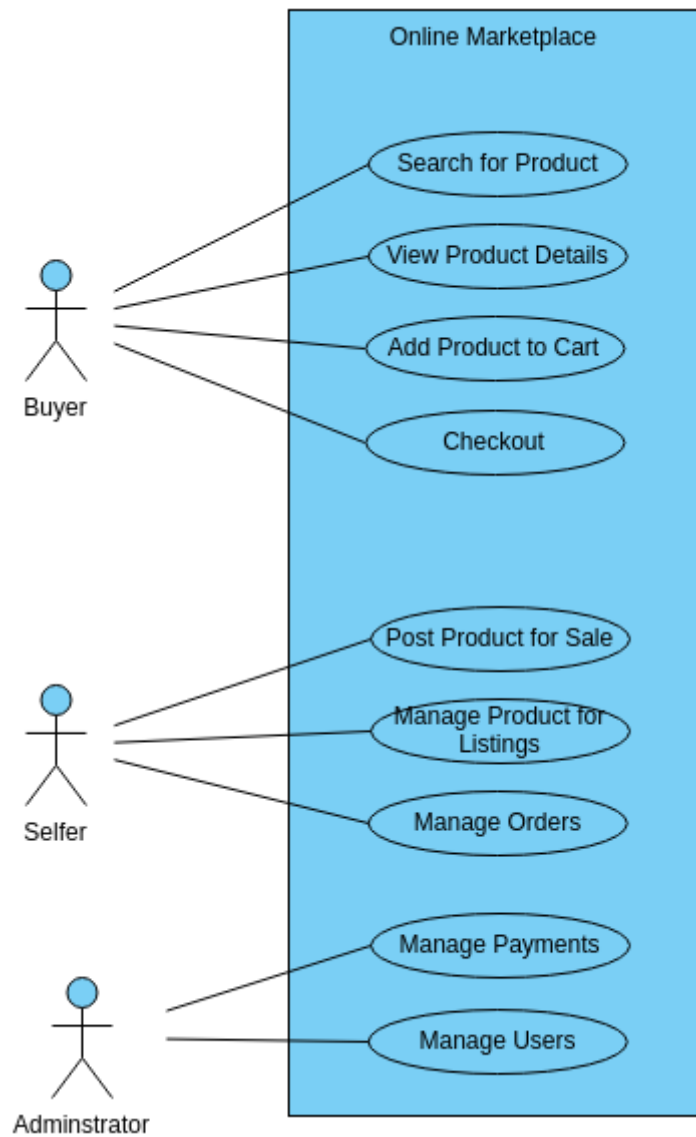


Figure 5 Sequence Diagram

## 6.4 USE CASE DIAGRAM



*Figure 6 Sequence Diagram*



## CHAPTER 7: IMPLEMENTATION

### 7.1 Research and Planning:

- Identify who will use your platform and what they need.
- Look at other similar platforms to see what they offer and what works well.
- Decide what makes your platform different and better.

### 7.2 Design and Structure:

- Decide what your platform will do and what it will look like.
- Design the way users will interact with your platform to be easy and clear.
- Choose the right technology to build your platform.

### 7.3 Development:

- Create the main parts of your platform, like signing in, searching for documents, and paying for them.
- Make sure everything is secure so users' information and payments are safe.
- Make a place for administrators to manage users, documents, and payments.

### 7.4 Document Management:

- Build a system to keep documents organized and easy to find.
- Let users upload documents securely and add information about them.
- Keep track of different versions of documents and changes to them.

### 7.5 Searching and Finding:

- Make a good search tool so users can find the documents they need quickly.
- Let users filter and sort documents by things like date, category, or price.
- Help users find documents by suggesting keywords and showing relevant results.

### 7.6 Payment:

- Set up a way for users to pay for documents securely.
- Offer different payment options like credit cards or online payment services.
- Decide if users will pay once for each document or subscribe to access them.

### 7.7 Communication:

- Build a way for users to message each other safely.
- Let users leave reviews and ratings for documents and sellers.
- Add buttons for users to share documents on social media.

### 7.8 Testing and Quality:

- Test everything to find and fix problems.
- Check that users can use your platform easily and without problems.
- Make sure your platform keeps users' information safe.

### 7.9 Launching and Marketing:

- Plan how you will tell people about your platform and get them to use it.
- Use online marketing like social media and email to reach potential users.
- Offer special deals or discounts to encourage people to try your platform.

### 8.0 Feedback and Improvements:

- Ask users for feedback and ideas to make your platform better.
- Keep updating and improving your platform based on what users say.
- Keep up with changes in laws or technology that might affect your platform.

## CHAPTER 8: PROCESS MODEL

### 8.1 PROCESS MODEL

As per our company work standard, we use agile methodology for fast and productive development.

#### Agile Model

The meaning of Agile is swift or versatile. "Agile process model" refers to a software development approach based on iterative development. Agile methods break tasks into smaller iterations, or parts do not directly involve long term planning. The project scope and requirements are laid down at the beginning of the development process. Plans regarding the number of iterations, the duration and the scope of each iteration are clearly defined in advance.

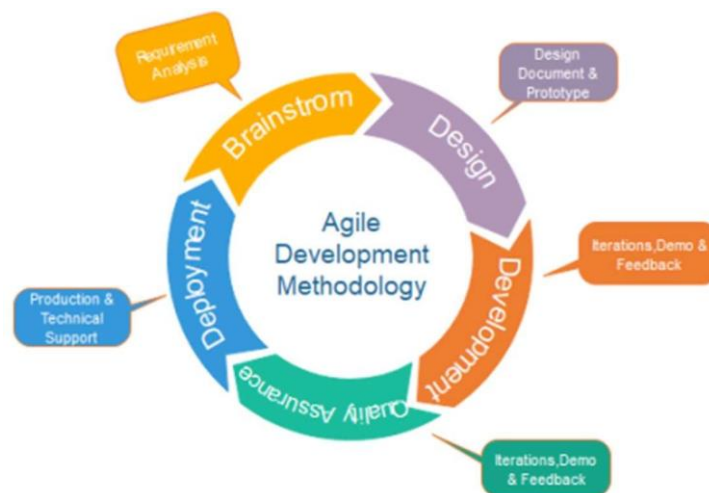


Figure 7-AGILE MODEL

Phases of Agile Model:

Following are the phases in the Agile model are as follows:

Requirements gathering

Design the requirements

Construction/ iteration Testing/

Quality assuranceDeployment

Feedback

## CHAPTER 9: TESTING

### 9.1 TESTING PLAN

- ⇒ A test plan reports the methodology that will be utilized to confirm and guarantee that an item or framework meets its structure particulars and different prerequisites. A test plan is generally arranged by or with critical contribution from test engineers
- ⇒ Software testing has a dual function; it is used to establish the presence of defects in a program, and it is used to help/judge whether or not the program is usable in practice. Software testing is used for validation and verification, which ensures that software, conforms to its specification and meets the need of the software customer. It is used to check errors and validations. We have started with first testing for requirements gathering and designing. Design errors are costly to repair once the system has started operating. So, it is very important to fix the design errors first. Then we move on to implementation error.

### 9.2 TESTING STRATEGY

- ⇒ System testing is an expensive but critical process that can take as much as 70% of the budget of the program development. So testing is the most important part of the system. The common view of testing held by users is that it is performed to prove that there are no errors in the program but the most useful approach is the explicit intention of finding the error i.e. making the program fail. Thus any system that is developed is exhaustively tested before it is finally implemented.

**1) Code Testing:** Code testing is done to examine the logic of the problem. Analyst tests every path through the program. A path is a specific combination of conditions that is handled by the program. Code testing seems to be a method for testing software. In this project, the expert programmer tests the code.

**2) System Testing:** Entire system is tested as per the requirements. Black-box type testing that is based on overall requirements specifications, covers all combined parts of a system.

**3) Storage Testing:** I specify a capacity for the system when it is designed and constructed. Capacities are measured in terms of the number of records that a disk will handle, or file can contain.

**4) Alpha Testing:** The above different testing process described takes place in different

stages of development as per the requirements and needs. But final testing is always made after a full finished product that is before it is released to end-users and this is called alpha testing.

- 5) **Beta Testing:** This process of testing is carried out to have more validity of the software developed. This takes place after the alpha testing. After the alpha phase also, generally, the release is not made fully available to all end users. The server is released to a set of people and feedback is taken from them to ensure the validity of the server.

### 9.3 TESTING METHODS

⇒ Software testing methods are traditionally divided into black-box testing and white box testing. These two approaches are used to describe the point of view that a test engineer takes when designing test cases.

- ✦ **Black Box Testing:** It takes an external perspective of the test object to derive test cases. These tests can be functional or non-functional, though usually functional. The test designer selects valid and invalid input and determines the correct output. There is no knowledge of the test object's internal structure. Black Box Testing is testing without knowledge of the internal workings of the item being tested. For example, when black box testing is applied to software engineering, the tester would only know the "legal" inputs and what the expected outputs should be, but not how the program actually arrives at those outputs. It is because of this that black box testing can be considered testing with respect to the specifications, no other knowledge of the program is necessary. For this reason, the tester and the programmer can be independent of one another, avoiding programmer bias toward his own work. Due to the nature of black box testing, the test planning can begin as soon as the specifications are written.
- ✦ **White Box Testing:** The opposite of black box testing would be glass box testing, where test data are derived from direct examination of the code to be tested. For glass box testing, the test cases cannot be determined until the code has actually been written. Both of these testing techniques have advantages and disadvantages, but when combined, they help to ensure thorough testing of the product. Software testing approaches that examine the program structure and derive test data from the program logic. Structural testing is sometimes referred to as clear-box testing since white boxes are considered opaque and do not really permit visibility into the code.
- ✦ **Unit testing:** unit testing is the process of test verification on the smallest unit of software design- software module. It is used to uncover errors within the boundary of the module.

## CHAPTER 10: APPLICATION SCREENSHOT

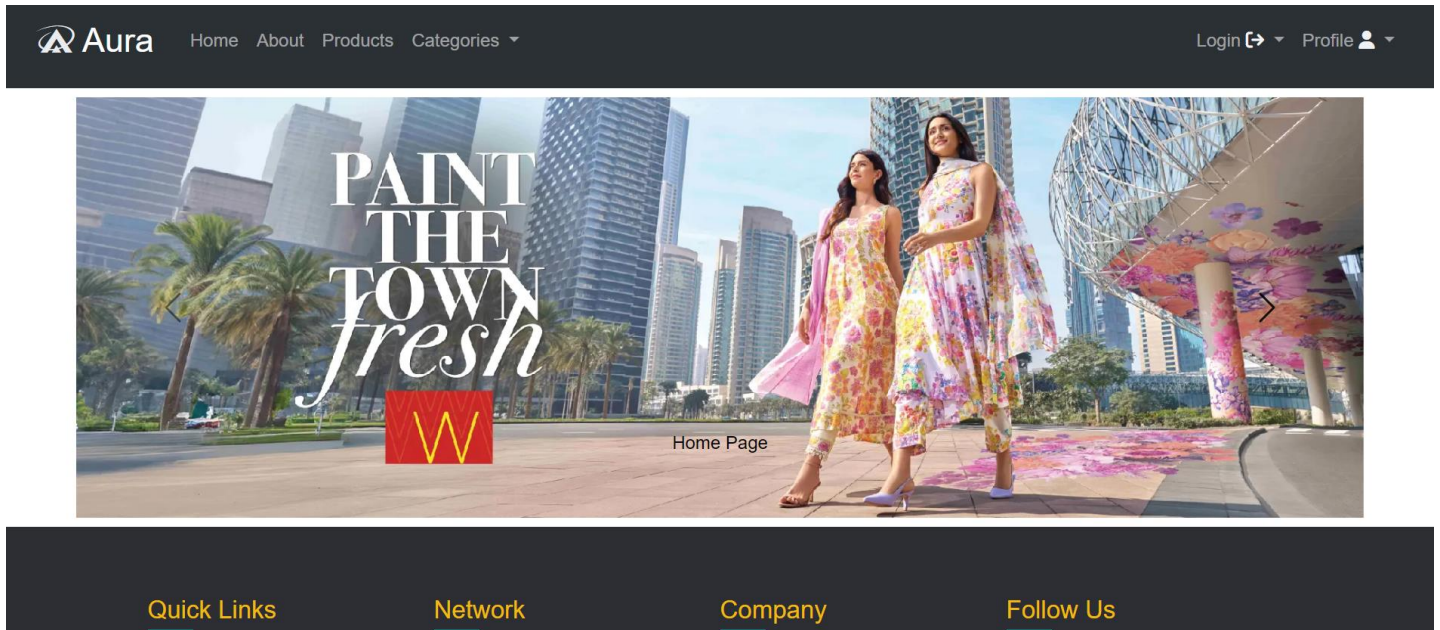


Figure 8 Home Page

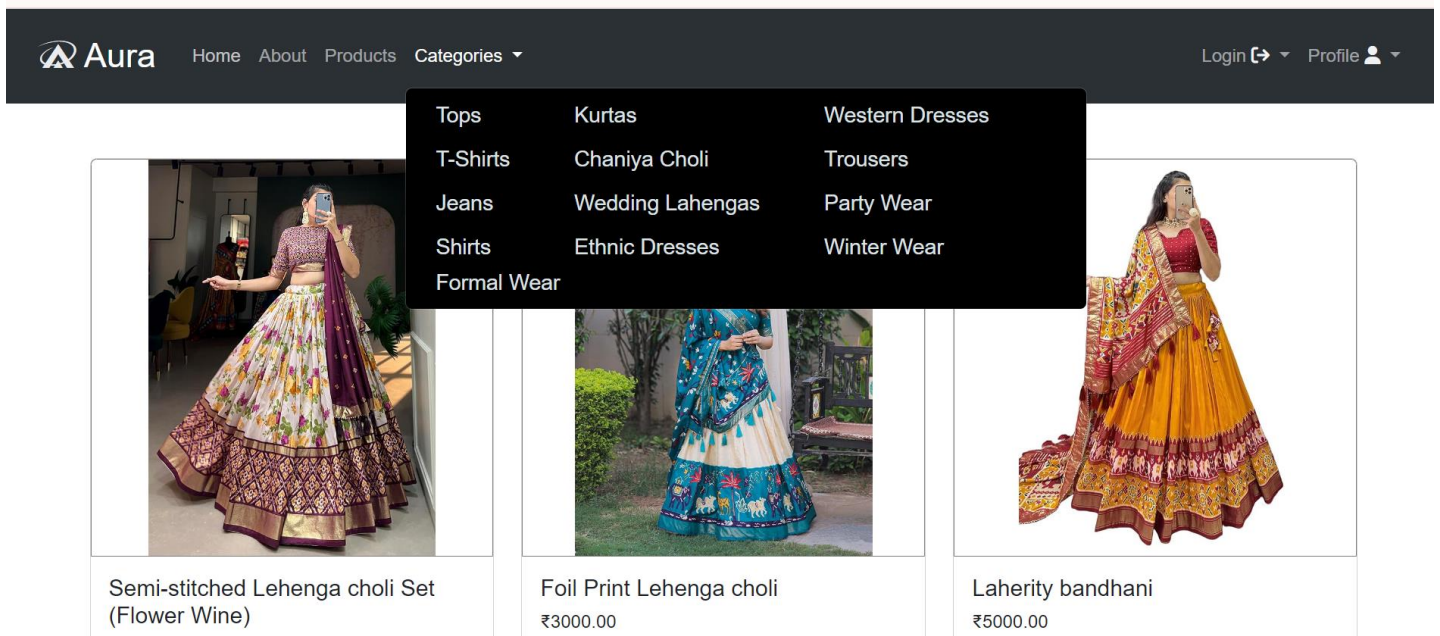
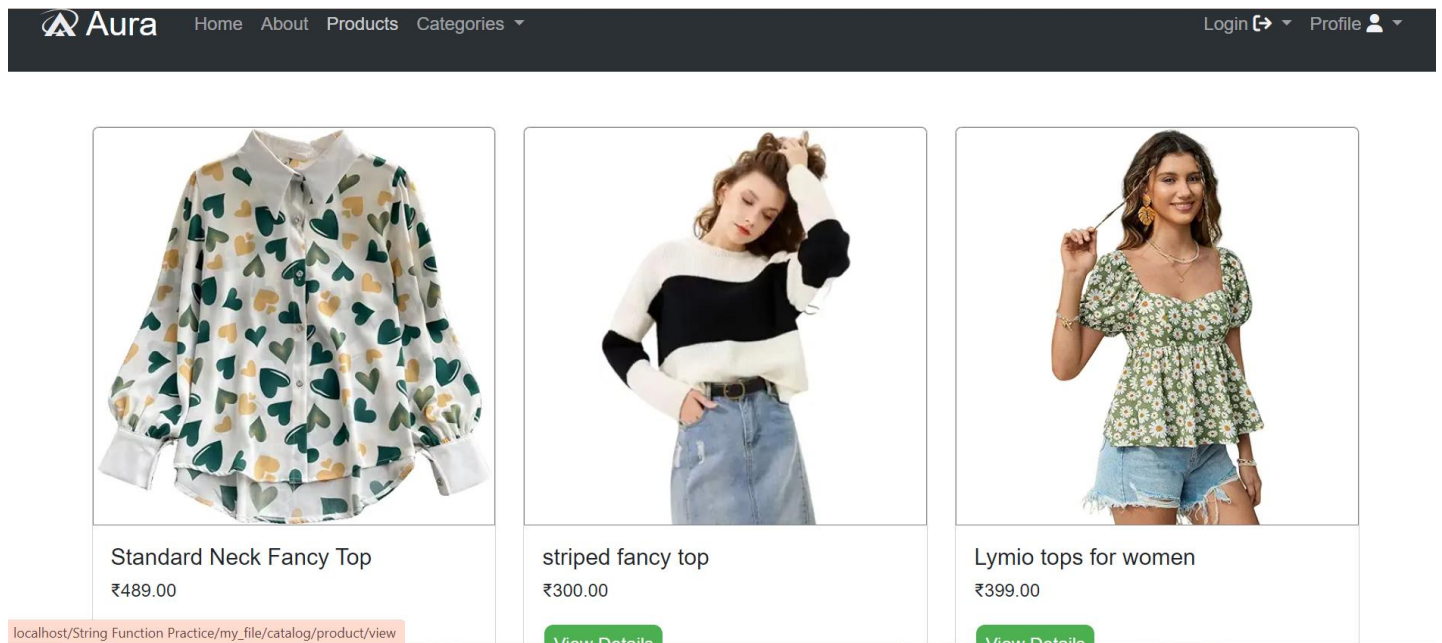
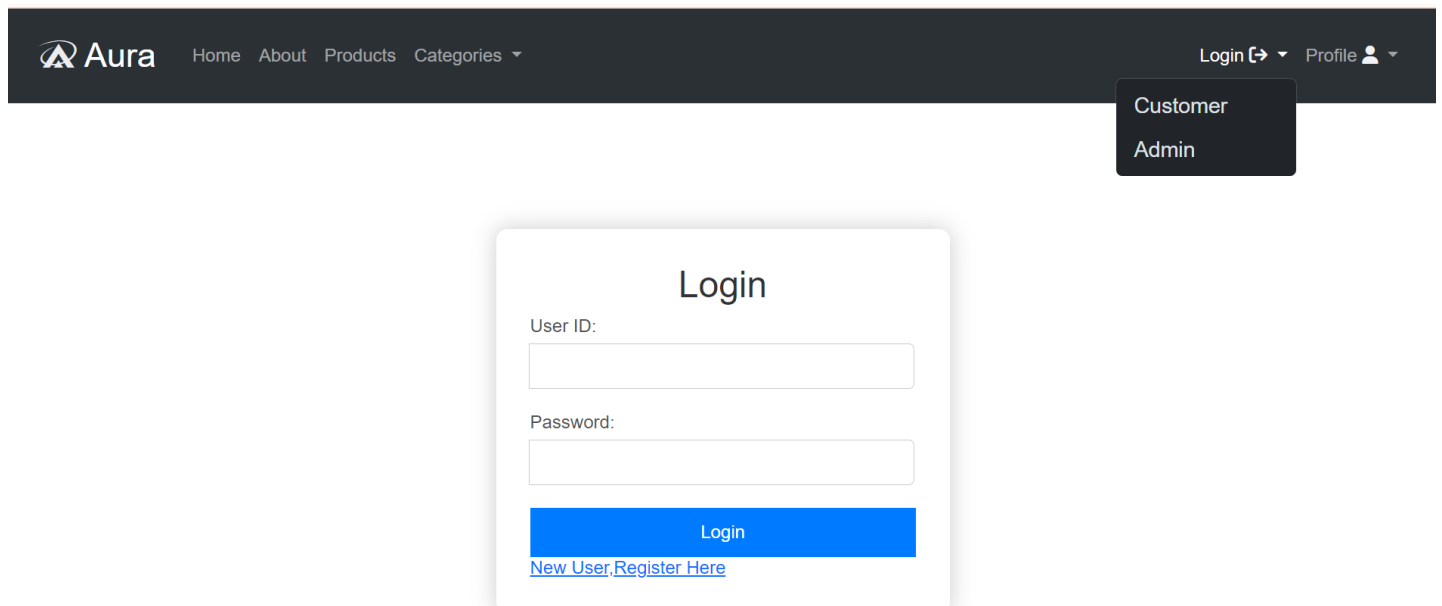


Figure 9 Header Content (Categories)

**Figure 10 All Products****Figure 11 Customer Login Page**

Billing City	<input type="text"/>
Billing Region	<input type="text"/>
Billing Country	<input type="text"/>
Billing Phone	<input type="text"/>
Shipping Address	<input type="text"/>
Shipping City	<input type="text"/>
Shipping Region	<input type="text"/>
Shipping Country	<input type="text"/>
Shipping Phone	<input type="text"/>
default	<input type="text" value="enable"/>
<input type="button" value="submit"/>	

**Figure 12 Customer Registration Form**

Dashboard

My Profile

My Cart

My Orders

Logout

### My Details

#### Profile Information

**Email:** ashvipatel@gmail.com

**Password:**

**First Name:** Ashvi

**Last Name:** Patel

#### Billing Address

**Address:** 456 Cloud 7 heights

**City:** Ahmedabad

**Region:** Gujarat

**Country:** India

**Phone:** +91 9876543210

**Figure 13 Customer Dashboard**

### Shipping Address

**Address:** 456 Cloud 7 heights

**City:** Ahmedabad

**Region:** Gujarat

**Country:** India

**Phone:** +91 9876543210

[Edit](#)[Delete](#)

#### Quick Links

[Home](#)  
[Shop](#)  
[About](#)

#### Network

[Technology](#)  
[Science](#)  
[Business](#)  
[Professional](#)

#### Company

[About](#)  
[Legal](#)  
[Contact Us](#)

#### Follow Us



**Figure 14 Edit & Delete Customer Details**



## London Hills Women's Casual tshirt

**Color:** mint green

**Category:** 2

**Description:** Pattern : Printed Fabric: Cotton blend Sleeve Type: Half Sleeve

**Price:** 500.00


Select Quantity:

[Add To Cart](#)

**Figure 15 Add To Cart Page**



## My Cart



**London Hills Women's Casual tshirt**

**Color:** mint green


**Description:** Pattern : Printed Fabric: Cotton blend Sleeve Type: Half Sleeve

**Price:** ₹500.00

10

Update Quantity Remove Item

Total price: ₹5000.00



**Slab Silk Lehenga Choli In Multicolour Colour**

**Color:** Light Green

**Description:** Wedding Bridal Heavy Silk; Sleeve Type: Sleeve; Closure Type: Drawstring

**Price:** ₹5000.00

8

Update Quantity Remove Item

Total price: ₹40000.00

Tax: ₹0.00

Grand Total: ₹45000.00

checkout

Figure 16 My Cart Page

## Customer Information

Address

**Billing Address:** 456 Cloud 7 heights

**Billing City:** Ahmedabad

**Billing Region:** gujarat

**Billing Country:** India

**Billing Phone:** +91 9876543210

**Billing ZIP:** 384260

### Billing Information

Address:

456 Cloud 7 heights

City:

Ahmedabad

Region:

Enter billing region

Country:

India

Phone:

+91 9876543210

Billing ZIP:

384260

### Shipping Information

☒ Same as Billing

Figure 17 Checkout Page

+91 9876543210

Shipping ZIP:  
384260

### Shipping Methods

Select Shipping Method:

Express Shipping

### Payment Methods

Select Payment Method:

-- Select here --  
-- Select here --  
Cash on Delivery (COD)  
Credit Card  
UPI

Place Order

Figure 18 Payment Details

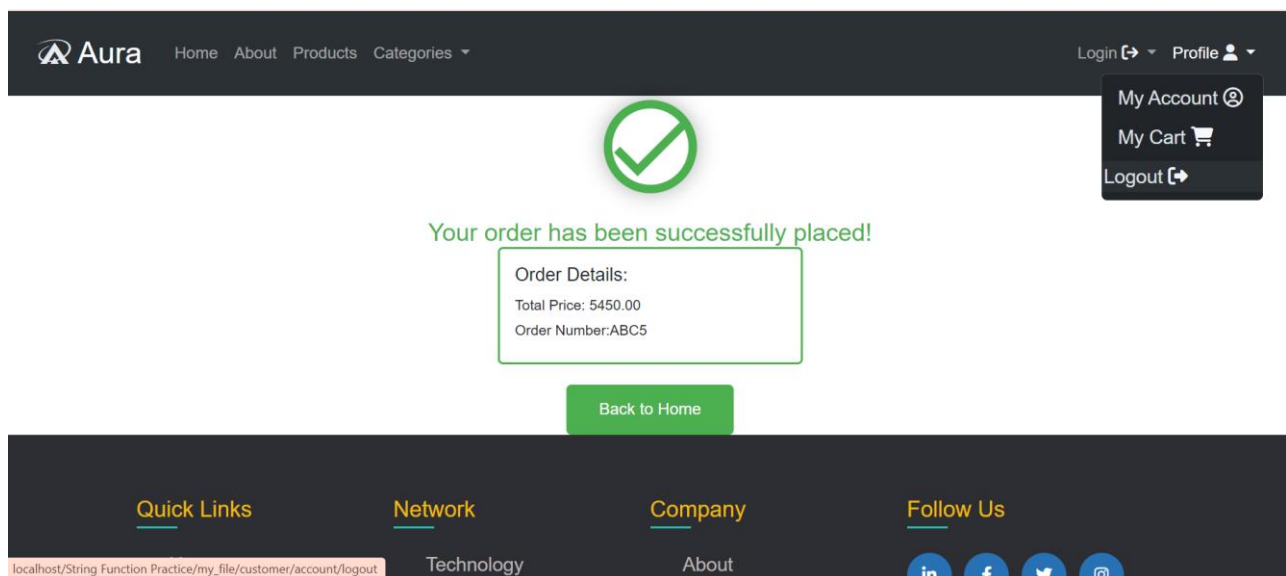


Figure 19 Order Placed Page

localhost/String Function Practi x +

localhost/String%20Function%20Practice/my\_file/sales/order/list

Gmail YouTube Maps News Translate

**Aura** Home About Products Categories Login Profile

## My Orders

Sr. No	Order Number	Grand Total	Status	Actions
1	ABC4	789.00	pending	Order Details
2	ABC5	5450.00	pending	Order Details

**Quick Links**  
Home  
Shop  
About

**Network**  
Technology  
Science  
Business  
Professional

**Company**  
About  
Legal  
Contact Us

**Follow Us**  
in f t i

Type here to search Desktop 8:00 PM 3/28/2024

Figure 20 My Order Page

ADMIN

**Aura** Home About Products Categories Login Profile

### Admin Login

Admin ID:

Password:

Login

Figure 21 Admin Login Page

ID	Stock	Name	Color	Size	Description	Image	Weight	Price	Discount	Weight	Price
27	235	Laherity bandhani	Mir-Yellow	60	this is welk bandhani patola best for navratri trends		hghj 6	5000.00	2000.00	300.00	230
28	789	Patola Lahenga	Green pinkish	30	this is patola with print foil work dupatta .which will give stylish and traditional look		ghjbn 6	1499.00	500.00	100.00	600
29	200	Florelly Women's Embroidered Georgette Anarkali Gown	Blue	30	Elevate your bridal ensemble with our exquisite Royal Red Bridal Lehenga, designed to captivate hearts and steal the		ghjnm 7	1103.00	200.00	100.00	300

Figure 22 Products Listing

Showing rows 0 - 7 (8 total, Query took 0.0004 seconds.)

```
SELECT * FROM `sales_quote_item`
```

Number of rows: 25 | Filter rows: Search this table | Sort by key: None

item_id	quote_id	product_id	price	qty	row_total
1	2	1	489.00	1	489.00
2	4	7	450.00	1	450.00
3	1	32	5000.00	4	20000.00
4	1	34	6000.00	1	6000.00
5	1	6	179.00	1	179.00
6	2	2	300.00	1	300.00
7	3	8	500.00	10	5000.00
8	3	32	5000.00	8	40000.00

Figure 23 Database MyAdmin

All Tables

## **CHAPTER 11: CONCLUSION AND DISCUSSION**

### **11.1 CONCLUSION**

My journey with the Online Marketplace Platform project has been a significant learning experience, highlighting the importance of practical application and problem-solving in the field of web development. Leveraging the Model-View-Controller (MVC) architecture, this project has not only deepened my understanding of software design principles but also equipped me with invaluable skills for building scalable and maintainable web applications.

Through the development of the Online Marketplace Platform, I've gained insights into various aspects of web development, from front-end design using HTML, CSS, and Bootstrap, to back-end functionality with PHP and database management with MySQL. The project's emphasis on MVC has reinforced the importance of separating concerns and organizing code in a logical and modular manner, promoting code reusability and enhancing overall project scalability.

One of the most rewarding aspects of working on the Online Marketplace Platform has been the opportunity to address real-world challenges faced by businesses, such as product management, user authentication, and order processing. By implementing features like user authentication, product categorization, and order management within the MVC framework, I've been able to create a robust and user-friendly platform that meets the needs of both administrators and users.

In conclusion, the Online Marketplace Platform project has been a pivotal learning experience, allowing me to apply theoretical concepts in a practical setting and hone my skills as a web developer. The use of MVC has been instrumental in structuring the project and promoting code maintainability, laying a strong foundation for future projects and continued growth in the field of web development.

### **11.2 DATES OF CONTINUOUS EVALUATION**

- First evaluation of our internship work was done on 24<sup>th</sup> February 2024. Where we have to give a presentation of the work we have done so far.
- Second evaluation was done on 5<sup>th</sup> March 2024.
- Third evaluation was done on 29<sup>th</sup> March 2024.

### **11.3 SUMMARY**

This involves setting up efficient document management, intuitive search features, secure payment systems, and effective communication channels. By giving priority to these aspects and ensuring adherence to high standards of security and usability, the platform aims to offer a dependable environment for both buyers and sellers. Ultimately, its goal is to transform the process of accessing, sharing, and utilizing information in the digital age through innovation and user-focused design.

## REFERENCES

- <https://stackoverflow.com/>
- [PHP: PHP Manual - Manual](#)
- [GeeksforGeeks | A computer science portal for geeks](#)
- [SQL Tutorial \(w3schools.com\)](#)
- [GitHub: Let's build from here · GitHub](#)
- [Bootstrap · The most popular HTML, CSS, and JS library in the world. \(getbootstrap.com\)](#)
- [jQuery](#)