



e-ISSN:2582-7219



# INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY

Volume 7, Issue 7, July 2024



INTERNATIONAL  
STANDARD  
SERIAL  
NUMBER  
INDIA

Impact Factor: 7.521



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# E Commerce Food Product Sales

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**ABSTRACT:** E-commerce is a process of buying and selling of products or services, making money transfer and transferring data over electronic medium. Ecommerce has evolved to make products easier to discover and purchase through online retailers and marketplaces. Food Products sector is the largest retail category. There are many leading food ecommerce sites available in the market, which leads to high competition among food retailers. Online food retailers face many problems like coming new trends, food quality, etc. because of this the sales graphs fluctuates. Hence there is a wide need for sales prediction system. And that's exactly the problem companies struggle with collecting data. To overcome this problem, we have proposed an ecommerce food products sales forecasting system which helps by maintaining the previous sales data and on the basis of previous sales it predicts the upcoming year sales. There are 2 modules in this sales forecasting software namely, Admin and User. Admin can add products and view products; list of users and users order and view the generated sales predictive analysis report. Users can view the products added by admin, he/she can add products to cart for buying purpose. He/she can track the order and view the previous order history.

**KEYWORDS:** Machine learning, food Products, Support Vector Machine, Sales Forecasting

## I. INTRODUCTION

The goal of this project is to use Python to build a stable online food sales platform. Customers and administrators will be served by the same platform, which offers a smooth way to browse products, add items to cart, place orders, and securely process payments. It will be possible for users to create an account, safely log in, and edit their profiles. In order to facilitate effective product discovery, product listings will provide all the necessary information, including name, description, price, and photos, along with search and filter options. Prioritizing the user experience, a responsive design strategy will guarantee accessibility across several devices. To ensure seamless backend operations, administrators will have access to an easy-to-use dashboard for managing user accounts, client orders, and inventory. Secure transactions will be ensured by payment integration using services such as Stripe API. Features that improve user pleasure and engagement include order monitoring, customer feedback, and ratings. The project will use SQLite or PostgreSQL for database administration and Python frameworks like Django or Flask for backend development. HTML, CSS, and JavaScript will be used in frontend development; frameworks like React or Vue.js may also be used for a dynamic user interface. Cloud platforms like Heroku or AWS will be used for deployment, with an emphasis on scalability and dependability. Participants in this project will learn fundamental components of e-commerce functionality, security protocols, and user-centric design concepts while gaining hands-on experience in full-stack web development.

## II. LITRATURE SURVEY

### 2.1 EXISTING SYSTEM:

Entrepreneurs of all stripes can launch a business with ease. Additionally, a lot of unreliable websites waste users' money. The quality of the goods is not guaranteed. Unpredictable consequences on the overall processes can result from mechanical failures. Customer loyalty is always being evaluated because there is little possibility of direct customer-company contact.

The main factor propelling e-commerce's success is its ease of use. Even if online shopping is a quick and simple process, some people would rather utilize technology sparingly. They view the internet as a resource for learning more about products before making a purchase at a store. A concern shared by some is that they could develop an addiction to internet buying. Shipment delays are caused by protracted periods and improper inventory management. Even if



choosing, purchasing, and paying for an online purchase might not take longer than fifteen minutes, it takes one to three weeks to deliver the product to the customer's door. The consumer becomes irate and refrains from making online purchases as a result.

## **2.2 PROPOSED SYSTEM:**

Business organizations have shifted from the old method of selling items to the electronic method due to the rapid rise of technology. The internet is the primary means by which business entities carry out business transactions. Consumers can order products while lounging in their homes or offices.

Customers may shop more conveniently and easily thanks to the internet. Additionally, cancelling the transactions is simple. In order to entice consumers to shop online, marketers provide expedited purchasing and selling processes in addition to easily accessible merchandise. 24/7 purchasing and selling. Discounts are offered to customers without requiring them to physically move around in order to choose products from various sources. Retailers can offer products at appealing discounts online because maintenance and real estate costs are eliminated.

Large online retailers occasionally provide store comparisons. Consumers can order products while lounging in their homes or offices.

## **III. SYSTEM REQUIREMENT SPECIFICATION**

### **3.1 ACCESSORS**

#### **3.1.1 Client Meaning:**

We might endeavor to foster a structure for safeguarding device information for information transmission and gathering within our undertaking . That's a fundamental and successful coder. Along these lines, anybody with a simple handle of client abilities and capacity ideas can use it. In our undertaking, we sort out a clever a theory known as gadget authority, it is employed to decipher records. then making a technique to switch off the contraption. In this venture, you will foster a strategy for submitting a document that has been encoded and then using explicit keys to decode it. Send a key for that document subsequent to leading a record search.

#### **3.1.2 Supervision Occupation:**

We collected criteria for developing an admin login page according to the survey results. Prior to logging in, the proprietor may catalogue the username for the websites. We try our best to contain the administrator sign in that page. Entering two part authentication to log in Share a file that satisfies the user's requirements. The data shall be assembled and designed utilizing this approach. Managing product listings, prices, and promotions; processing orders; responding to consumer inquiries; keeping track of inventory levels; organizing delivery; and evaluating sales statistics are some of the administrative tasks associated with e-commerce food product sales. Customer satisfaction and seamless operations are guaranteed by effective administration.

### **3.2 Purposeful Necessities**

User interface that is graphical in nature.

#### **Software Requirements**

The program needs the following software requirements to be developed:

Python  
Django  
MySql  
MySqlclient  
WampServer 2.4

#### **Operating Systems supported**

Windows 7  
Windows XP

#### **Technologies and Languages used to Develop**

Python

#### **Debugger and Emulator**

Any Internet Explorer (Particularly Chrome)





**Hardware Requirements**

For developing the application the subsequent items are the Hardware Requirements:

Processor: Pentium IV or higher

RAM: 256 MB

Space on Hard Disk: minimum 512MB

**IV. PROBLEM STATEMENT AND OBJECTIVES**

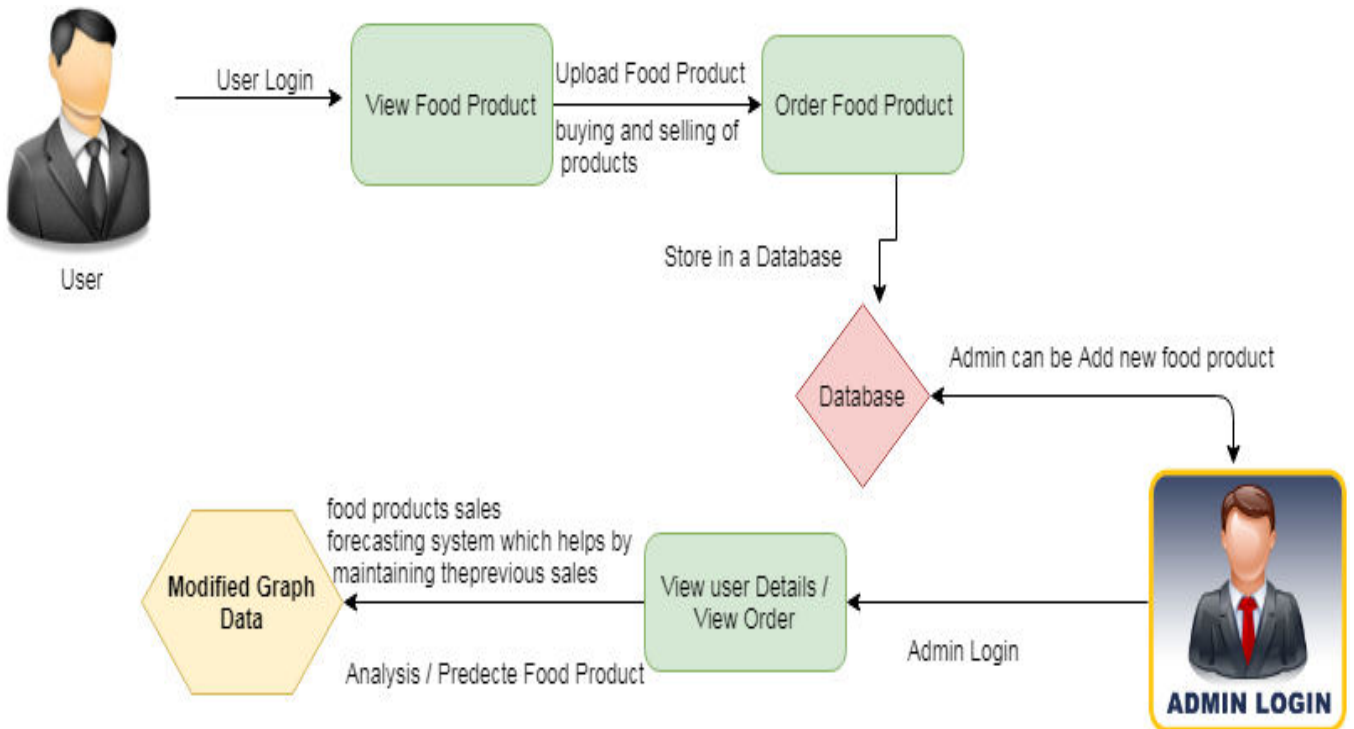
**4.1 PROBLEM STATEMENT:**

Any one, fortunate or unfortunate, can undoubtedly begin a business. Furthermore, there are many terrible locales which gobble up clients' money. There is no assurance of item quality. Mechanical disappointments can cause unusual consequences for the complete processes. As there is least possibility of direct client to organization collaborations, client dependability is generally on a check. Ease of purpose is the superb explanation that drives the progress of internet business. However web gives a speedy and simple method for buying an item, certain individuals like to utilize this innovation just in a restricted manner. They see web as a method for get-together more data about an item prior to getting it in an shop. Certain individuals additionally dread that they could get dependent on web-based shopping. Long length and absence of legitimate stock administration bring about defers in shipment. However the length of choosing, purchasing and paying for an internet based item may not require over 15 minutes; the conveyance of the item to client' s doorstep requires around 1-3 weeks. This baffles the client and keeps them from shopping online.

**4.2 OBJECTIVES:**

The target of this theoretical is to propose a web based business food items deals determining framework intended to address the difficulties looked by online food retailers, for example, adjusting to recent fads and keeping up with food quality, which bring about fluctuating deals charts. By gathering and examining past deals information, the framework expects to anticipate future deals for the impending year, giving important bits of knowledge to retailers to settle on informed choices. The framework involves two modules: Administrator and Client. The Administrator module permits heads to add and view items, oversee client records and orders, and produce deals prescient investigation reports.

**V. SYSTEM DESIGN**



**Fig: Architecture**

## VI. IMPLEMENTATION

### 6.1 SCREENSHOTS:



Fig 6.1: User Page Login

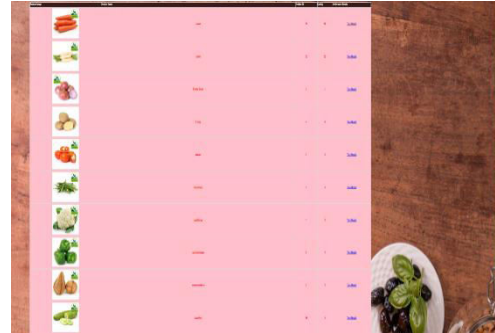


Fig 6.2: Home Page



Fig 6.1.11: Admin Page Login



Fig 6.1.12: Post the Food Products

## VII. TESTING

The detection of testing is done to find flaws. The objective behind testing is to locate every potential flaw or weakness in a work item. It offers a strategy for testing the convenience of individual parts, subassemblies, gatherings, or possibly final products. It is the most considered normal approach to testing programming to guarantee it satisfies client suppositions and needs and doesn't breakdown in a way that is unsuitable. Different test sorts exist. Each test type answers a specific examination need.

## VIII. CONCLUSION

I've concluded after closely observing that e-commerce has unquestionably grown to be a significant aspect of our culture. The internet plays a significant role in our daily lives and will continue to do so. tiny dealing must thus create their own in order to remain competitive with the bigger websites. Small businesses can now more affordably use the internet to market their goods since web developers have reduced the cost of their services. Even though e-commerce has drawbacks, small firms have made an effort to meet customer demands.

## IX. FUTURE ENHANCEMENT

Future upgrades for the online business food items deals estimating framework could incorporate a few high level elements to additionally work on its precision, convenience, and generally speaking usefulness. One key improvement is the combination of AI calculations for additional exact deals expectations, considering different factors like occasional patterns, client conduct, and market elements. Furthermore, consolidating continuous information investigation can give cutting-edge experiences, permitting retailers to settle on faster and more educated choices. One more improvement could be the consideration of a proposal motor that recommends items to clients in view of their past buys and perusing history, consequently expanding client commitment and deals. Upgrading the framework's UI to be more natural and easy to use can further develop the general client experience for both administrators and clients



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