MINI PROJECT REPORT

On

Vintage Autoparts - Antique Automotive Parts

Submitted By

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Submitted in partial fulfillment of the

requirementsfor

Degree of Bachelor of Engineering

Guided By: -

Mrs. Sonam Chopade

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

S.B. JAIN INSTITUTE OF TECHNOLOGY,MANAGEMENT & RESEARCH, NAGPUR.

2021-2022

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Emerge as a leading Institute for developing competent and creative Professionals.

Institute Mission:

- Providing Quality Infrastructure and experienced faculty for academic excellence.
- Inculcating skills, knowledge and opportunities for competency and creativity.
- Aligning with Industries for knowledge sharing, research and development

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S.B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT &RESEARCH, NAGPUR.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SESSION 2020-2021

CERTIFICATE

This is to certify that the Project titled **"Vintage Autoparts – Antique Automotive Parts"** is a bonafide work of **Mr. Gaurav Shripad, Mr. Pankaj Bankar, Mr. Akash Verma, Mr. Aditya Wadgaonkar** carried out for the partial fulfillment of the requirement for the award of Degree of Bachelor of Engineering in **Computer Science & Engineering, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.**

Mrs. Sonam Chopade
Assistant Professor
(Project Guide)

Mr. Animesh Tayal
Head of Department

Dr.S.L.Badjate
Principal

External Examiner

Mr/Mrs/Ms/Dr. _____

Designation: _____

Institution: _____

Date: _____

DECLARATION

We hereby declare that the Project titled **"Vintage Autoparts – Antique Automotive Parts"** submitted herein has been carried out by us in the Department of Computer Science & Engineering of S. B. Jain Institute of Technology Management and Research, Nagpur under the guidance of **Mrs. Sonam Chopade** The work is original and has not been submitted earlier as a whole or in part for the award of any degree / diploma at this or any other Institution / University.

Gaurav Shripad _____

Pankaj Bankar _____

Aditya Wadgaokar _____

Akash Verma _____

Date: - / /

ACKNOWLEDGEMENT

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We would like to extend our special thanks to **Dr. S. L. Badjate**, **Principal** of **S.B. Jain Institute of Technology, Management & Research** for his encouragementand best wishes.

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We also like to acknowledge the help extended by the **faculty members and non-teaching staff** of Computer Science & Engineering Department for successful completionof our project.

Last but not the least, special thanks to our family members, friends and colleagues for their continuous support.

ABSTRACT

In modern world going out and searching for a product has become a headache work. Now a day everyone wants everything in there Instead of going out and find things. It is a world where everything is not available in minimum time and in affordable price.

To overcome these difficulties, we are coming up with a website name VAP(Vintage Auto Parts).VAP is an Auto parts website which helps to choose a wide range of products through your desktop or smartphone rather than visiting the outlets.It is a online website from where you can purchase variety of product which are not easily available in less price. The people suffering to find parts in shop and at last they get nothing in there hand this takes lot of time. Visiting to shop but not finding a appropriate parts and at last satisfying with adjustment. Our application will provide solution to all these problems by providing the users parts all this at their fingertips. Online Automobile parts Store is a web development project in which customer can easily access the website for automobile parts which are difficult to obtain. VAP is used to provide antique parts which are not easily available in the market. This website not only provides antique parts but also provide parts of different vehicles which are limited.

INDEX

LIST OF FIGURES

CHAPTER NO 1

INTRODUCTION

CHAPTER 1
INTRODUCTION

1.1 PROJECT BACKGROUND

In modern time period, automobile industry is one of the fastest growing industries in the world and demand of this company for vehicles is high in the market. Advance technology has led to rapid growth of this industry.

The automotive industry comprises a wide range of companies and organizations involved in design, development, manufacturing, marketing, and selling of motor vehicles. It is one of the world's largest industries by revenue. It also focuses on research & development.

Due to vast development of research & development in this field, the industry has neglected factors like services and extra parts of the vehicle.

In order to tackle this situation some companies have led to develop and manufacture a third party part which helps the customer for repairing and modifying their vehicles.

But the parts provided to customer via arbitrator leads to shortage of parts and rise in price due to which customer are disappointed.

This issue is being discussed by people day by day, it is necessary to make the youth aware of these problems. Therefore this documentation makes an attempt to analyze the College Student's Awareness and Knowledge on this issue.

1.2 PROBLEM STATEMENT:

In today's world going out and searching for a product has become a hassle. Now a day everyone wants the product or things to be available at their own place instead of wandering outside to buy them. People want to make the world a place where the products reach their own place, have easy accessibility and in affordable price; which is not possible.

To overcome these difficulties, we are presenting a website -VAP(Vintage Auto Parts).VAP is an Auto parts website which helps you choose a wide range of products through your desktop or smartphone rather than visiting the outlet store. It is an online website which enables you to buy variety of products, which are not easily available in reduced price.

There are people who wander in many stores for searching their required part but getss nothing in return.Also if the parts are available there is a high possibility of not getting the adjustable or suitable parts for their automobiles.

Our application will provide the solution to all these problems by providing the users all this parts at hand. Online Automobile parts Store is a web development project in which customer can easily access the website for automobile parts which are difficult to obtain.

VAP (Vintage Autoparts) is used to provide antique parts which are not easily available in the market. This is not only provides antique parts but also provide parts of variety of vehicles which are limited.

1.3 PURPOSE OF STUDY:

As we all know, in today's day to day life purchasing of products by visiting stores has become a tough job. As in the modern world going to shop and searching for the product has become difficult for customers.

To overcome these difficulties, we are coming up with a website name VAp(Vintage Autoparts).VAp is an Auto parts website which helps to choose a wide range of products through your desktop or smartphone rather than visiting the outlets.

By introducing this website people will get maximum accessibility at minimum price. People can also browse through various stores at one place through this website. It also provides vintage car parts to the customers who have hobbies of collecting vintage cars.

Objectives

- To reduce efforts of customer
- To provide the user the required parts which are easily available.
- Making it easy for the user to use.
- To provide full satisfaction to user.

1.4 TECHNOLOGICAL BASE:

This Project can be implemented by using various technologies like-

PHP

PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

Features:

- **It's easy to learn and use:** One of the main reasons PHP became so commonplace is that it is relatively simple to get started with. The syntax is simple and command functions are easy to learn, meaning the barriers to entry with PHP are lower than with many other languages.

- **It's open source (and therefore free!):** This also helps developers get started with PHP - it can be installed quickly and at zero cost.
- .
- **It's versatile:** One of the major benefits of PHP is that it is platform independent, meaning it can be used on Mac OS, Windows, Linux and supports most web browsers.

- **It's fast and secure:** Two things that every organization wants their website or application to be are fast and secure. PHP uses its own memory and competes well on speed, especially when using the newer versions.

- **It is well connected with databases:** PHP makes it easy to connect securely with almost any kind of database. This gives developers more freedom when choosing which database is best suited for the application being built.

MySQL

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

MySQL follows the working of Client-Server Architecture. This model is designed for the end-users called clients to access the resources from a central computer known as a server using network services. Here, the clients make requests through a graphical user interface (GUI), and the server will give the desired output as soon as the instructions are matched. The process of MySQL environment is the same as the client-server model.

Features:

- MySQL is an open-source database, so you don't have to pay a single penny to use it.
- MySQL is a very powerful program that can handle a large set of functionality of the most expensive and powerful database packages.
- MySQL is customizable because it is an open-source database, and the open-source GPL license facilitates programmers to modify the SQL software according to their own specific environment.
- MySQL is quicker than other databases, so it can work well even with the large data set.
- MySQL supports many operating systems with many languages like PHP, PERL, C, C++, JAVA, etc.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL is very friendly with PHP, the most popular language for web development.

CHAPTER NO 2

LITERATURE SURVEY

CHAPTER 2
LITRATURE SURVEY

Over the past few years, a huge rise is observed in the online automotive spare parts and accessories sales industry. According to a market survey, the industry is growing continuously at a consistent rate of 3 per cent per annum, and the similar trend is expected to continue till 2030. Although the industry's growth is still not comparable to the online fashion industry, the justifiable investment of around $516 million is enough to prove the online auto parts store's growing trend.

To build your business online, the first thing you should do is to know what you want to sell. Knowing the products would help you plan the auto parts warehouse website for your business and provide your customers a seamless and attractive website with an easy, user-friendly interface to deliver a robust user experience that would enhance conversion rate rather than bounces. Another benefit of building your business with an automotive e-commerce solution online would allow thousands of potential customers to reach you quickly. With such a website, you can easily provide your customers searching online for the products they need by utilizing and practicing good E-commerce SEO for auto parts stores to help you rank higher and increase your website's traffic. Here, in this article, we would discuss the essential features of an online auto parts store.

Externals are typically the best-selling auto parts found on platforms like eBay and Amazon since they are often more manageable for the layman to replace. These parts can be either OEM replacements or aftermarket upgrades because fitment is generally straightforward to determine.

External parts like these often require big shipping boxes and are less fragile than internal ones.

The online automotive parts and accessories sales industry has skyrocketed over the past five years as brick-and-mortar retailers enter the online space.

According to Statista, this trend will only grow, as the online automotive aftermarket market size is set to nearly triple worldwide by 2027.

There are many different demographics and user groups who buy auto parts online. The obvious categories include wholesale buyers — e.g., a local garage — and retail consumers — e.g., people looking to make a one-off purchase. Knowing your target market is also a consideration when designing and building your ecommerce website.

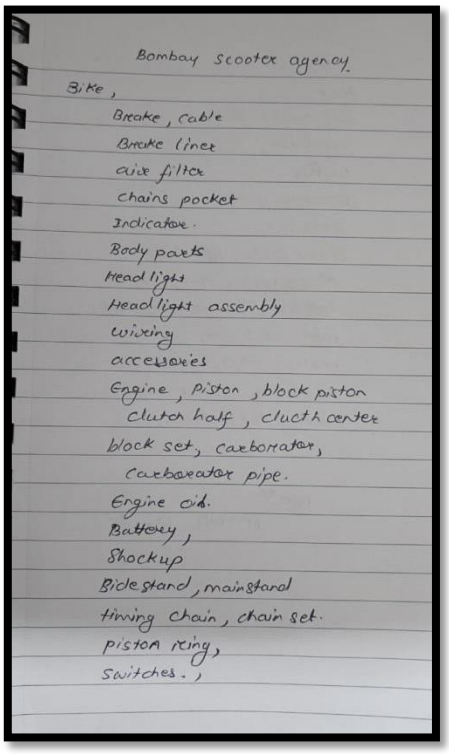
If you have a current website and want to add an ecommerce component, you can use tools like Google Analytics to analyze your current user demographic. Google Analytics allows you to track your audience by age group, gender, country, interests and more.

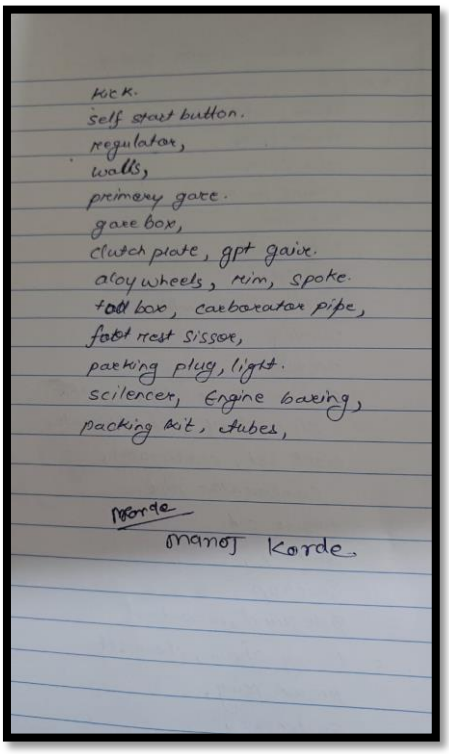
2.1 RELATED WORK

Revolution Parts: Perhaps the most popular platform out there, and one we have considerable experience working with. Your basic subscription includes one OEM catalog with the option to add in more at an extra cost. In addition to a plug-and-play ecommerce site, Revolution Parts also allows you to upload your auto parts listings directly to eBay and Amazon (*Read: Ultimate marketers guide to advertising car parts on Amazon*) and manage all of your orders from one convenient dashboard.

Simple Part: With 11 automotive brands to choose from, there are a lot of dealerships and auto parts shops that would be glad to get on board with this parts & accessories website. Unfortunately, they don't come with parts data for Ford or GM vehicles out of the box which makes their website builder a harder sell for US-based sellers.

- **Live Survey**

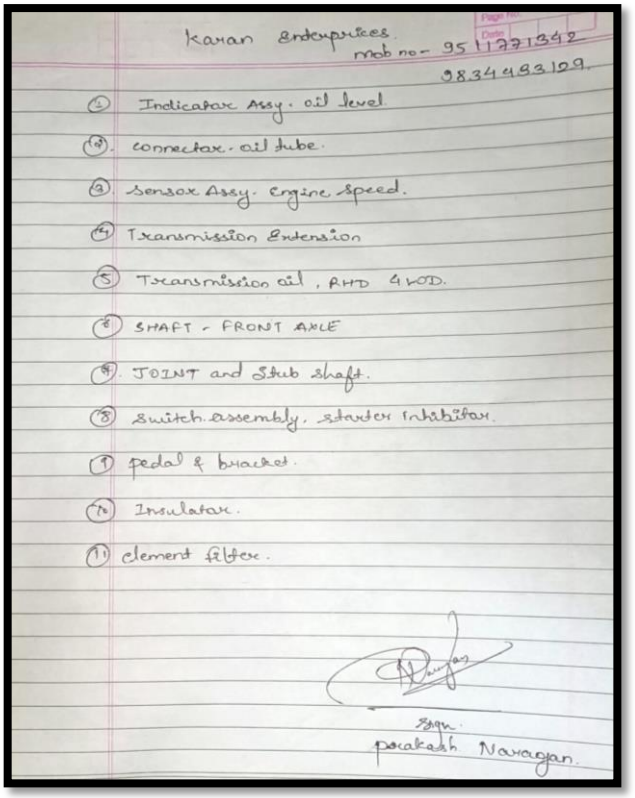




- Bombay Scooter agency -

Location – Yashwant stadium, Sitaburdi, Nagpur

1. By Survey in shop we find out that, some parts like, Engine (includes piston, block piston, piston ring etc.), Clutch (includes Clutch half, clutch center block set etc.), Body parts (includes indicator, headlights assembly, wirings etc.) Are required on daily purpose where as it quantity low, and customer have to wait for 2 to 4 days to get these parts.



Karan enterprises
mob no- 9511771342
9834493129

1. Indicator Assy. oil level
2. connector. oil tube.
3. Sensor Assy. Engine Speed.
4. Transmission Extension
5. Transmission oil, RHD 4WD.
6. SHAFT - FRONT AXLE
7. JOINT and Stub shaft.
8. Switch assembly, starter inhibitor.
9. pedal & bracket.
10. Insulator.
11. element filter.

Sign.
Prakash Navagan.

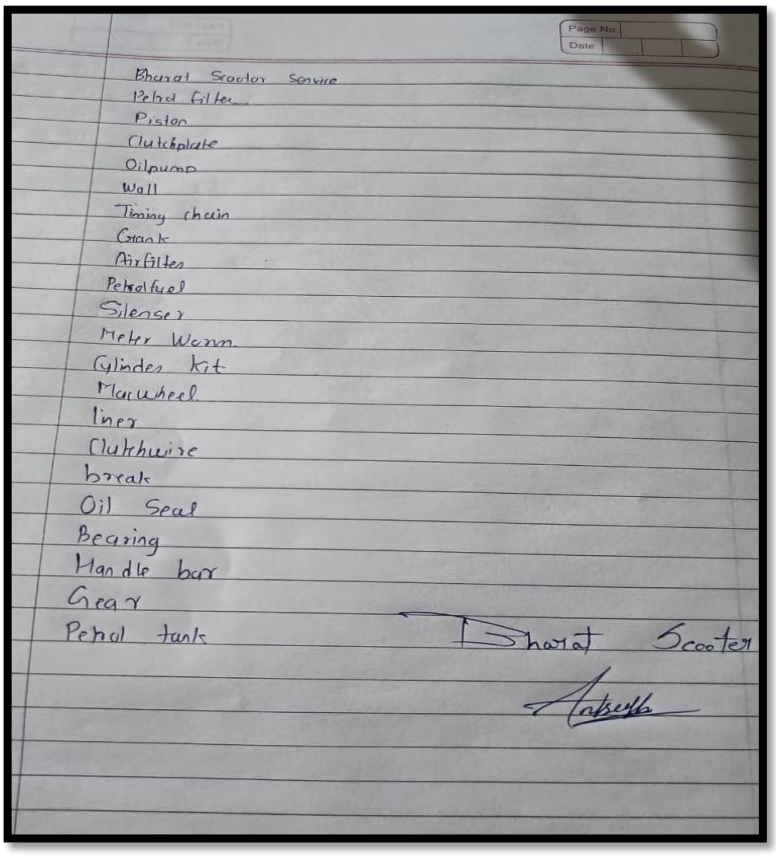
- Karan enterprises

  Location – Katol Naka , Nagpur

  1. By Survey in shop we find out that, Customer always ask for parts like, Oil Tube, Oil tank assembly ,sensor assembly ,Transmission Extension , Transmission oil RHD 4WD ,pedal & brackets ,element filter etc.

  2. Customer also ask for Custom parts like silencer, Custom lights,

  Air horns, etc.



- Bharat Scooter Service

  Location - Agresen Square gandhibaug

  1. By Survey in shop we find out that, Some parts like, Engine (includes piston, block piston, piston ring etc.), Clutch (includes Clutch half, clutch center block set etc.), Oil tank Parts (includes Oil Seal, Oil pump, Oil Filter etc.) Are required on daily purpose where as it quantity low and customer have to wait for 2 to 4 days to get these parts.

  2. Whereas parts like Piston Ring, Cylinders seal, Gears shaft, Oil pump etc. are difficult to get.

CHAPTER NO 3

METHODOLOGY / PROPOSEDSOLUTION

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METHODOLOGY / PROPOSEDSOLUTION

3.1 PROPOSED SOLUTION

As we all know, in today's day to day life purchasing of products by visiting stores has become a tough job. As in the modern world going to shop and searching for the product has become difficult for customers.

To overcome these difficulties, we are coming up with a website name VAp(Vintage Autoparts).VAp is an Auto parts website which helps to choose a wide range of products through your desktop or smartphone rather than visiting the outlets.

- To reduce efforts of customer
- To provide the user the required parts which are easily available.
- Making it easy for the user to use.
- To provide full satisfaction to user.

Modules:

1. Module 1:

It consist of Login page, Registration page design, product page design, front page design as well as header footer design ,it also consist of research/survey of data, logo design, and making site responsive.

2. Module 2:

It consist of making product page ,its components like brands, categories, items, login, logout page, cart page, home page etc. By this component we also attached database in MySQL with the help of PHP for inserting data of brands, categories, login/logout, registration data, fetching products from database to cart, payment getaway portal also for operating fetching and inserting through admin portal.

3. Module 3:

It consist of payment getaway portal, making site responsive as well as Making about page of our project and testing of components made in module 1 and module 2. Also it consists of making admin page which consist of all the information of customer, products, brands, categories, orders, and No. of admins.

3.2 SYSTEM ARCHITECTURE

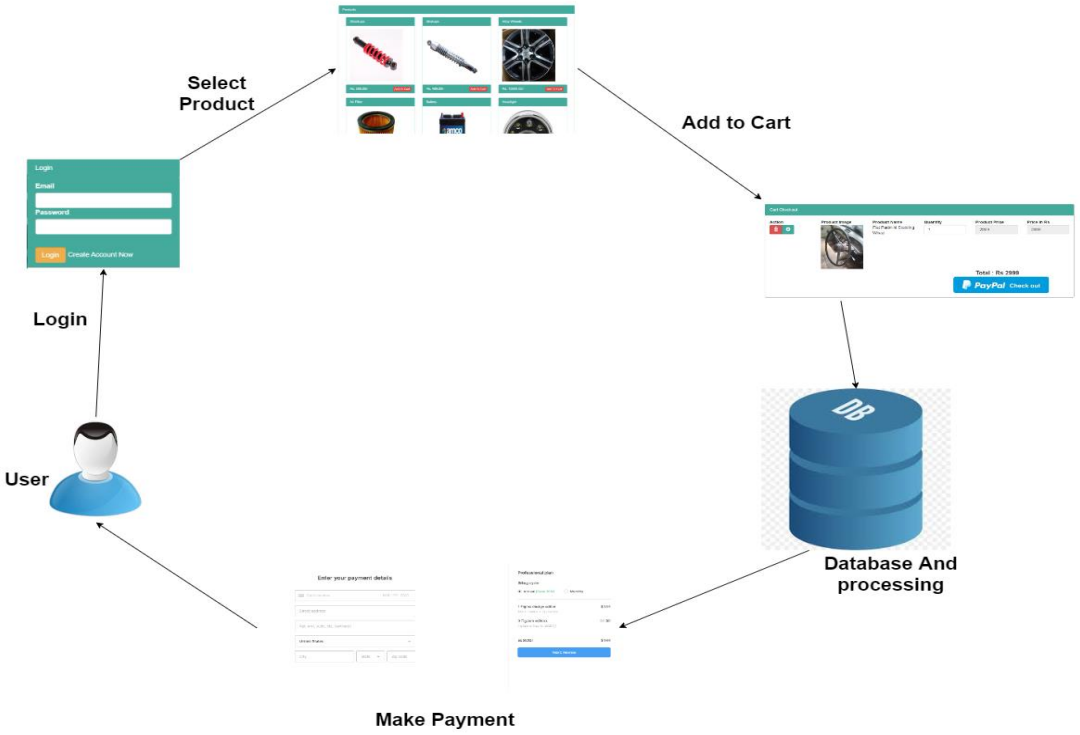

Fig 3.2 System Architecture

The Primary focus of web application is to provide user a platform with Automobile parts i.e. to buy products, track inventory, and view new listed products. We have implemented this by creating a web application known as Vintage Autoparts – Antique Automotive parts. Here the user just have to view products, list them in his inventory and proceed to checkout, then the model will analyze the components and product and it for checkout. As soon as the payment has done, it generates the data which will be stored in the database.

The above architecture describes the complete process of the web application and the sequence of usage. The whole process in described in the above diagram.

3.3 FLOW CHART

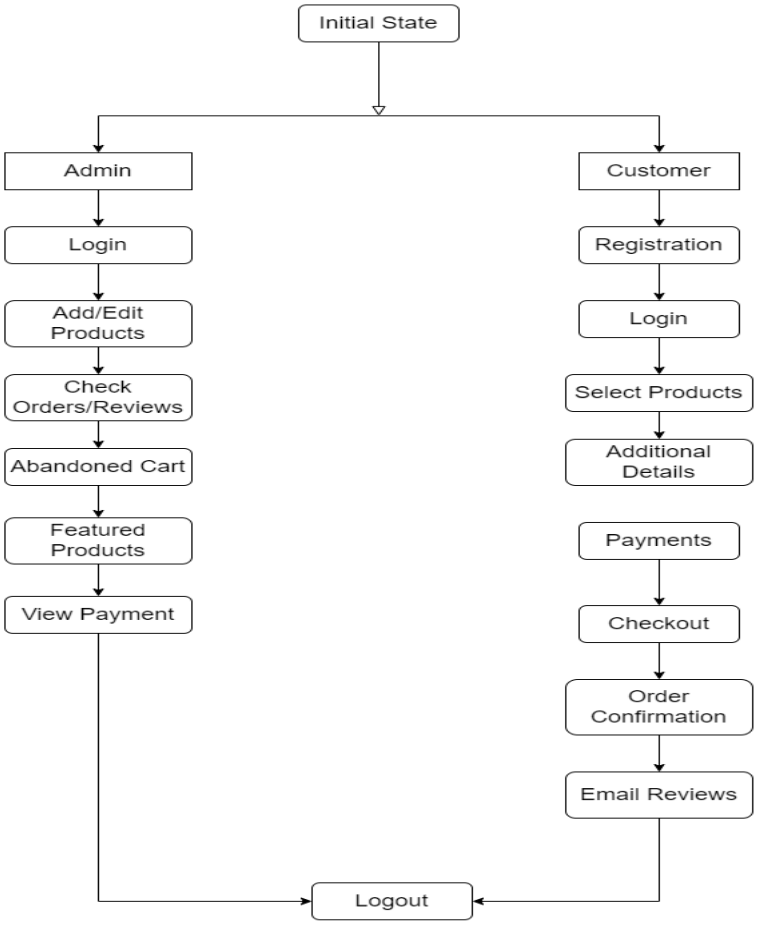

Fig 3.3 Flow Chart

Above we have shown the flow of our project. In this, the users just have to either signup and register an account if he/she is a new user. Once the account is created they can directly login and use the various features of this web application such as Select products and add to cart payment and order confirmation.

CHAPTER NO 4

TOOLS/PLATFORM

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TOOLS/PLATFORM

4.1 SOFTWARE REQUIREMENT

1. **Operating System:** Windows 7 or Higher
2. **Web Framework:** PHP
3. **Server Side Technology:** PHP, MySQL
4. **Client Side Technology:** HTML, CSS, BOOTSTRAP, JAVASCRIPT
5. **Training Environment:** Visual Studio Code
6. **Designing Tool:** Draw.io
7. **Testing Tool:** MS Excel

1. OPERATING SYSTEM:

Any Operating System (preferably windows 7 or higher) which is having architecture of 32-bit or higher is supported. We have used Windows 10 64-bit.

2. WEB FRAMEWORK:

PHP

PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

Features:

- **It's easy to learn and use:** One of the main reasons PHP became so commonplace is that it is relatively simple to get started with. The syntax is simple and command functions are easy to learn, meaning the barriers to entry with PHP are lower than with many other languages.
- **It's open source (and therefore free!):** This also helps developers get started with PHP - it can be installed quickly and at zero cost.
- **It's versatile:** One of the major benefits of PHP is that it is platform independent, meaning it can be used on Mac OS, Windows, Linux and supports most web browsers.

- **It's fast and secure:** Two things that every organization wants their website or application to be are fast and secure. PHP uses its own memory and competes well on speed, especially when using the newer versions.
- **It is well connected with databases:** PHP makes it easy to connect securely with almost any kind of database. This gives developers more freedom when choosing which database is best suited for the application being built.

3. SERVER SIDE TECHNOLOGY:

- **MySQL:**

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

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- MySQL supports many operating systems with many languages like PHP, PERL, C, C++, JAVA, etc.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL is very friendly with PHP, the most popular language for web development.

4. CLIENT SIDE TECHNOLOGY:

- **HTML:**

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Language uses tags to define what manipulation has to be done on the text.

Features:

- It is easy to learn and easy to use.
- It is platform independent.
- Images, video and audio can be added to a web page.
- Hypertext can be added to text.

- **CSS:**

  Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

  Features:

  - You can control the- color of the text, the style of fonts and etc.
  - Variations in display for different devices and screen sizes as well as a variety ofother effects.

- **BOOTSTRAP:**

  Bootstrap is a free and open-source front end development framework for the creation of websites and web apps. The Bootstrap framework is built on HTML, CSS, and JavaScript (JS) to facilitate the development of responsive, mobile-first sites and apps. Responsive design makes it possible for a web page or app to detect the visitor's screen size and orientation and automatically adapt the display accordingly.

  Features:

  - Easy to Begin With
  - LESS as Well as CSS Files
  - Easily Customizable
  - Responsive Utility Classes
  - Some of the components come pre-styled in Bootstrap

- **JAVASCRIPT:**

JavaScript is an *object-based scripting language* which is lightweight and cross-platform. JavaScript is not a compiled language, but it is a translated language. The JavaScript Translator (embedded in the browser) is responsible for translating the JavaScript code for the web browser.

Features:

- Object-Centered Script Language
- Client edge Technology
- Validation of User's Input
- Else and If Statement
- Interpreter Centered
- Ability to perform In Built Function
- Case Sensitive form

4. TRAINING ENVIRONMENT:

- **Visual Studio Code**

Visual Studio Code (famously known as VS Code) is a free open source text editor by Microsoft. VS Code is available for Windows, Linux, and macOS. Although the editor is relatively lightweight, it includes some powerful features that have made VS Code one of the most popular development environment tools in recent times.

Features:

- VS Code supports a wide array of programming languages from Java, C++, and Python to CSS, Go, and Dockerfile.
- VS Code allows you to add on and even creating new extensions including code linters, debuggers, and cloud and web development support.
- The VS Code user interface allows for a lot of interaction compared to other text editors.
- To simplify user experience, VS Code is divided into five main regions:
  1. The activity bar
  2. The side bar
  3. Editor groups
  4. The panel
  5. The status bar

Advantages:

1. Cross-platform support: Windows, Linux, Mac
2. Light-weight
3. Robust Architecture
4. Intellij-Sense
5. Freeware: Free of Cost- probably the best feature of all for all the programmers Out there, even more for the organizations.

5. DESIGNING TOOL

- **Draw.io**

  Draw.io is completely free online diagram editor built around Google Drive(TM) that enables you to create flowcharts, UML, entity relation, network diagrams, mockups and more.

  Features:

  - Collaboration Tools
  - Data Import/Export
  - Drag & Drop Interface
  - Third Party Integration

6. TESTING TOOL

For testing purpose we used MS Excel to observe the results of application.

CHAPTER NO 5

DESIGN & IMPLEMENTATION

CHAPTER 5

DESIGN & IMPLEMENTATION

5.1 SYSTEM DESIGN

5.1.1 USE-CASE DIAGRAM

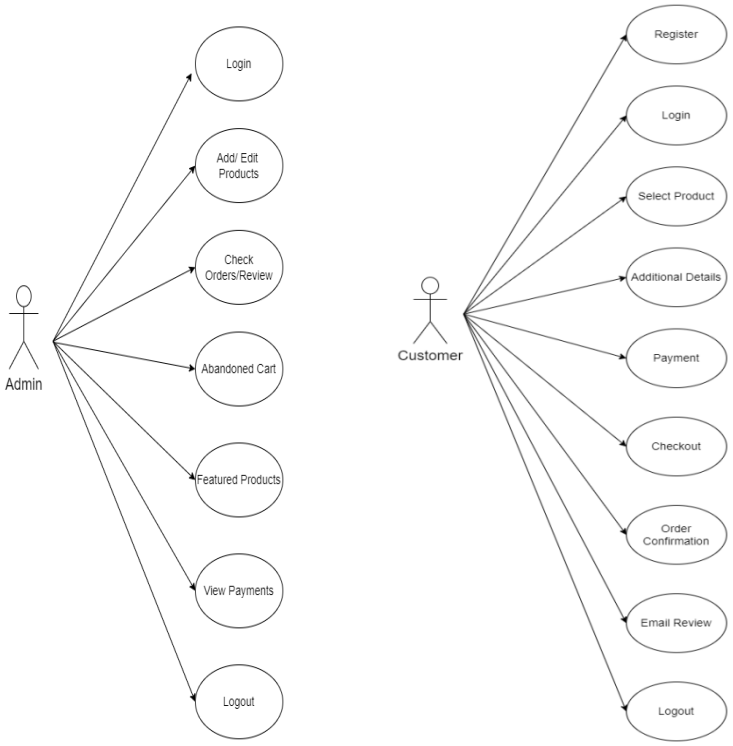

Fig. - 5.1.1: Use-Case Diagram

The above use case diagram simply depicts the task which a user can perform through our application.

- User can register or login to the application.
- User can add and edit the products.
- User can view featured products.
- User can track the inventory and make payments.
- .User can successfully logout.

5.1.2. CLASS DIAGRAM

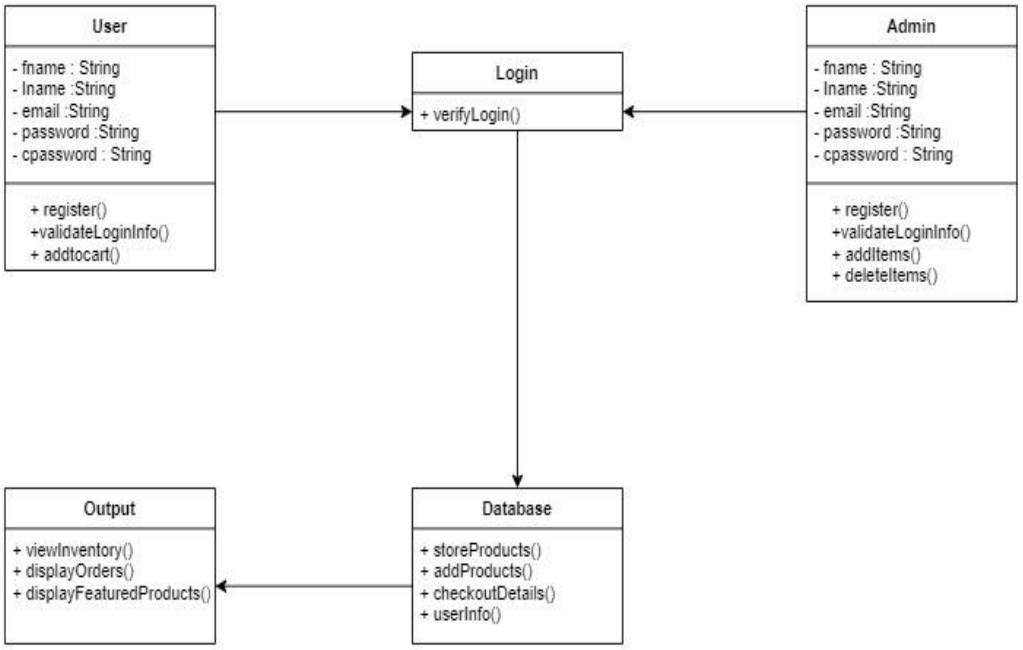

Fig. - 5.1.2: Class Diagram

In the above class diagram, the whole process of our web application is represented in a certain manner. The user classes are responsible for registration, login information as well as adding a product into cart and making a payment for it. The login class is responsible for the systematic login of the user and admin. Whereas the database class is responsible for storing and retrieving the data. And finally the output class is responsible for displaying the inventory, displaying orders and featured products.

5.1.2 SEQUENCE DIAGRAM

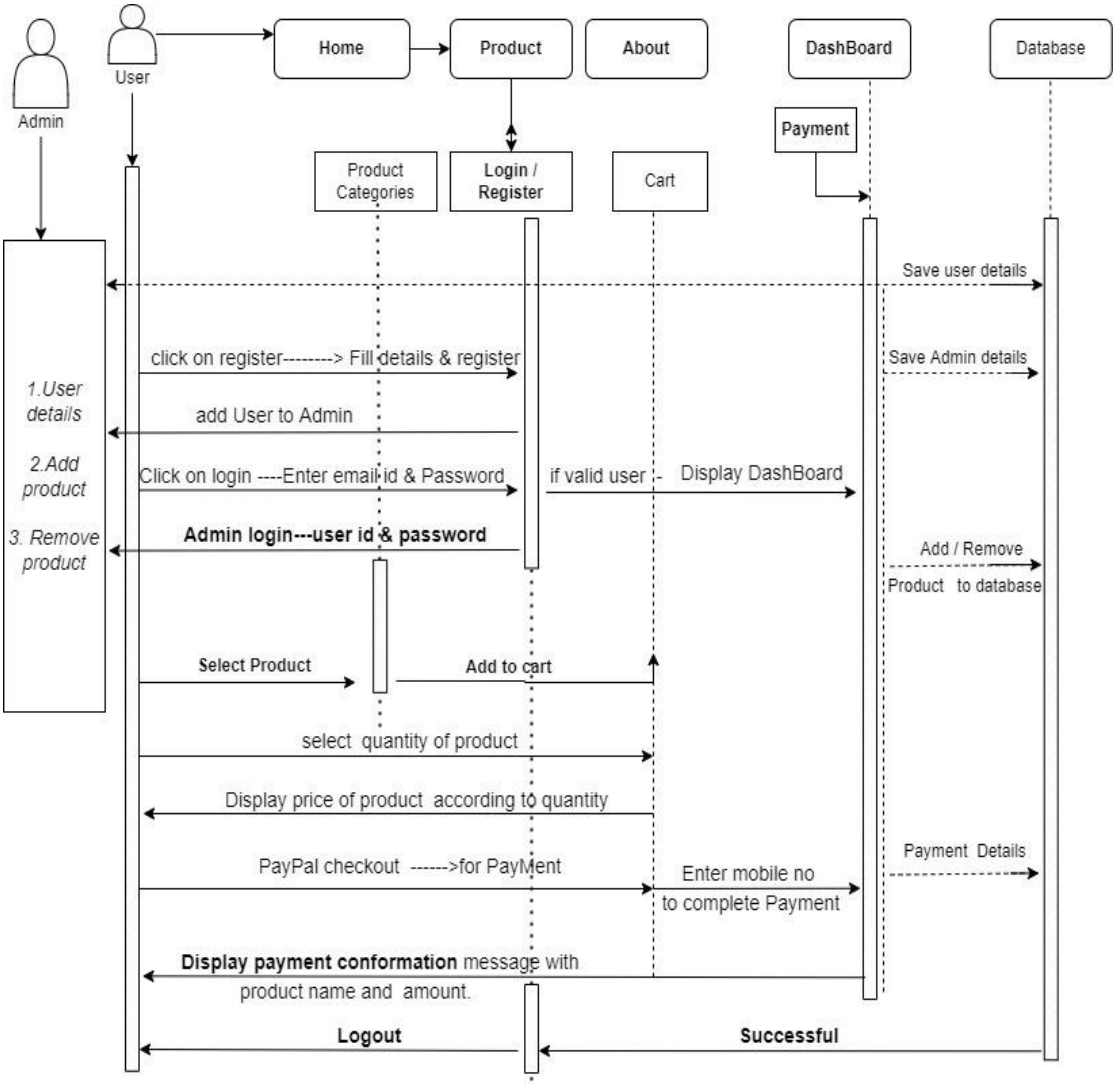

Fig. - 5.1.3: Sequence Diagram

5.2 IMPLEMENTED MODULES

Module 1:

It consist of Login page, Registration page design, product page design, front page design as well as header footer design ,it also consist of research/survey of data, logo design, and making site responsive.

.

Module 2:

It consist of making product page ,its components like brands, categories, items, login, logout page, cart page, home page etc. By this component we also attached database in MySQL with the help of PHP for inserting data of brands, categories, login/logout, registration data, fetching products from database to cart, payment getaway portal also for operating fetching and inserting through admin portal.

Module 3:

It consist of payment getaway portal, making site responsive as well as Making about page of our project and testing of components made in module 1 and 2. Also it consists of making admin page which consist of all the information of customer, products, brands, categories, orders, and No. of admins.

5.3 SAMPLE CODE

```
$(document).ready(function(){
	cat();
	brand();
	product();
	//cat() is a funtion fetching category record from database whenever page is load
	function cat(){
		$.ajax({
			url	:	"action.php",
			method:	"POST",
			data	:	{category:1},
			success :	function(data){
				$("#get_category").html(data);

			}
		})
	}
	//brand() is a funtion fetching brand record from database whenever page is load
	function brand(){
		$.ajax({
			url	:	"action.php",
			method:	"POST",
			data	:	{brand:1},
			success :	function(data){
				$("#get_brand").html(data);
			}
		})
	}
	//product() is a funtion fetching product record from database whenever page is load
		function product(){
		$.ajax({
			url	:	"action.php",
			method:	"POST",
			data	:	{getProduct:1},
			success :	function(data){
				$("#get_product").html(data);
			}
		})
	}
	$("body").delegate(".category","click",function(event){
		$("#get_product").html("<h3>Loading...</h3>");
		event.preventDefault();
		var cid = $(this).attr('cid');
			$.ajax({
			url		:	"action.php",
			method :	"POST",
			data	:	{get_seleted_Category:1,cat_id:cid},
			success :	function(data){
				$("#get_product").html(data);
				if($("body").width() < 480){
					$("body").scrollTop(683);
				}
			}
```

```
	})
})
$("body").delegate(".selectBrand","click",function(event){
	event.preventDefault();
	$("#get_product").html("<h3>Loading...</h3>");
	var bid = $(this).attr('bid');

		$.ajax({
		url		:	"action.php",
		method :	"POST",
		data	:	{selectBrand:1,brand_id:bid},
		success :	function(data){
			$("#get_product").html(data);
			if($("body").width() < 480){
				$("body").scrollTop(683);
			}
		}
	})

})
$("#search_btn").click(function(){
	$("#get_product").html("<h3>Loading...</h3>");
	var keyword = $("#search").val();
	if(keyword != ""){
		$.ajax({
		url		:	"action.php",
		method :	"POST",
		data	:	{search:1,keyword:keyword},
		success :	function(data){
			$("#get_product").html(data);
			if($("body").width() < 480){
				$("body").scrollTop(683);
			}
		}
	})
	}
})
//end
$("#login").on("submit",function(event){
	event.preventDefault();
	$(".overlay").show();
	$.ajax({
		url	:	"login.php",
		method:	"POST",
		data	:$("#login").serialize(),
		success :function(data){
			if(data == "login_success"){
				window.location.href = "profile.php";
			}else if(data == "cart_login"){
				window.location.href = "cart.php";
			}else{
				$("#e_msg").html(data);
				$(".overlay").hide();
			}
		}
```

```
	})
})
//end
//Get User Information before checkout
$("#signup_form").on("submit",function(event){
	event.preventDefault();
	$(".overlay").show();
	$.ajax({
		url : "register.php",
		method : "POST",
		data : $("#signup_form").serialize(),
		success : function(data){
			$(".overlay").hide();
			if (data == "register_success") {
				window.location.href = "cart.php";
			}else{
				$("#signup_msg").html(data);
			}
		}
	})
})
//Get User Information before checkout end here

//Add Product into Cart
$("body").delegate("#product","click",function(event){
	var pid = $(this).attr("pid");
	event.preventDefault();
	$(".overlay").show();
	$.ajax({
		url : "action.php",
		method : "POST",
		data : {addToCart:1,proId:pid},
		success : function(data){
			count_item();
			getCartItem();
			$('#product_msg').html(data);
			$('.overlay').hide();
		}
	})
})
//Add Product into Cart End Here
//Count user cart items funtion
count_item();
function count_item(){
	$.ajax({
		url : "action.php",
		method : "POST",
		data : {count_item:1},
		success : function(data){
			$(".badge").html(data);
		}
	})
}
//Count user cart items funtion end
```

```
//Fetch Cart item from Database to dropdown menu
getCartItem();
function getCartItem(){
	$.ajax({
		url : "action.php",
		method : "POST",
		data : {Common:1,getCartItem:1},
		success : function(data){
			$("#cart_product").html(data);
		}
	})
}
//Fetch Cart item from Database to dropdown menu
$("body").delegate(".qty","keyup",function(event){
	event.preventDefault();
	var row = $(this).parent().parent();
	var price = row.find('.price').val();
	var qty = row.find('.qty').val();
	if (isNaN(qty)) {
		qty = 1;
	};
	if (qty < 1) {
		qty = 1;
	};
	var total = price * qty;
	row.find('.total').val(total);
	var net_total=0;
	$('.total').each(function(){
		net_total += ($(this).val()-0);
	})
	$('.net_total').html("Total : $ " +net_total);

})
//Change Quantity end here
$("body").delegate(".remove","click",function(event){
	var remove = $(this).parent().parent().parent();
	var remove_id = remove.find(".remove").attr("remove_id");
	$.ajax({
		url	:	"action.php",
		method :	"POST",
		data	:	{removeItemFromCart:1,rid:remove_id},
		success :	function(data){
			$("#cart_msg").html(data);
			checkOutDetails();
		}
	})
})
$("body").delegate(".update","click",function(event){
	var update = $(this).parent().parent().parent();
	var update_id = update.find(".update").attr("update_id");
	var qty = update.find(".qty").val();
	$.ajax({
		url	:	"action.php",
		method :	"POST",
```

```
                data    :       {updateCartItem:1,update_id:update_id,qty:qty},
                success :       function(data){
                        $("#cart_msg").html(data);
                        checkOutDetails();
                }
        })
})
checkOutDetails();
net_total();

function checkOutDetails(){
 $('.overlay').show();
        $.ajax({
                url : "action.php",
                method : "POST",
                data : {Common:1,checkOutDetails:1},
                success : function(data){
                        $('.overlay').hide();
                        $("#cart_checkout").html(data);
                                net_total();
                }
        })
}
function net_total(){
        var net_total = 0;
        $('.qty').each(function(){
                var row = $(this).parent().parent();
                var price  = row.find('.price').val();
                var total = price * $(this).val()-0;
                row.find('.total').val(total);
        })
        $('.total').each(function(){
                net_total += ($(this).val()-0);
        })
        $('.net_total').html("Total : "+ CURRENCY+ " " +net_total);
}
page();
function page(){
        $.ajax({
                url     :       "action.php",
                method :        "POST",
                data    :       {page:1},
                success :       function(data){
                        $("#pageno").html(data);
                }
        })
}
```

```
		$("body").delegate("#page","click",function(){
		var pn = $(this).attr("page");
		$.ajax({
			url	:	"action.php",
			method :	"POST",
			data	:	{getProduct:1,setPage:1,pageNumber:pn},
			success :	function(data){
				$("#get_product").html(data);
			}
		})
	})
})
```

CHAPTER NO 6

TESTING, RESULT AND DISCUSSION

CHAPTER 6
TESTING, RESULT AND DISCUSSION

6.1 TESTING

6.1.1 TYPES OF TESTING

Manual Testing

Manual testing includes testing a software manually, i.e., without using any automated tool or any script. In this type, the tester takes over the role of an end-user and tests the software to identify any unexpected behavior or bug. There are different stages for manual testing such as unit testing, integration testing, system testing, and user acceptancetesting.

Testers use test plans, test cases, or test scenarios to test software to ensure the completeness of testing. Manual testing also includes exploratory testing, as testers explorethe software to identify errors in it.

Following are the testing techniques that are performed manually during the test life cycle:

- Acceptance Testing
- White Box Testing
- Black Box Testing
- Unit Testing
- System Testing
- Integration Testing

Automation Testing

Automation testing, which is also known as Test Automation, is when the tester writes scripts and uses software to test the product. This process involves automation of a manual process. Automation Testing is used to re-run the test scenarios that were performedmanually, quickly, and repeatedly.

Apart from regression testing, automation testing is also used to test the applicationfrom load, performance, and stress point of view.

Test Automation should be used by considering the following aspects of software:

- Large and critical projects
- Projects that require testing the same areas frequently
- Requirements not changing frequently
- Accessing the application for load and performance with many virtualusers
- Stable software with respect to manual testing
- Availability of time

6.1.2 LEVELS OF TESTING

There are four levels of testing: Unit, Integration, System and Acceptance.

1. **Unit Testing:** A level of the software testing process where individual units/components of a software/system are tested. The purpose is to validate that each unitof the software performs as designed.

2. **Integration Testing**: A level of the software testing process where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units.

3. **System Testing:** A level of the software testing process where a complete, integrated system/software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements.

4. **Acceptance Testing**: A level of the software testing process where a system is tested for acceptability. The purpose of this test is to evaluate the system's compliance with the business requirements and assess whether it is acceptable for delivery.

6.1.3 TESTING REPORT

Project:	Vintage Autoparts -Antique Automotive Parts								
Module:	Module 1: User interface								
	Module 2: Admin Page , product page, login/registration interface								
	Module 3: Payment getway portal, Cart functionality								
Prepared By:	Gaurav Shripad								
	Pankaj Bankar								
	Akash Verma								
	Aditya Wadgaonkar								
SR. NO.	TEST CASE ID	TEST OBJECTIVE	STEPS	DATA	PREREQUISTE	EXPECTED RESULT	ACTUAL RESULT	STATUS	
1	TC_LOGIN_USER	To check whether the user is authorized for application or not	1.Go to login 2.Enter correct user email and password	Username and password	NIL	After successful login, it should go to the home/product page section	It is working properly	Pass	
2	ADD_TO_CART_FUNCTIONALITY	To check whether the items selected by user are added to inventory	1.Select any product from product page 2.click on add to cart button	Product and Price	NIL	After successful adding the product, it should go to the add to cart page section	It is working properly	Pass	
3	PAYMENT_GETWAY	To check whether the items payment done by user the user is successful	1.Click on proceed to paymet button 2.fill the form and make payment	Product ,Price and user login	User must be login	After successful payment of the product it should show the successful payment page	It is working properly	Pass	
4	ADMIN_ADD_PRODUCTS	To check whether the product added by the admin is successful added	1.Click on add products 2.fill the product details 3.click on add button	Product,price, details of product, admin login	Admin must be loged in	After successful adding the product, it should go to product page at user interrface	It is working properly	Pass	

6.2 RESULTS AND DISCUSSIONS

1. USER INTERFACE:

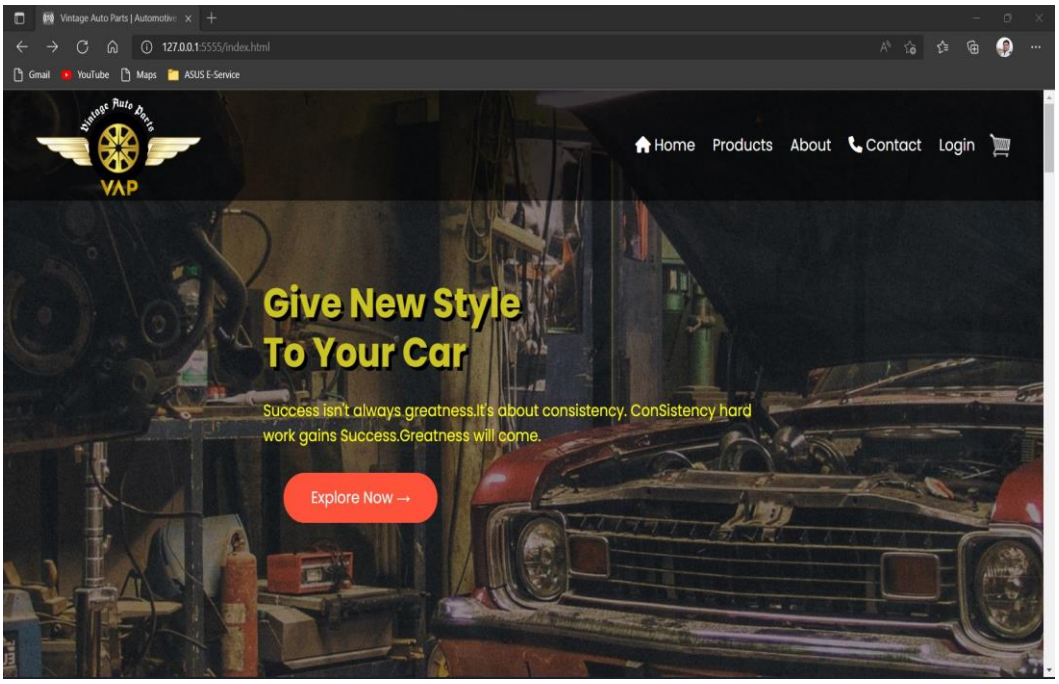

Fig 6.1(a) Home Screen

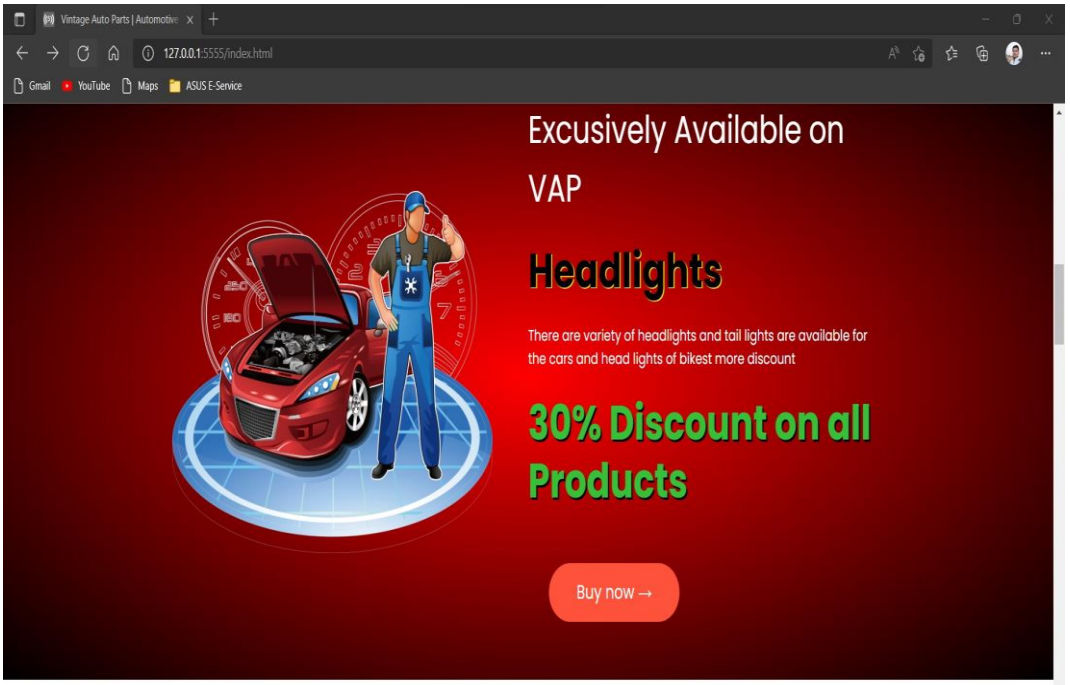

Fig 6.1(b) Home Screen

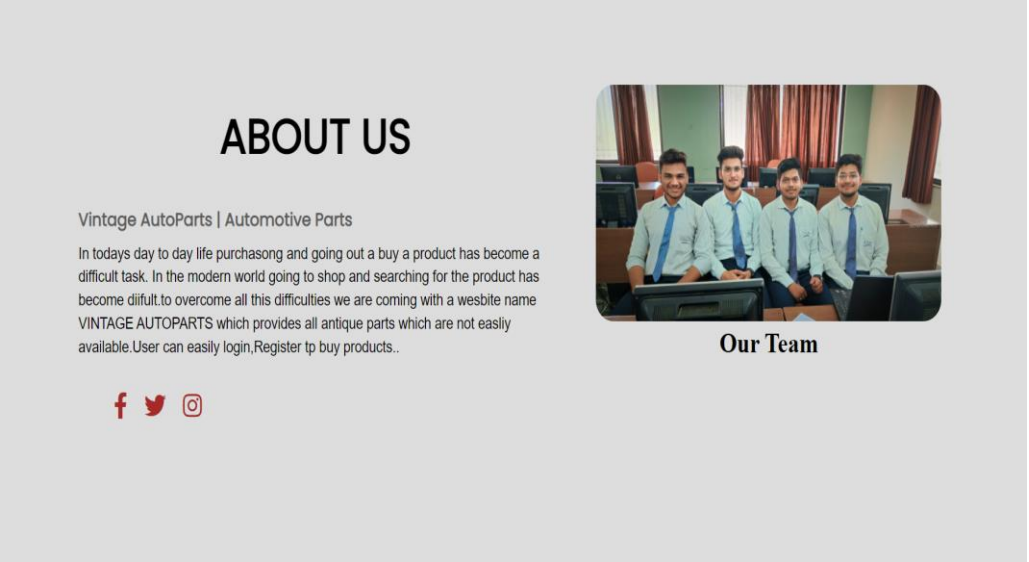

Fig 6.2(a) About Page

2. USER MODULE:

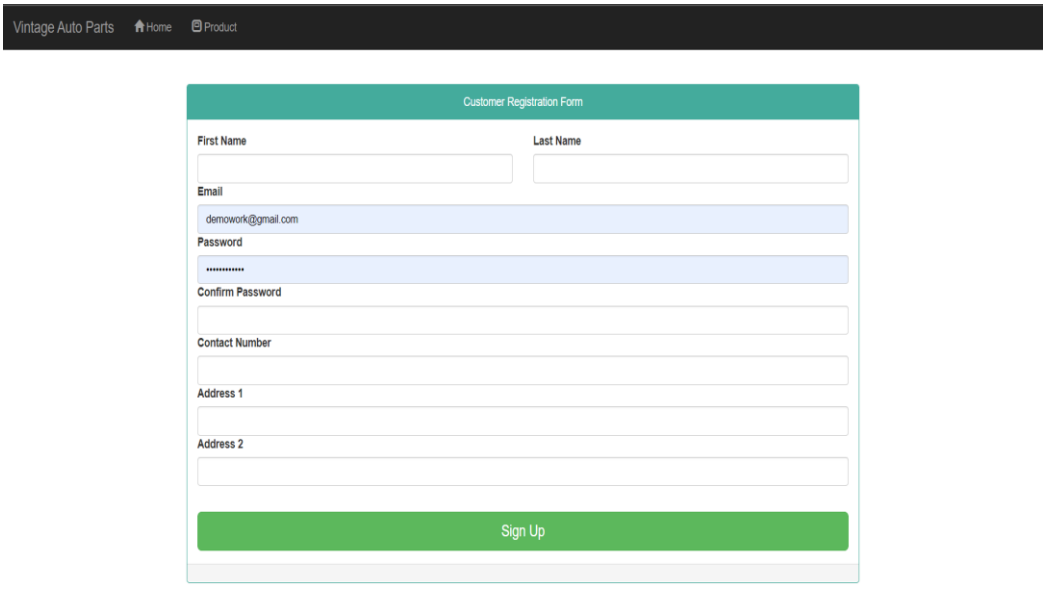

Fig 6.3 Registration Page

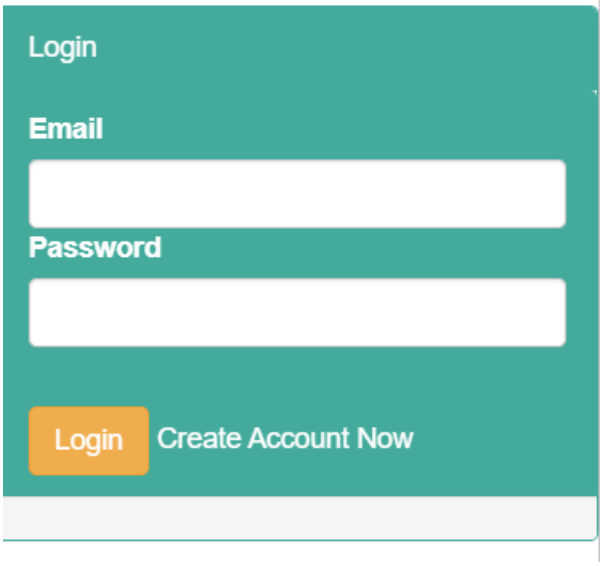

Fig 6.4 Login page

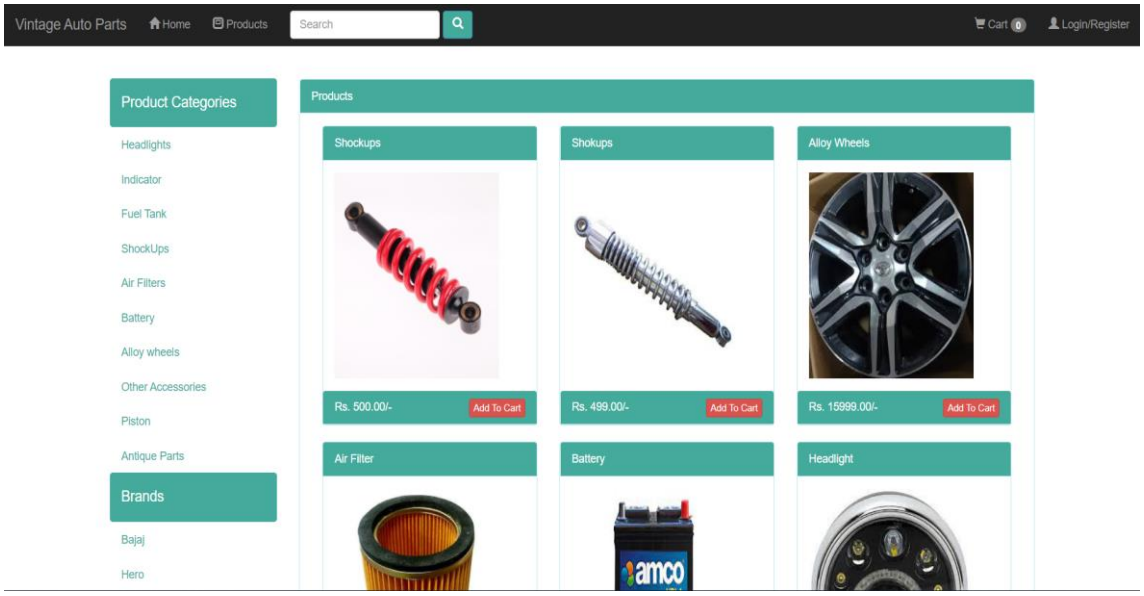

Fig 6.5 Product page

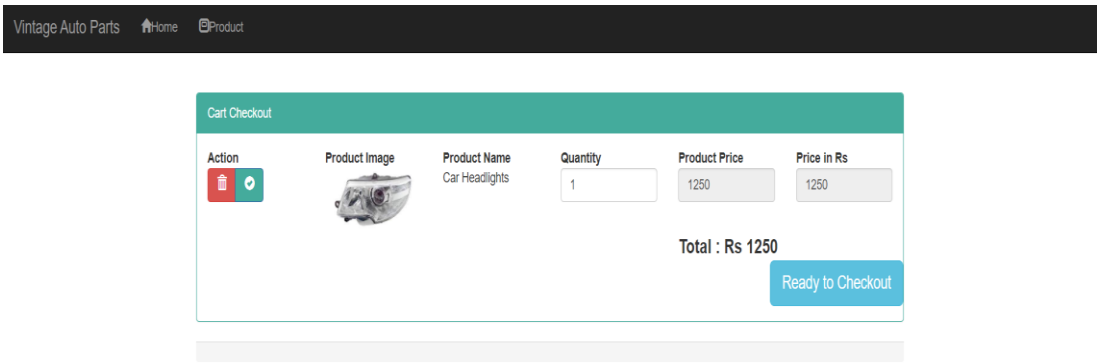

Fig 6.6(a) Cart Checkout page

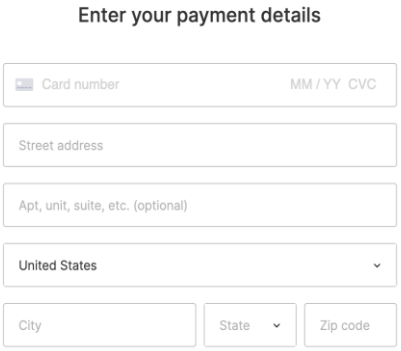

Fig 6.6(b) Cart Checkout page

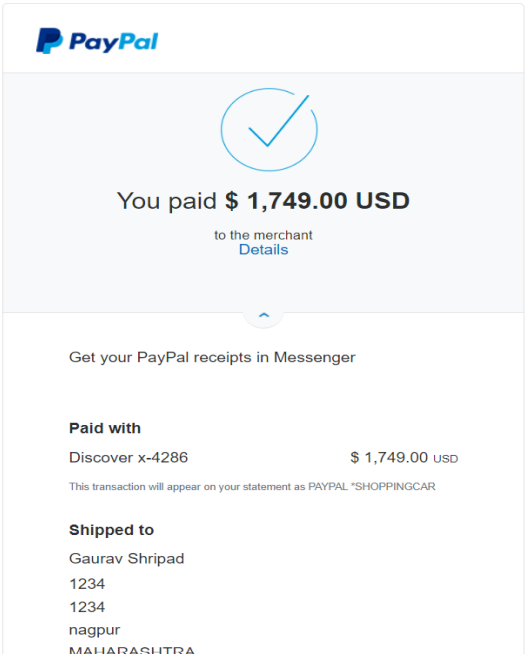

Fig 6.7 Payment Successful page

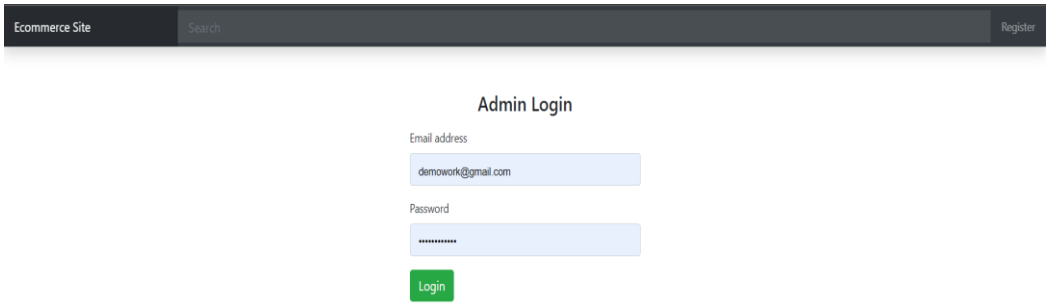

Fig 6.8 Admin Login page

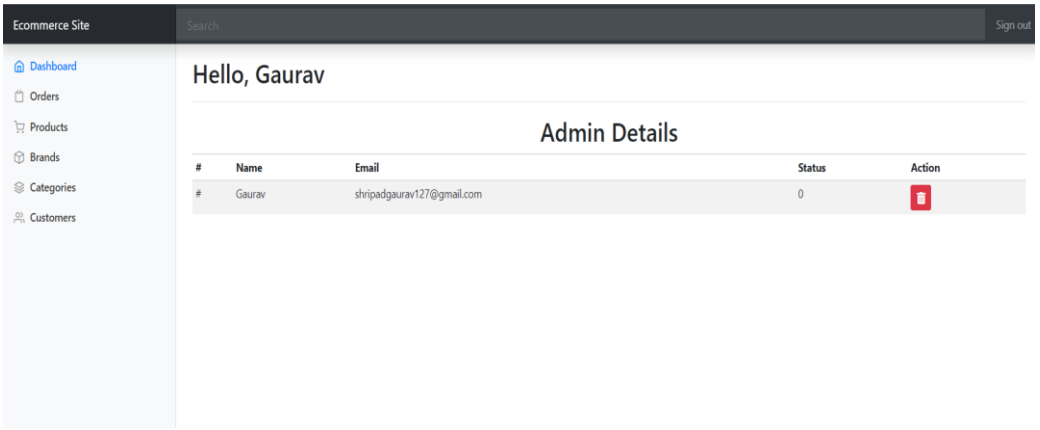

Fig 6.9 Admin Dashboard

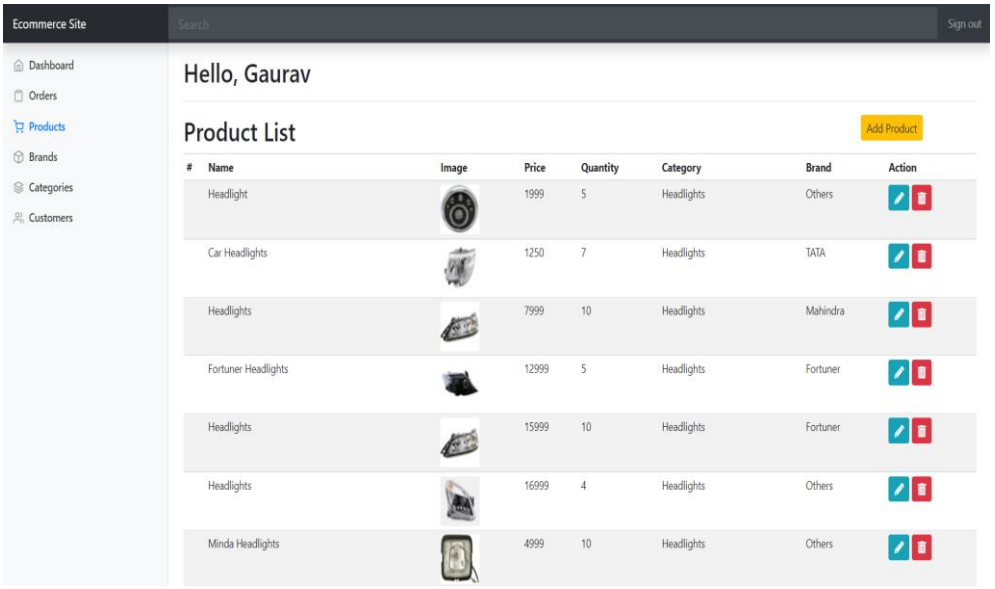

Fig 6.10 Admin Add product menu

CHAPTER NO 7

ADVANTAGES AND APPLICATION

CHAPTER 7

ADVANTAGES AND APPLICATION

7.1 ADVANTAGES

1. Store and product listing creation

A product listing is what the customer sees when they search for an item. This is one advantage in ecommerce meant for the seller. This online business plus point is that you can personalize your product listing after creating them. The best part? Creating a listing takes very little time, all you require is your product name or codes like EAN, UPC, ISBN or ASIN.

Sellers can add many images, a description, product category, price, shipping fee and delivery date. So, in just one step you can tell the customer many things about the item. Creating your listing shows the buyers what you have.

2. Faster Buying Process

Customers can spend less time shopping for what they want. They can easily browse through many items at a time and buy what they like. When online, customers can find items that are available in physical stores far away from them or not found in their locality.

3. Flexibility for customers

An important advantage of ecommerce to business is that sellers can provide flexibility to customers. One highlight is that the product and services are ready 24x7. The result is that seller can offer his item any place, any time.

7.2 APPLICATIONS

- Retail and Wholesale products.
- Online Marketing of latest products.
- Digital Advertising.
- Online Publishing

CHAPTER NO 8

CONCLUSION & FURTHER SCOPE

CHAPTER 8

CONCLUSION AND FURTHER SCOPE

8.1 CONCLUSION

In this project, we have designed a web application and completed its development by applying **engineering knowledge** which provides an approach in building a platform for easy way to shop automobile parts. It solved the common problem of high cost and lack of products in offline market. The main aim was to provide the features an interface for customers where they can easily look for Autoparts and directly buy the products at the same time we made sure that using this platform to be user friendly and simple. We have identified and **analyze the difficulties** of users and found a solution to this through our web application name as Vintage Autoparts Store. It is a web application for buying automobile easily available parts and very easy to use. The main features of this web application are that the user will be able to view and add the products as per requirement and make payment. Through Vintage Autoparts store the user can easily get parts without looking it in offline market. We have used modern tools such PHP, MySQL web framework, Java script for calculation, HTML, CSS and Bootstrap for designing user interface. During the development of the project, we understood the importance of individual and **teamwork** while **project development and management**. While showcasing our project through various seminars which helped us enhancing our **communication skills** and displayed **professional ethics** which results in **lifelong learning.**

8.2 FURTHER SCOPE

1. It can be converted from web application to an app so that it'll be easy to install and use.
2. To provide other services like car washing, services, repairing, fixing parts
3. The sales of different products can be displayed in a form of graphs.

REFERENCES

- **Websites:**
  - https://www.bigcommerce.com/articles/ecommerce/selling-auto-parts-online/
  - https://www.bytestechnolab.com/blog/building-an-online-auto-parts-store-an-overview-of-essential-features/
  - https://gomechanic.in/nagpur/

APPENDIX I

PLAGIARISM SCAN REPORT

SmallSEOTools

Result

100%

Plagiarism	Unique
0%	100%

Extra Word Count Statistics

Syllables	380	Average Sentence Length (word)	17.1
Sentences	13	Syllables Per Word(s)	1.7
Unique Word(s)	120 (54%)	Paragraph(s)	3
Average Word Length (characters)	4.8	Difficult Word(s)	70 (32%)

In modern world going out and searching for a product has become a headache work. Now a day everyone wants everything in there Instead of going out and find things. It a world where everything should not available in less time and in affordable price.

To overcome these difficulties, we are coming up with a website name VAP(Vintage Auto Parts).VAP is an Auto parts website which helps to choose a wide range of products through your desktop or smartphone rather than visiting the outlets.It is online website from were you can purchase variety of product which are not easily available in less price. The people suffering to find parts in shop and at last they get nothing in there hand this takes lot of time. Visiting to shop but not finding a appropriate parts and at last satisfying with adjustment. Our application will provide solution to all these problems by providing the users parts all this at their fingertips. Online Automobile parts Store is a web development project in which customer can easily access the website for automobile parts which are difficult to obtain. Vap is used to

APPENDIX II

Instruction Manual On

Vintage Autoparts - Antique Automotive Parts

Submitted By

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Mr. Akash Verma

Under the Guidance of

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2021-2022

1. Abstract

In modern world going out and searching for a product has become a headache work. Now a day everyone wants everything in there Instead of going out and find things. It is a world where everything is not available in minimum time and in affordable price.

To overcome these difficulties, we are coming up with a website name VAP(Vintage Auto Parts).VAP is an Auto parts website which helps to choose a wide range of products through your desktop or smartphone rather than visiting the outlets.It is a online website from where you can purchase variety of product which are not easily available in less price. The people suffering to find parts in shop and at last they get nothing in there hand this takes lot of time. Visiting to shop but not finding a appropriate parts and at last satisfying with adjustment. Our application will provide solution to all these problems by providing the users parts all this at their fingertips. Online Automobile parts Store is a web development project in which customer can easily access the website for automobile parts which are difficult to obtain. VAP is used to provide antique parts which are not easily available in the market. This website not only provides antique parts but also provide parts of different vehicles which are limited.

2. Modules Implemented

Module 1:

It consist of Login page, Registration page design, product page design, front page design as well as header footer design ,it also consist of research/survey of data, logo design, and making site responsive.

Module 2:

It consist of making product page ,its components like brands, categories, items, login, logout page, cart page, home page etc. By this component we also attached database in MySQL with the help of PHP for inserting data of brands, categories, login/logout, registration data, fetching products from database to cart, payment getaway portal also for operating fetching and inserting through admin portal.

Module 3:

It consist of payment getaway portal, making site responsive as well as Making about page of our project and testing of components made in module 1 and 2. Also it consists of making admin page which consist of all the information of customer, products, brands, categories, orders, and No. of admins.

3. SOFTWARE REQUIREMENT

1. **Operating System:** Windows 7 or Higher
2. **Web Framework:** PHP
3. **Server Side Technology:** PHP, MySQL
4. **Client Side Technology:** HTML, CSS, BOOTSTRAP, JAVASCRIPT
5. **Training Environment:** Visual Stdio Code
6. **Designing Tool:** Draw.io
7. **Testing Tool:** MS Excel

1. OPERATING SYSTEM:

Any Operating System (preferably windows 7 or higher) which is having architecture of 32-bit or higher is supported. We have used Windows 10 64-bit.

2. WEB FRAMEWORK:

PHP

PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

Features:

- **It's easy to learn and use:** One of the main reasons PHP became so commonplace is that it is relatively simple to get started with. The syntax is simple and command functions are easy to learn, meaning the barriers to entry with PHP are lower than with many other languages.
- **It's open source (and therefore free!):** This also helps developers get started with PHP - it can be installed quickly and at zero cost.
- **It's versatile:** One of the major benefits of PHP is that it is platform independent, meaning it can be used on Mac OS, Windows, Linux and supports most web browsers.
- **It's fast and secure:** Two things that every organization wants their website or application to be are fast and secure. PHP uses its own memory and competes well on speed, especially when using the newer versions.
- **It is well connected with databases:** PHP makes it easy to connect securely with almost any kind of database. This gives developers more freedom when choosing which database is best suited for the application being built.

3. SERVER SIDE TECHNOLOGY:

- **MySQL:**

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

MySQL follows the working of Client-Server Architecture. This model is designed for the end-users called clients to access the resources from a central computer known as a server using network services. Here, the clients make requests through a graphical user interface (GUI), and the server will give the desired output as soon as the instructions are matched. The process of MySQL environment is the same as the client-server model.

Features:

- MySQL is an open-source database, so you don't have to pay a single penny to use it.
- MySQL is a very powerful program that can handle a large set of functionality of the most expensive and powerful database packages.
- MySQL is customizable because it is an open-source database, and the open-source GPL license facilitates programmers to modify the SQL software according to their own specific environment.
- MySQL is quicker than other databases, so it can work well even with the large data set.
- MySQL supports many operating systems with many languages like PHP, PERL, C, C++, JAVA, etc.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL is very friendly with PHP, the most popular language for web development.

5. CLIENT SIDE TECHNOLOGY:

- **HTML:**

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Language uses tags to define what manipulation has to be done on the text.

Features:

- It is easy to learn and easy to use.
- It is platform independent.
- Images, video and audio can be added to a web page.
- Hypertext can be added to text.

- **CSS:**

Cascading Style Sheets (CSS) is a style sheet language used for describing thepresentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

Features:

- You can control the- color of the text, the style of fonts and etc.
- Variations in display for different devices and screen sizes as well as a variety ofother effects.

- **BOOTSTRAP:**

Bootstrap is a free and open-source front end development framework for the creation of websites and web apps. The Bootstrap framework is built on HTML, CSS,and JavaScript (JS) to facilitate the development of responsive, mobile-first sites and apps. Responsive design makes it possible for a web page or app to detect the visitor's screen size and orientation and automatically adapt the display accordingly.

Features:

- Easy to Begin With
- LESS as Well as CSS Files
- Easily Customizable
- Responsive Utility Classes
- Some of the components come pre-styled in Bootstrap

- **JAVASCRIPT:**

JavaScript is *an object-based scripting language* which is lightweight and cross-platform. JavaScript is not a compiled language, but it is a translated language. The JavaScript Translator (embedded in the browser) is responsible for translating the JavaScript code for the web browser.

Features:

- Object-Centered Script Language
- Client edge Technology
- Validation of User's Input
- Else and If Statement

6. TRAINING ENVIRONMENT:

- **Visual Studio Code**

Visual Studio Code (famously known as VS Code) is a free open source text editor by Microsoft. VS Code is available for Windows, Linux, and macOS. Although the editor is relatively lightweight, it includes some powerful features that have made VS Code one of the most popular development environment tools in recent times.

Features:

- VS Code supports a wide array of programming languages from Java, C++, and Python to CSS, Go, and Dockerfile.
- VS Code allows you to add on and even creating new extensions including code linters, debuggers, and cloud and web development support.
- The VS Code user interface allows for a lot of interaction compared to other text editors.
- To simplify user experience, VS Code is divided into five main regions:
    - The activity bar
    - The side bar
    - Editor groups
    - The panel
    - The status bar

Advantages:

1. Cross-platform support: Windows, Linux, Mac
2. Light-weight
3. Many users will use it or might have used it for desktop applications only.
4. Intellij-Sense

7. DESIGNING TOOL

- **Draw.io**

  Draw.io is completely free online diagram editor built around Google Drive(TM) thatenables you to create flowcharts, UML, entity relation, network diagrams, mockups and more.

  Features:

  - Collaboration Tools
  - Data Import/Export
  - Drag & Drop Interface
  - Third Party Integration

8. TESTING TOOL

For testing purpose we used MS Excel to observe the results of application.

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9. FLOWCHART

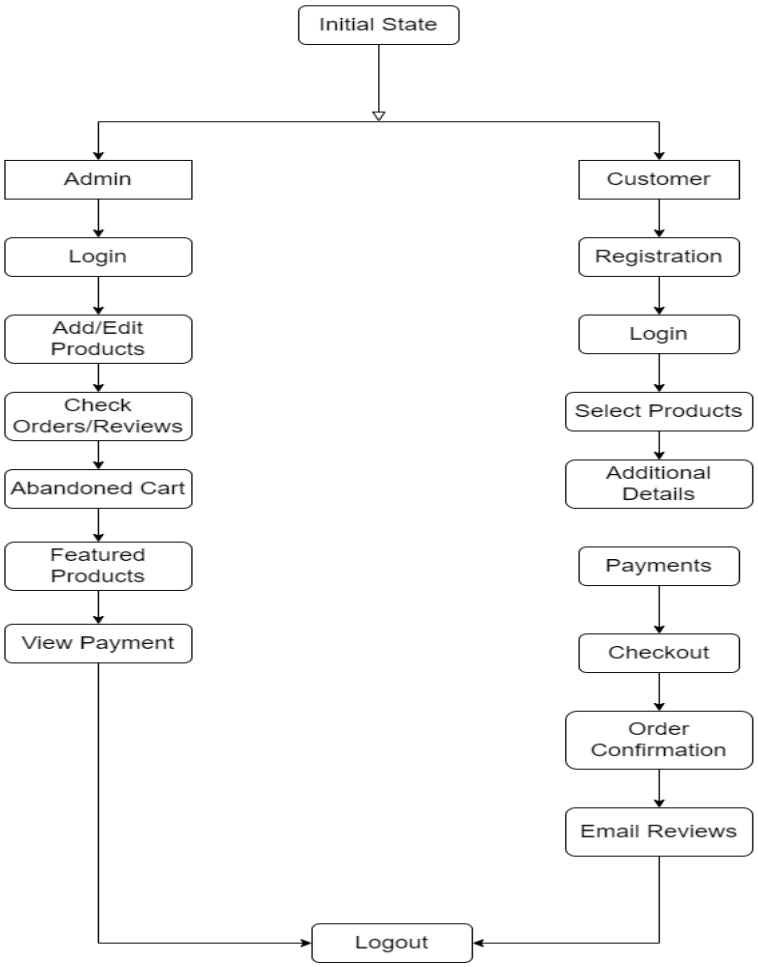

Fig Flowchart

4. Steps to Run the Project

a. Open the Web Application **Vintage Autoparts – Antique Automotive parts**
b. After opening the application, user must see home page which consist description of website.
c. After that user must, click on to the login or registration page for registration.
d. When registration is done, user can select desired product/ items from the product page.
e. For better surfing the web site has added features like sorted by brands and different categories.
f. User can even search the items from the search bar.

g. After the selection of product is done user have to click on add to cart button for further procedure.

h. At cart checkout page user can view all the items selected by the user and can also edit them.
i. After the completion of process user must to click on the checkout button where it will take to payment getaway page.
j. After filling the information and paying the price of products. The order from the user will be placed.

5. Future Scope

1. It can be converted from web application to an app so that it'll be easy to install and use.
2. To provide other services like car washing, services, repairing, fixing parts
3. The sales of different products can be displayed in a form of graphs.

6. Limitations

1. Our project is limited to website only but if gets converted to application it will be widely used.
2. It doesn't have UPI payment options currently.
3. It does not contain any tracking system for ordered products.