IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 8.102 ⁜ Peer-reviewed & Refereed journal ⁜ Vol. 13, Issue 5, May 2024

DOI: 10.17148/IJARCCE.2024.13592

Farmer's Mart

Suresh U.Gaikwad[1], Shraddha S.Ghadge[2], Bhakti M.Sangamnor[3], Bhumik K.Shejwal[4]

Prof. Eknath Raut[5]

Department of Computer Engineering, Universal College of Engineering and Research, Pune, India[1-4]

Assistant Professor, Department of Computer Engineering, Universal College Of Engineering and Research, Pune, India[5]

Abstract: This study examines the planning and execution of a web-based application with the goal of enhancing user engagement and product management through several modules made specifically for various user roles. The system differentiates between the roles of ADMIN and USER, providing different levels of access and features to guarantee effective management and intuitive navigation The gateway is the Login module, which includes a mechanism for selecting a role and safe authentication using a username and password. While the USER role can only be used for browsing, the ADMIN role offers complete control over the system, including the ability to update product statuses.
The New User module streamlines the process of creating an account for new users by providing a comprehensive registration form that gathers necessary personal data, including name, phone number, and email address. This guarantees smooth onboarding and incorporation inside the program. Product information, including categories, subcategories, pictures, costs, and features, is centralized in the Product module. Users with ADMIN access can add, remove, or change product details with complete control over product management. Conversely, USERS are able to examine and view the products that are offered.The Search module improves the user's buying experience by enabling users to conduct more focused searches based on name, price, category, and subcategory. This feature is intended to make the process of finding the right product easier while taking user preferences and financial limitations into account.This paper offers a thorough analysis of the architecture and operation of each module, showing how the system guarantees effective administration for administrators and a smooth surfing experience for users.

I. INTRODUCTION

Efficient and intuitive software systems are critical for handling several company and consumer interaction facets in the current digital era. This paper provides a thorough explanation of a web application that was created to simplify the administration and accessibility of user accounts, product information, and search features. The two main user roles in the system are ADMIN and USER, each with different rights and capabilities The application's entry point is the Login module, which offers a list box with a drop-down menu to choose between the ADMIN and USER roles. With complete access permissions, the ADMIN is able to oversee every part of the software, including updating product statuses and other vital website features. Only authorized users are able to access the system thanks to the username and password authentication security feature in the login procedure. The New User module makes it easier for those without an account to create one. To enable smooth integration into the system, this process entails completing a registration form with basic user information like name, phone number, and email address. The Product module, at the heart of the application, provides comprehensive details on the products that are offered. The product name, category, subcategory, pictures, cost, and features are all included in this. The USER is allowed to view the items that are in stock, but only the ADMIN has the ability to add, remove, and change product information

II. RELATED WORK

The architecture diagram of Aircrafts illustrates a scalable and efficient system design aimed at supporting both web and mobile clients. At the core of this architecture is a load balancer, which distributes incoming client requests evenly across multiple services to ensure high availability and reliability. The services are divided into distinct functional units, each responsible for specific aspects of the application. The accounts service manages user authentication and profile data, ensuring secure and personalized user experiences. The search service handles search queries, enabling users to efficiently find products listed by farmers. The product service is responsible for managing product listings, including adding, updating, and retrieving product information from the database.The cart service allows buyers to add products to their cart and manage their selections before making a purchase. Finally, the checkout service processes transactions, ensuring secure and smooth payment processes. Supporting these services are three key components: a

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 8.102 ⁜ Peer-reviewed & Refereed journal ⁜ Vol. 13, Issue 5, May 2024

DOI: 10.17148/IJARCCE.2024.13592

cache for speeding up data retrieval and reducing load on the database, a database for persistent storage of user and product data, and a file system for handling file uploads, such as product images. This microservices-based

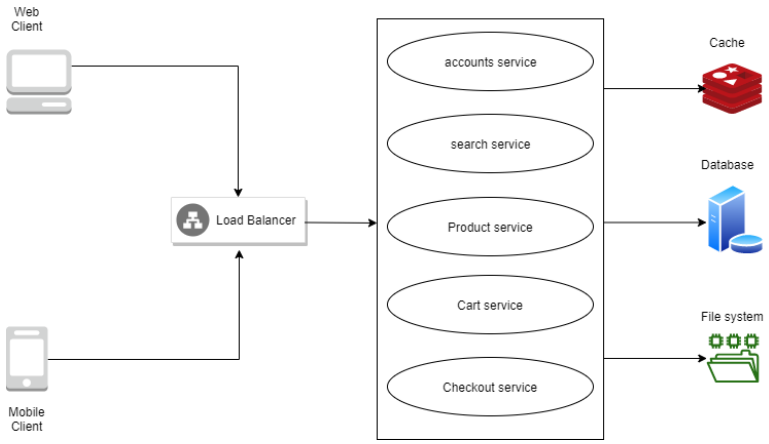


Fig2:Architecture

architecture ensures that Aircraft is robust, scalable, and capable of handling high traffic loads while maintaining optimal performance and reliability for both farmers and buyers.0activity recognition from video. The input features of the deep network include motion feature and context feature. He designed the scene prior feature and scene context feature to capture the environment around the subject of interest global and local levels. Theo Jourdan et. Al., (2018) In his paper, he proposed a privacy-preserving framework for activity recognition. This framework relies on a machine learning technique to efficiently recognize the user activity pattern, useful for personal healthcare monitoring, while limiting the risk of re-identification of users from biometric patterns that characterizes each individual. To achieve that, he first deeply analyzed different features extraction schemes in both temporal and frequency domain.

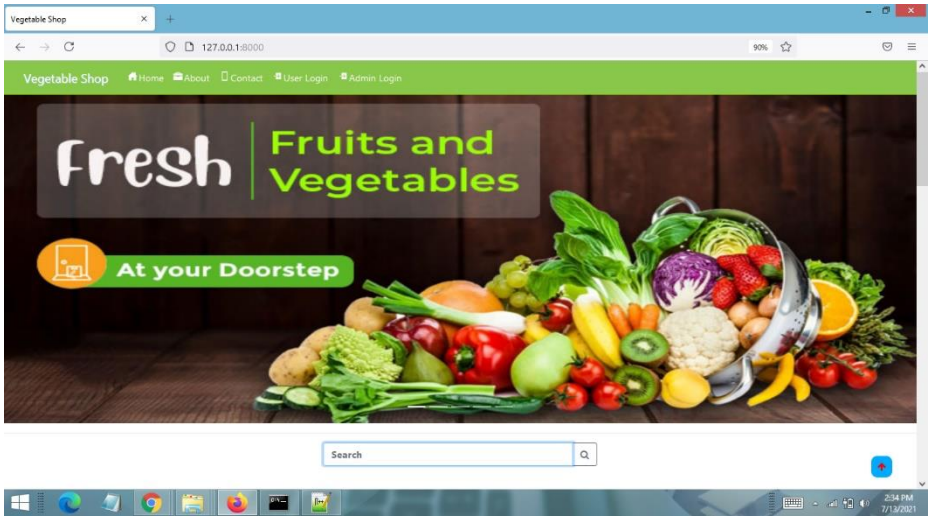


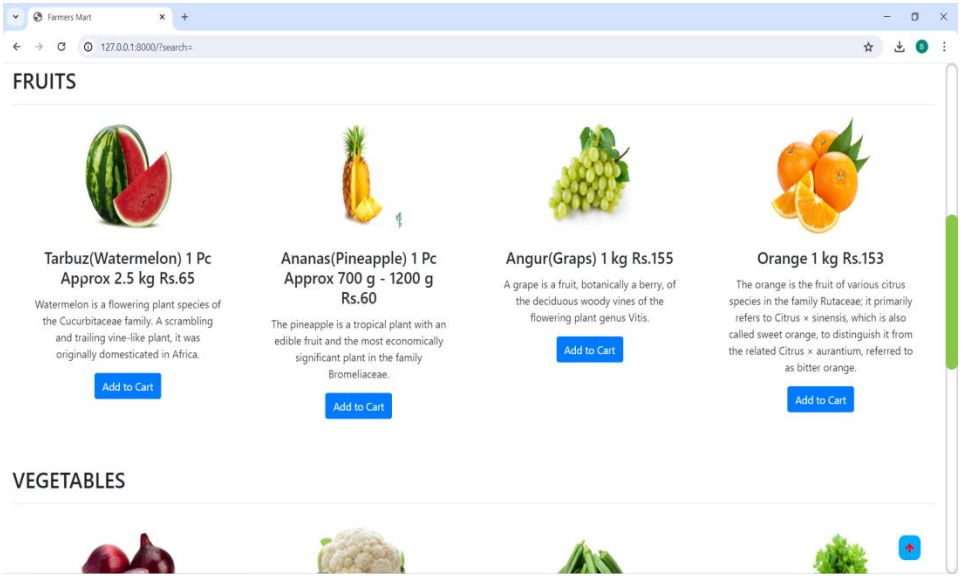
Fig1: Results

IJARCCE ISSN (O) 2278-1021, ISSN (P) 2319-5940

International Journal of Advanced Research in Computer and Communication Engineering

Impact Factor 8.102 ⁜ Peer-reviewed & Refereed journal ⁜ Vol. 13, Issue 5, May 2024

DOI: 10.17148/IJARCCE.2024.13592



Login Module: –

- This will help farmer/vendor/public to login into the system using id and password. A farmer/vendor/public who has the valid id and password can only login to their respective accounts. It will help the authentication of the farmer/vendor/public who enters the system.

Admin Module

- Login: Admin login into the system using id and password.
- Add Farming Information: He can add the forming details that is useful for farmers.
- Add Market: He can add the market details. Farmer can search the different market in various cities.
- Reports: In this module generate reports like market, farmer information.

Farmer Module

- login: The farmer can fill the registration form and get his credentials.
- Add Product: All the details of the product will be uploaded by the farmer. He will fix the rates of the products. He will add the details of the item. He can update the details of the item.
- Search Market: He can search the different market in various cities.
- Payment: He manage the payment details also.
- Search Farming: Farmer can also gather useful farming information.

Vendor Module

- Register: Vendor will get the username and password by filling the registration form. He will view all the details of the product.
- Search Farmer: He can search the former details also.
- Order: He will see the list of products that he wants to buy. He orders the bulk of products.
- Payment: He can view the sales rate details. The payment details man- aged by farmer and COD mode.

Public Module

- login: Public will get the username and password by filling the registration form.
- Search Farmer: He will view all the details of the product. He can search the former details also.
- Order For Function: He will see the list of products that he wants to buy. He orders the bulk of products for only function.
- Payment: He can view the sales rate details. The payment details man- aged by farmer and COD mode.

International Journal of Advanced Research in Computer and Communication Engineering
Impact Factor 8.102 ⁜ Peer-reviewed & Refereed journal ⁜ Vol. 13, Issue 5, May 2024
DOI: 10.17148/IJARCCE.2024.13592

algorithms via cloud computing.

Overall, this system demonstrates a practical application of sensor integration with microcontrollers and IoT platforms to achieve responsive and remotely accessible motor control.

III. CONCLUSION

In conclusion, The project entitled “Farmer’s Mart” is developed using HTML, CSS, JS as front end and Python with SQLite database in back end to computerize the process of online shopping of vegetables and fruits. This project covers only the basic features required.

IV. REFERENCES

Books:

- Wikipedia
- https://www.geeksforgeeks.org/python-django/
- https://www.javatpoint.com
- https://www.python.org/
- https://www.tutorialspoint/

REFERENCE BOOKS:

Two scoops of Django for 1.11 by Daniel Greenfeld’s and Audrey Greenfield
Lightweight Django by Elman and Mark Lavin