

# WEBSITE TO SELL CHEMICALS AND LAB INSTRUMENTS

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**Abstract** - India is a developing country. Information and Technology are playing an important role in the development of the country. E-Commerce is basically the electronic buying and selling of goods online. Ours is also an ecommerce site that sells chemicals and lab instruments. If you own a small business, an e-commerce website is a good way to create an online presence. Many E-Commerce websites being multi-vendor websites, we prefer to keep it simple by designing a single-vendor website. So the shop owner can sell his goods through local as well as cyber shopping. Our website is a general-purpose e-commerce store that is developed using HTML, PHP and JavaScript.

**Key Words:** Chemicals, Lab instruments, E-Commerce.

## 1. INTRODUCTION

E-commerce is fast gaining business in the online world. The newer businesses are emerging, the more there is arising a need to create their online presence.

The objective of this project is to develop a general purpose e-commerce store for chemicals and lab instruments so that users find the comfort of home through the Internet.

Any member can register and view available products. Contact Us page is available to contact Admin for queries. There are two roles available:

- User and Admin. User can view and purchase products.
- An Admin has some extra privilege including all privilege of user.
- Admin can add products, edit product information and add/remove product.
- Admin can add user, edit user information and can remove user.
- Admin can ship order to user based on order placed by sending confirmation mail

## 2. DETAILED PROBLEM DEFINATION

If a person needs to know the price of a chemical or check the availability of any chemical or Laboratory equipment than the person needs to go physically there and check it. Because of this website the efforts of the customer gets reduces the customer can check the rate of any chemical and laboratory related product online and can order it to.

## 3. EXISTING SYSTEM

One of the best ways to earn money online is through online buying and selling of goods. A very few websites sell chemicals online. Our being one is a single vendor ecommerce. Other websites are owned by big chemical making companies. But this is what makes our website an exception.



**Fig -1:** Chemicals

## 4. MARKET SURVEY

The major industrially and functionally significant chemical product categories include inorganic and organic chemicals, ceramics, polymers, elastomers, surfactants, acids, oleo chemicals, alcohols, dyes, bases, salts, alkalis, oils, colorants, esters, coatings, solvents, neutral gases, petrochemicals, process gases and source gases. Specialty chemicals are supplied from the oil and gas sector, while other chemicals are sourced from uncultivated biomass, agriculture, mining, industrial chemical synthesis reaction and even water. Various chemical synthesis and production a process are combined through associated chemical inputs and outputs hence many producers of chemicals also represent consumers.

Total global shipments of chemicals and chemical products represent trillions of dollars annually and are represented by industries in practically every country of the world.

There can be no argument that 2010, punctuated by pricing volatility and uncertainty, has proven a pretty tricky year for the petrochemical industry. 2011 is one of the difficult years to forecast for some time, particularly following the marked recovery in the industry's fortunes in 2010. While global recession and higher than forecast demand particularly in China have brought the low cost Middle Eastern product in to Europe.

## 5. ARCHITECTURE

The proposed system is implemented using Client-Server Architecture. The system architecture is shown below:

As shown above the system is divided into two Modules,  
 1. Frontend Server: The frontend server handles the interaction of the website components with the user. It takes requests from the customer, sends it to the backend database.

2. Database and Backend Server: The Database contains information about the users, records of the orders and the location of delivery, etc.

## 6. WORKING

The Use Case diagram given below shows the working of the System.

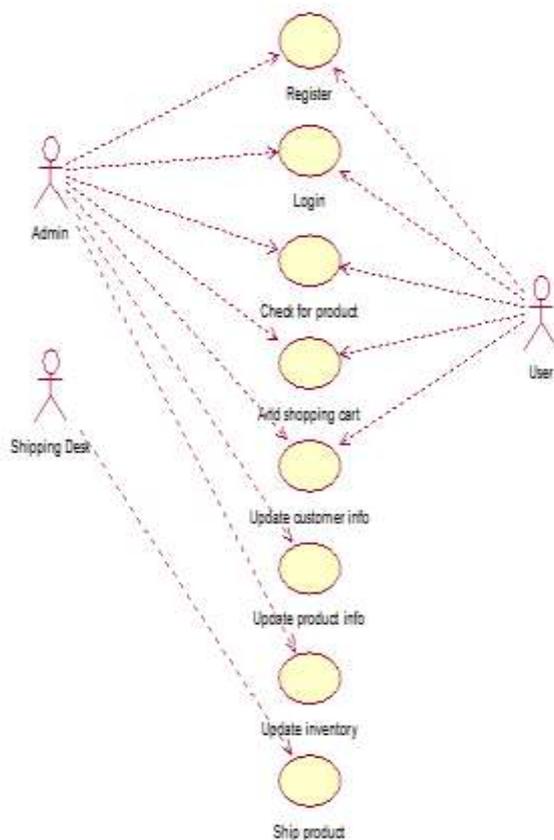


Fig -2: Use Case Diagram

The Customer logs in or registers into the website and may view the chemicals or instruments; also they could order a product. Also the admin can add products, remove products. The admin can access all recent orders, their invoices and many more. Our E-Commerce being a single vendor website, can be trusted on the quality of the product.

## 7. CONCLUSION

The project to make chemical E-Commerce websites is made to make enter chemical companies enter into world of E-Commerce, who wants to expand their business through web. So in order to fulfill these requirements, we need to build a website in which we place different chemical and laboratory products which user can select and buy as per their needs.

## 8. REFERENCES

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