



INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT (IACSD), AKURDI, PUNE

Documentation On

ElectroWorld

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Centre Coordinator

ABSTRACT

ElectroWorld, we make shopping effortless and enjoyable. Discover a world of convenience at your fingertips, with a wide selection of products that cater to your every need. Our user-friendly website ensures a seamless shopping experience, even for those new to online shopping.

Browse through a curated collection of high- quality items, from fashion to electronics, all at competitive prices. We prioritize security, guaranteeing safe transactions and protecting your personal information. We value your time, so our speedy delivery service gets your purchases to your doorstep in no time. If you have any questions, our responsive customer support team is ready to assist you.

ElectroWorld where shopping is simple, secure, and satisfying. Join us today and redefine your online shopping experience.

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I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavour to a successful culmination. I extend my sincere thanks to our esteemed guide, **Mrs. Megha Mane** for providing me with the right guidance and advice at the crucial juncture sand for showing me the right way. I extend my sincere thanks to our respected **Centre Co-Ordinator Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

Kiran Fand (233045) Mandar Shetty(233050)

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1. Introduction

E-commerce, which is now an integral part of many businesses, is used primarily to boost sales revenue, to attract new customers and to survive in today's competitive business environment. Also, it has benefitted the customers as they now have easy access to a wide range of goods and services at anytime and anywhere in the world. The Marketplace provide the facility to vendors for managing their products through seller-login, while the customers will be able to order and pay for products through customer login. The admin will be able to manage vendors, products, customers and orders through admin login after the verification of seller admin can make approval of particular vendors on Marketplace. In this system only verified vendors can be able to make their profile, for each profile they have to pay for registration charges which are depends on package that they select. Furthermore, there will be an email notification after completing an order.

Problem Statement

This projects aims to develop an online shopping for customers with the goal so that it is very easy to shop your loved things from a extensive number of online shopping sites available on the web. With the help of this you can carry out an online shopping from your home. Here is no compelling reason to go to the crowed stores or shopping center's during festival seasons.. To get to this online shopping system all the customers will need to have a email and password to login and proceed your shopping. The login credentials for an online shopping system are under high security and nobody will have the capacity to crack it easily. Upon successful login the customers can purchase a wide range of things such as mobiles, books, apparel, jewellery, infant care, gifts, tools, etc. can be dispatched using online shopping system.

Scope of Project

- The proposed system helps in building a website to buy, sell products or goods online using internet connection.
- The main purpose of this marketplace is to provide platform for small vendors who don't want to invest money in creating their own online store but want to sell more.
- Sellers with dreams to sell nationwide or globally without making a huge investment can join this Marketplace platform.
- It has been seen that people mostly search for a website where they can get different services under one roof.
- This increases the demand for a multi-vendor shopping cart system that is Marketplace which helps a customer to access multiple vendor's products at a time. As of now admin can validate the vendors by visiting vender's stores manually or by calling on phone which Admin can get some information about vendors.
- In future the validation of vendors can be managed by checking their PAN numbers

Aim & Objectives

- The Marketplace ElectroWorld is Web application. It is intended to provide online solution for marketplacestaff, venders as well as consumers as one stop solution platform using internet. ElectroWorld will enable sellers to set up online store.
- Customers will be able to purchase products through virtual store. ElectroWorld would perform online businessprocess automation such as one Shopping Cart management, Order Processing, Payment Processing, Customer Relationship Management as well as Shipment.

Overall Description

Product Perspective:

2.1 Existing System:

2.

The current system for shopping is to visit the shop manually and from the available product choose the item customer want and buying the item by payment of the price of the item . 1. It is less user-friendly .Many customers go for purchasing offline so as to examine the product and hold the possession of the product just after the payment for the product .In this contemporary world customers loyality depends upon the consistent ability to deliver quality value and satisfaction .

Limitation of Existing System

- Time Consuming
- Shipping Rates
- Refunds/Return Disputes
- Lack of options
- Cash -Back offers not present
- Bad Customer service

Proposed System:

To remove all disadvantages of coventional methods a system is proposed which is an online Shopping.

The purpose of Online Shopping is to save time save money . Through online shopping one can save his valuable time .One can watch and select things he wants to buy Through online shopping we can save our money because prices are less than market prices and we receive our brought things at our home.No need to go anywhere and do shopping We can Different variety of things online and we can choose which one can want

Operating Environment:

Server side

Hardware Interfaces.

- Processor: Intel i3 processor or above.
- RAM: 2 GB or above.
- HD: 20 GB or above.

Software Interfaces

The following are needed requirements:

- Operating System: UNIX, Linux, Mac, Windows etc...
- Development tool :
 - o Front end→ REACT, Bootstrap
 - o Backend→ Spring-Boot
 - o Data Base → MySQL

Client Side (minimum requirement):

• **Processor:** Intel Dual Core

• **HDD:** Minimum 80GB Disk Space

• RAM: Minimum 1GB

OS: Windows 7. Linux

3. Requirement Specification

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

OS: Windows 7, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Functional Requirements

Login of Admin

- o The system will allow the Admin to view the details of Seller as well as add and remove them.
- o The system will allow the Admin to view the Customer's order.

Login of Seller

- o The system will allow the Seller to add/edit/remove the products
- o The system will allow the Seller to display their product on homepage

Login of Customer

- o The system will allow Customer to add/remove products to his cart
- o The system will allow the Customer to view his/her order summary
- o The system will allow the Customer to view the product on homepage without login

Non-functional Requirements

Performance Requirements

Non-functional requirements are an essential part of any software project, including e-commerce applications. They define the quality attributes and constraints that the software must meet to provide a satisfactory user experience and ensure the system's overall performance, security, and maintainability. Here are some non-functional requirements that are important for an e-commerce software:

- 1. **Performance**: The system shall support a minimum of X concurrent users browsing and shopping simultaneously. Page load times for product listings and checkout shall not exceed X seconds. Response times for search queries and user interactions shall be within X milliseconds. The system shall handle peak traffic loads during special events (e.g., sales, holidays) without degradation in performance.
- 2. **Scalability**: The architecture shall be designed to easily scale horizontally to accommodate increased user demand. The system shall be able to handle a 20% growth in user base annually for the next three years.
- 3. **Availability and Reliability**: The system shall have an uptime of at least 99.9%. The recovery time for system failures shall not exceed X minutes. Redundancy and failover mechanisms shall be in place to ensure continuous operation in case of server or component failures.
- 4. **Security**: User authentication and authorization shall be implemented securely to prevent unauthorized access. Payment transactions shall be encrypted using industry-standard security protocols. Personally identifiable information (PII) and payment information shall be stored and transmitted securely.
- 5. **Usability and User Experience:** The user interface shall be intuitive and easy to navigate, ensuring a positive user experience. The system shall be accessible to users with disabilities, complying with relevant accessibility standards.
- 6. **Compatibility:** The application shall be compatible with commonly used web browsers (e.g., Chrome,

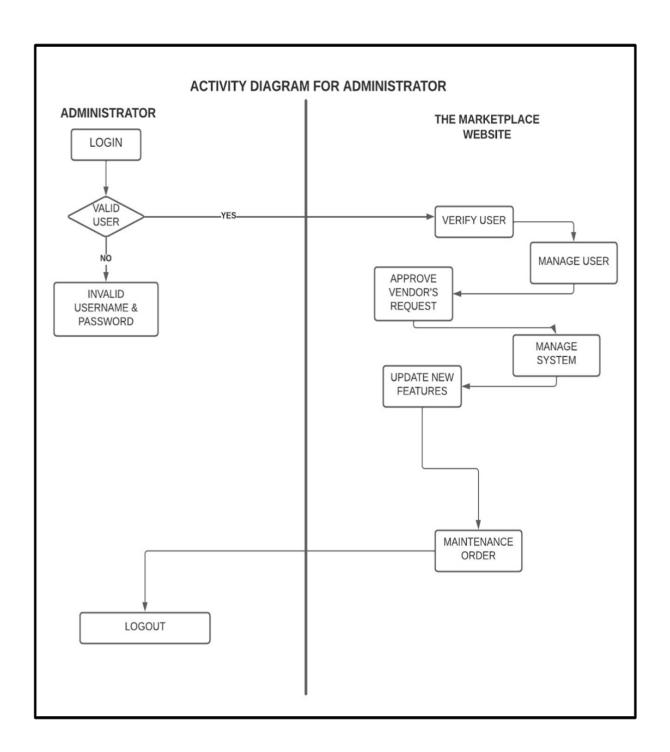
Firefox, Safari) and mobile devices (iOS and Android).

- 7. **Compliance**: The system shall comply with relevant data protection regulations (e.g., GDPR, CCPA). Payment processing shall comply with Payment Card Industry Data Security Standard (PCI DSS) requirements.
- 8. **Maintainability:** The codebase shall follow coding standards and best practices to ensure ease of maintenance. Documentation shall be provided for the system architecture, codebase, and deployment processes.
- 9. **Performance Testing**: The system shall undergo load testing to verify its performance under different traffic conditions. Stress testing shall be conducted to determine the system's breaking point and response during high loads.
- 10. **Data Management**: Data integrity and consistency shall be maintained during high traffic and concurrent usage. Backup and recovery mechanisms shall be in place to prevent data loss.
- 11. **Internationalization and Localization**: The system shall support multiple languages, currencies, and regions to cater to a global user base.
- 12. **Disaster Recovery**: The system shall have a disaster recovery plan in place to restore functionality in case of catastrophic events.
- 13. **Monitoring and Reporting:** The system shall provide comprehensive logs and monitoring tools to track system health and performance. Reports and analytics shall be available to analyze user behavior, sales trends, and other key metrics.

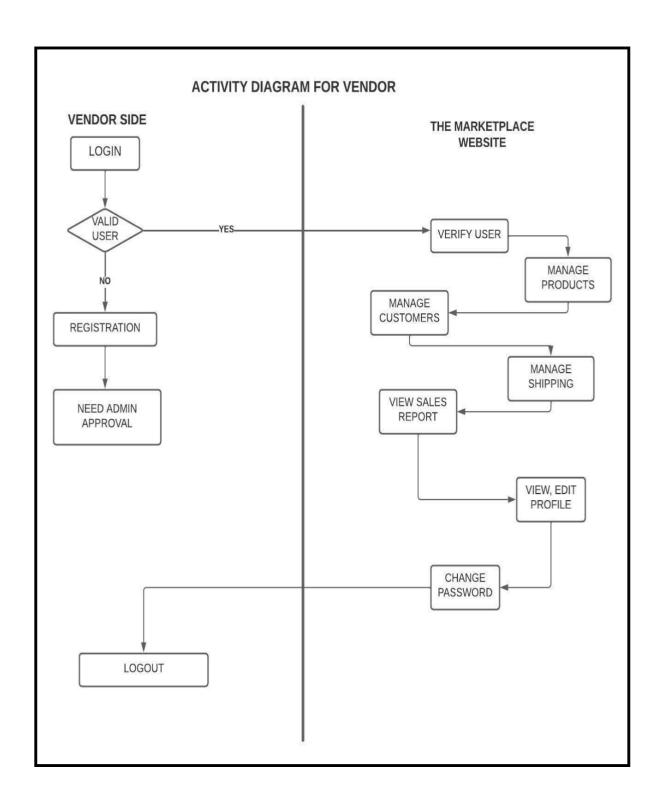
System Design:

1) Activity Diagram: -

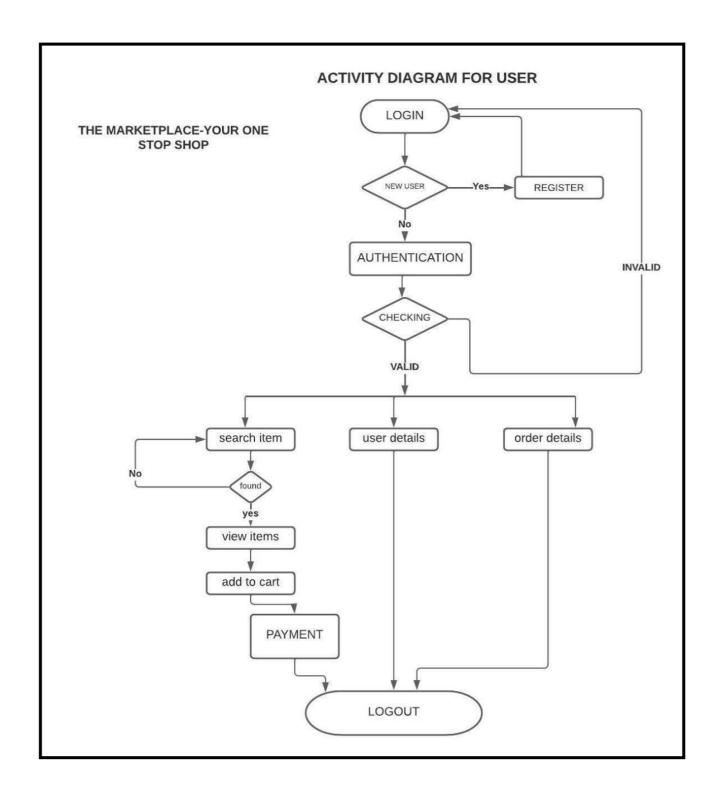
Activity Diagram for Admin



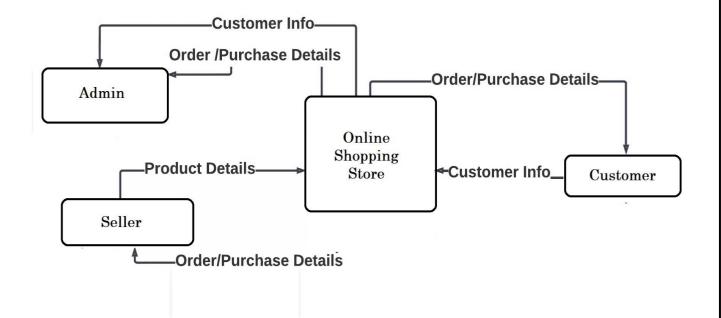
Activity Diagram for Seller



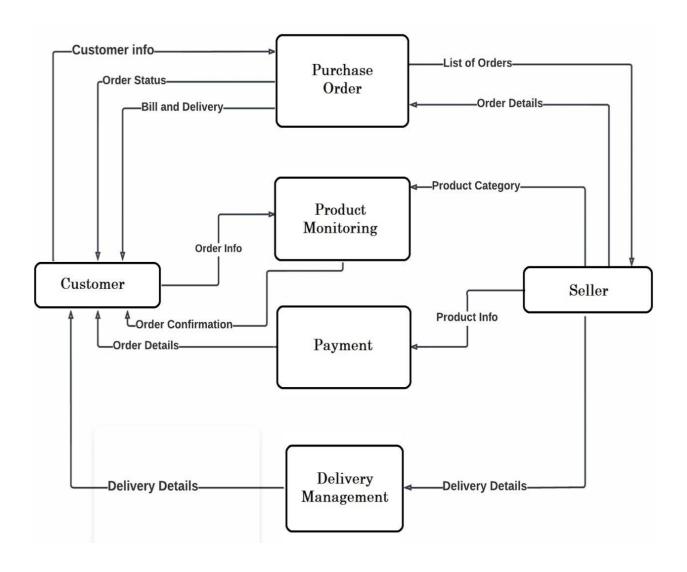
Activity Diagram for User/Customer



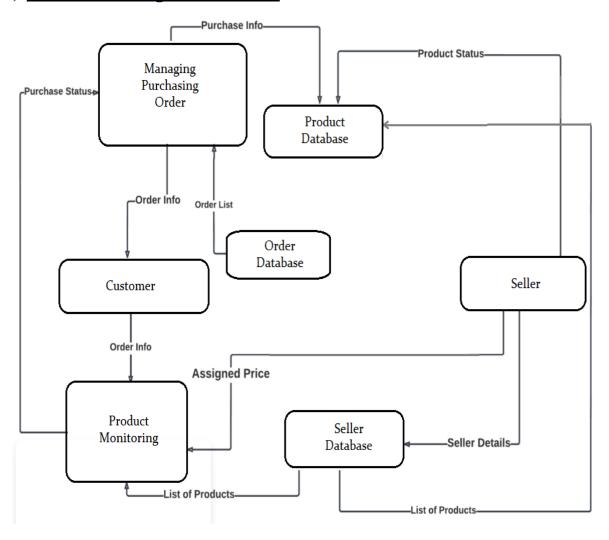
1) <u>Data Flow Diagram: level 0</u>



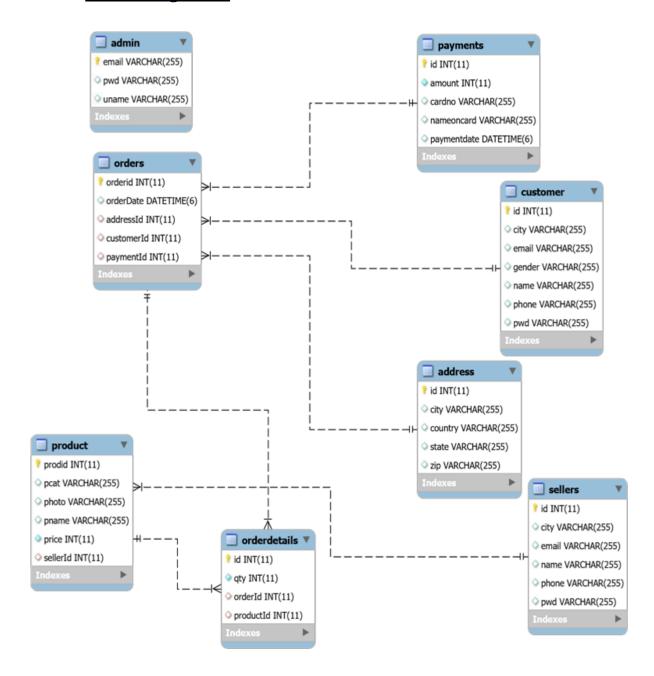
2) <u>Data Flow Diagram: level 1</u>



3) Data Flow Diagram: level 3



Class Diagram:-



Use Case Diagram: -

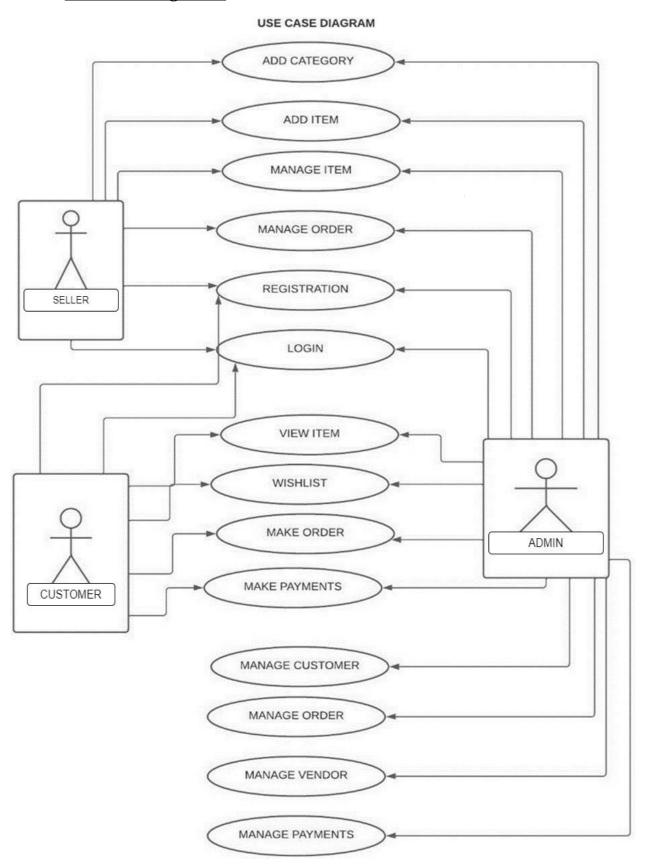


Figure : Use Case diagram

ER DIAGRAM:

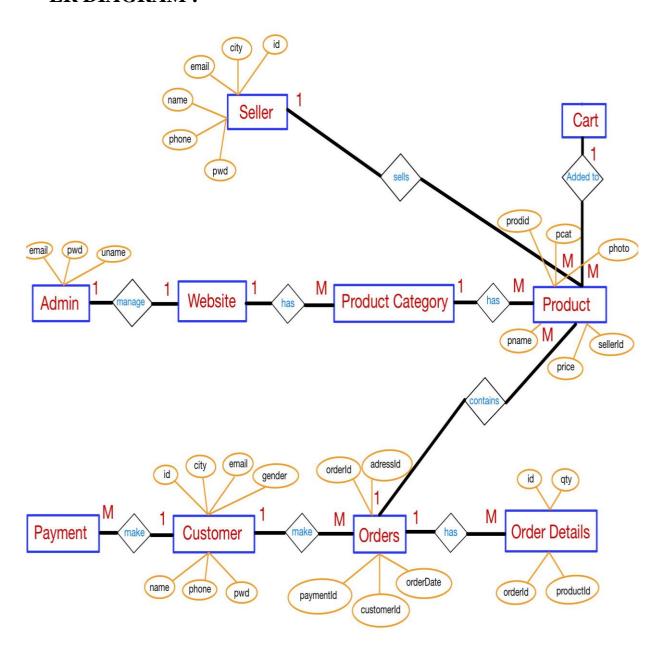


Table Structure

Admin:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
<u>email</u>	varchar(255)	NO	PRI	NULL	
pwd	varchar(255)	YES		NULL	
uname	varchar(255)	YES		NULL	

Sellers:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
id	int	NO	PRI	NULL	Auto_increment
city	varchar(255)	YES		NULL	
email	varchar(255)	YES	UNI	NULL	
name	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
pwd	varchar(255)	YES		NULL	

Customer:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
id	int	NO	PRI	NULL	Auto_increment
city	varchar(255)	YES		NULL	
email	varchar(255)	YES	UNI	NULL	
gender	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
pwd	varchar(255)	YES		NULL	

Product:

<u>Field</u>	<u>Type</u>	Null	<u>Key</u>	<u>Default</u>	<u>Extra</u>
prodid	int	NO	PRI	NULL	Auto_increment
pcat	varchar(255)	YES		NULL	
photo	varchar(255)	YES		NULL	
pname	varchar(255)	YES		NULL	
price	int	NO		NULL	
sellerId	int	YES	MUL	NULL	

Address:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
id	int	NO	PRI	NULL	Auto_increment
city	varchar(255)	YES		NULL	
country	varchar(255)	YES		NULL	
state	varchar(255)	YES		NULL	
zip	varchar(255)	YES		NULL	

Orders:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
orderid	int	NO	PRI	NULL	Auto_increment
orderDate	Datetime(6)	YES		NULL	
addressId	varchar(255)	YES	MUL	NULL	
customerId	int	YES	MUL	NULL	
paymentId	int	YES	MUL	NULL	

Order Details:

<u>Field</u>	<u>Type</u>	<u>Null</u>	<u>Key</u>	<u>Default</u>	<u>Extra</u>
id	int	NO	PRI	NULL	Auto_increment
qty	int	NO		NULL	
orderId	int	YES	MUL	NULL	
productId	int	YES	MUL	NULL	

Conclusion

The proposed system helps in building a website to buy, sell products or goods online using internet connection. The main purpose of this marketplace is to provide platform for small vendors who don't want to invest money in creating theirown online store but want to sell more. Sellers with dreams to sell nationwide or globally without making a huge investment can join this Marketplace platform.

It has been seen that people mostly search for a website where they can get different services under one roof. This increases the demand for a multi-vendor shopping cart system that is Marketplace which helps a customer to access multiple vendor's products at a time.

Future Scope

- Our designed online shopping store provides a 24×7 service, that is customers can surf the website, place orders anytime they wish to. Also, the delivery system works 24×7 hours a week. Some of the features that can be modified and added to this system in the future involve its implementation by local shopkeepers, where shops will be providing an online interface to customers for shopping and placing orders.
- Then some delivery persons can perform their work. This will be adding on benefit for the customers as it will save their time, plus it adds on for the shopkeepers also, as people will continue to shop from local shops rather than preferring to supermarkets every time.
- Also, since the deliveries from these local vendors will not be as time-consuming as these days Flipkart, Amazon, etc. take but rather will be delivered the same day of an order placed. Else the shopkeeper can ask the customer that the product will be available by the next day, so if he/she still wants to place the order, it can be done.
- Again, return or exchange will be easy since the delivery boy can even do it as the store is nearby. Including a chat box for public benefit is also a great idea via which people can directly have a conversation with some officials regarding any type of queries.

REFRENCES:

Websites

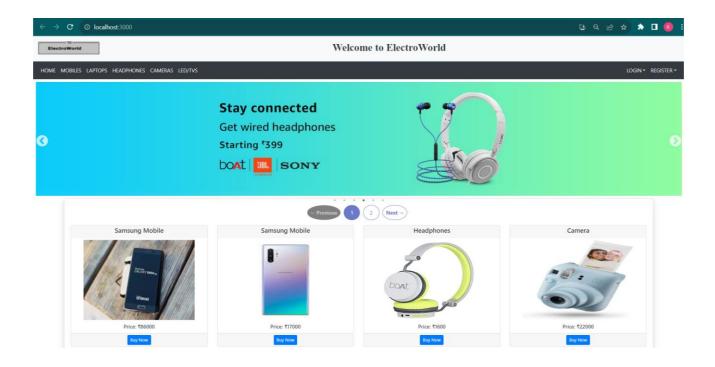
- ✓ http://en.wikipedia.org/wiki/Online_shopping#Advantages
- ✓ http://www.w3school.com
- ✓ http://www.google.com
- ✓ http://www.E-Commercetimes.com/perl/story/18403.html

Books

- ✓ Core Java 2 I and II, by Cay S. Horstmann and Gary Cornell
- ✓ The Complete Reference JSP 2.0 by Hanna
- ✓ Beginning JavaScript 2nd Edition, by Wilton
- ✓ The Complete Reference SQL
- ✓ The Complete Reference HTML

Project Design

Home Page

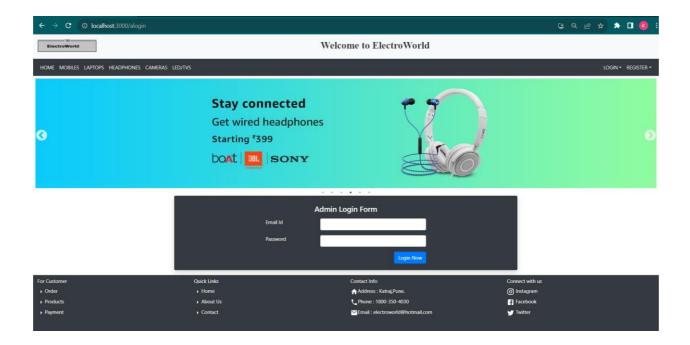


Header

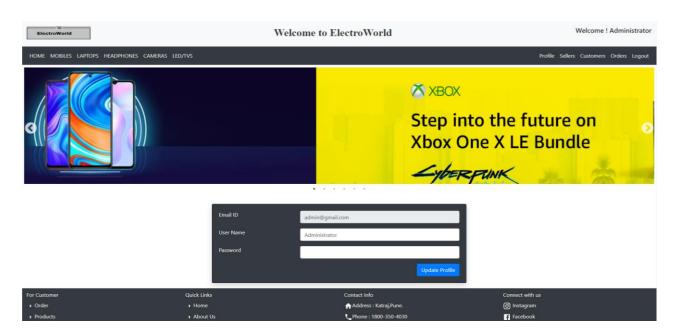


Admin Side:

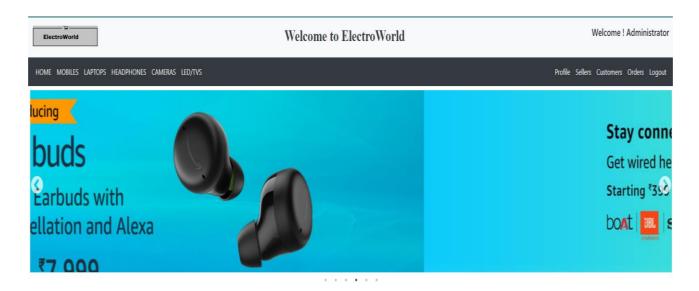
Admin Login:



Admin profile:



All Sellers:



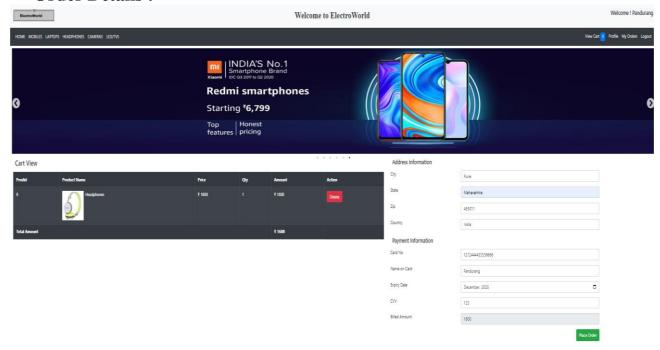
ld	Name	City	Phone	Email Id	Action
2	Kiran Fand	Pune	9595959595	k@gmail.com	Delete
3	Ganesh	Pune	8665363645	ganesh@gmail.com	Delete
4	Rushikesh	Satara	7874575458	rushi@gmail.com	Delete
5	Jonathan	Pune	8689746521	jonathan@gmail.com	Delete
6	Rahul	Pune	9823654565	rahul@gmail.com	Delete

All Customers:



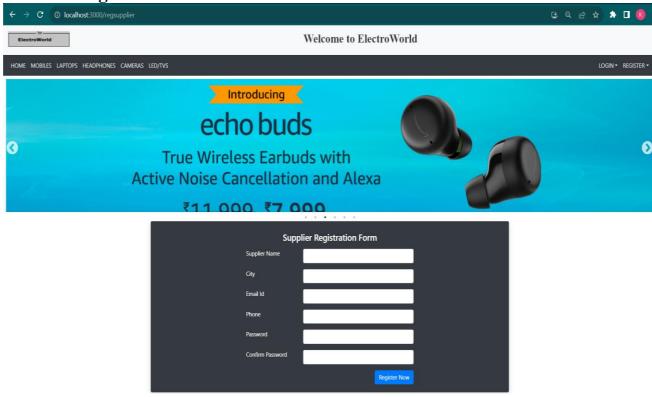
Name •	City	Gender	Phone	Email Id
Aman	Pune	Male	7507323368	aman@gmail.com
saurabh	pune	Male	9823090545	saurabhwadekar24@gmail.com
Jack	Pune	Male	7546589865	jack@gmail.com
Pandurang	PCMC	Male	8652312367	pandurang@gmail.com
Umesh	Pune	Male	7645689512	umesh@gmail.com

Order Details:

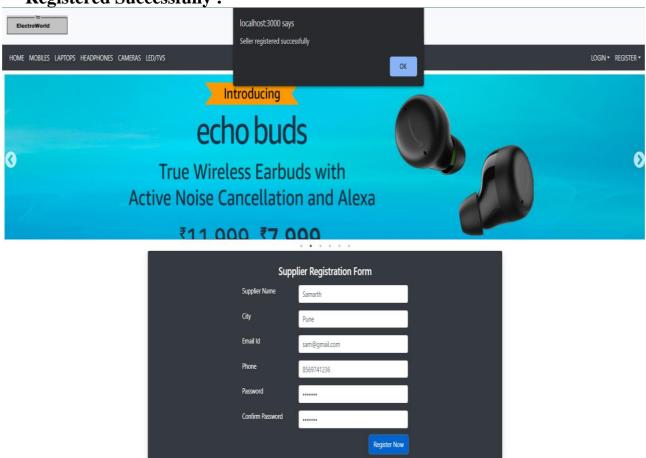


Seller Side

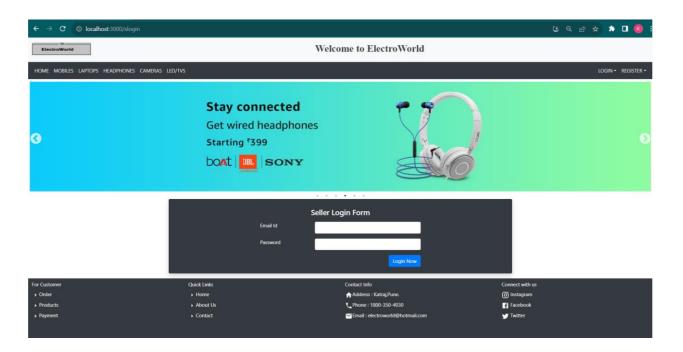
Seller Registration form:



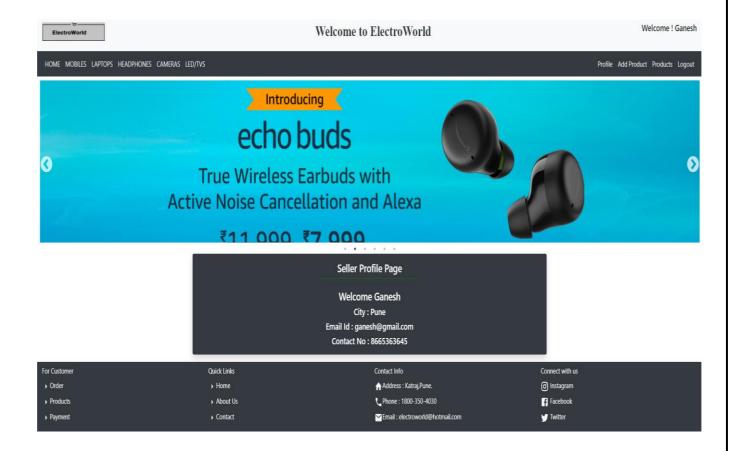
Registered Successfully:



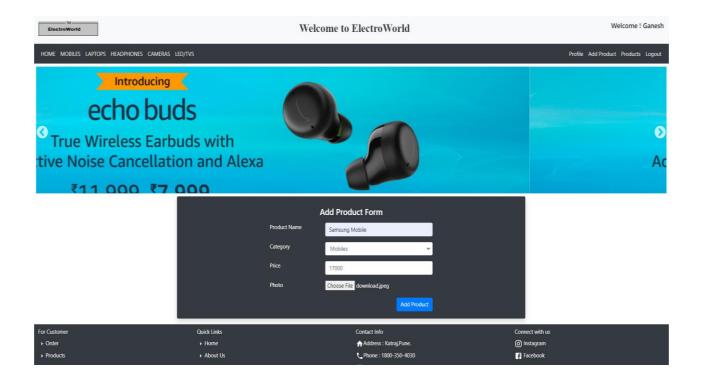
Seller Login:



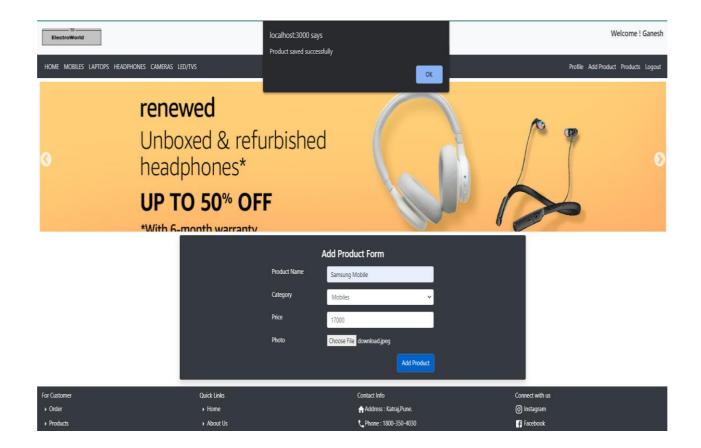
Seller Profile:



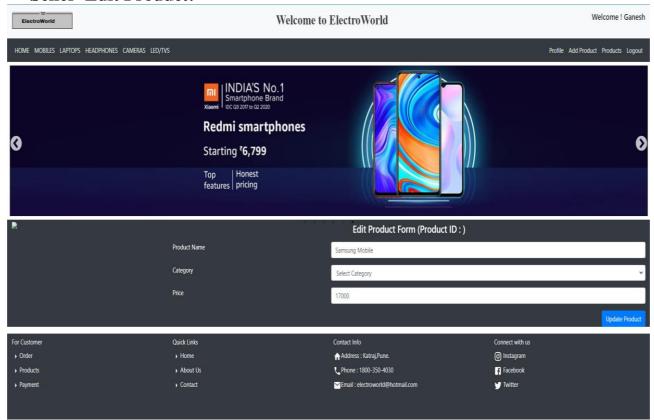
Seller can Add Products:



Product saved:

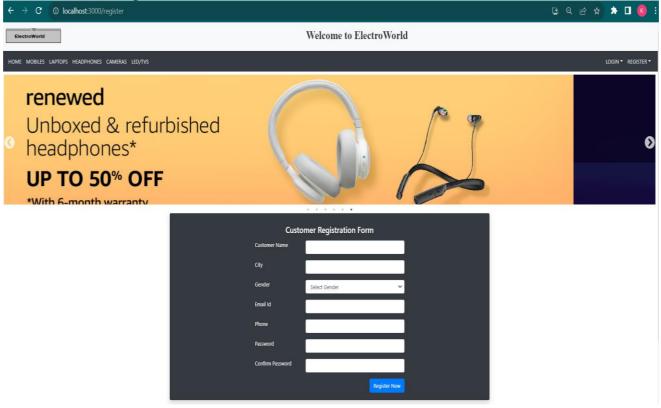


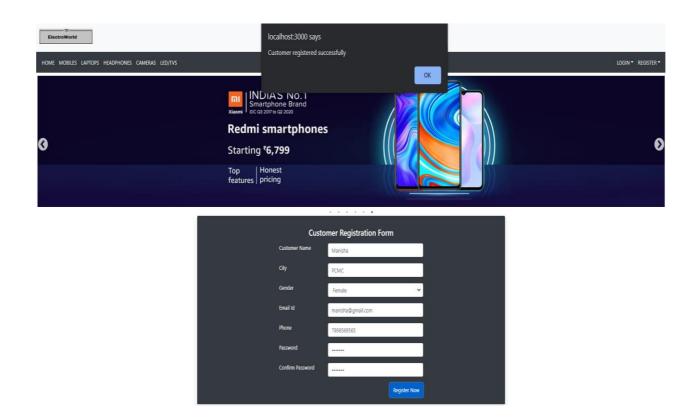
Seller Edit Product:



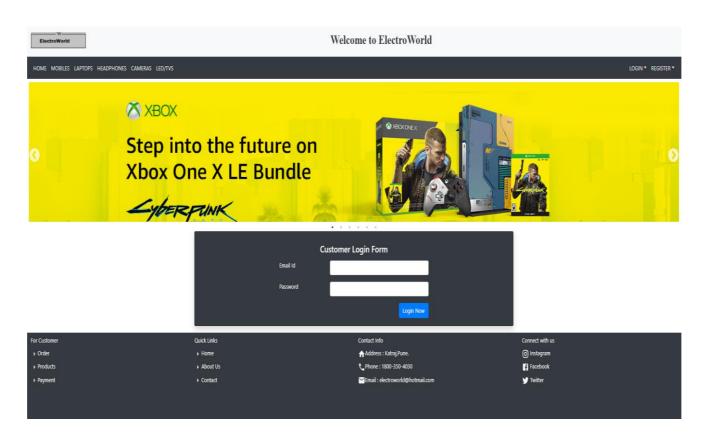
Customer Side

Customer Registration :

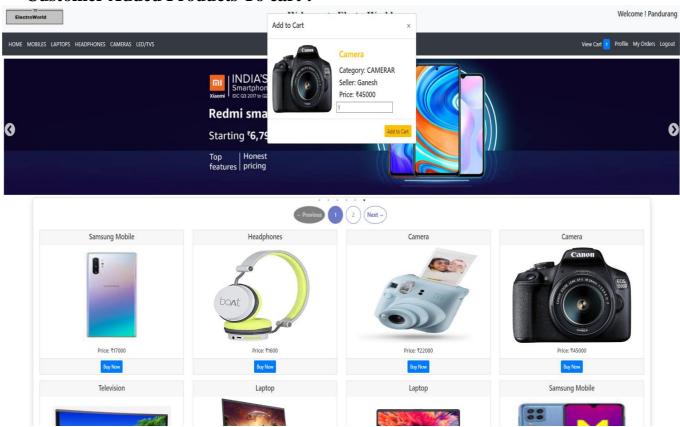




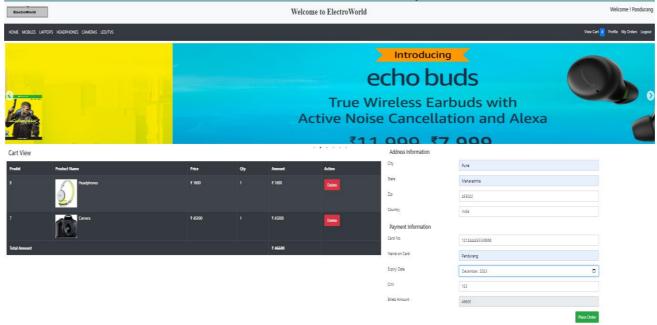
Customer Login:



Customer Added Products To cart:



Cart view, Address And Payment



Placed Order:

