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DoEMART

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ABSTRACT
The Project DoEmart provides data to both companies and users who require information about different companies. The application is developed with the objective of making the system reliable, easier, faster, and more informative. By using this application, the user of this site gets all the information regarding the required industries. Registering on the Business Directory will help companies to reach out to potential clients, trade partners, and international markets.

KEYWORDS— *Business Directory, Local Retailers, Small-scale Business, E-Commerce Platform*

I. INTRODUCTION

DoEmart is a comprehensive, user-friendly online platform designed to bridge the gap between local businesses (small-scale retailers) and consumers. The primary goal of the DoEmart system is to provide an efficient, reliable, and easily accessible interface for both users and business owners, specifically targeting smaller-scale shops that do not have the infrastructure or resources to showcase their products on large-scale e-commerce platforms.

II. SYSTEM OVERVIEW

DoEmart is an innovative and user-friendly online platform designed to connect small-scale retailers with consumers through a comprehensive business directory system. The platform specifically caters to local businesses, especially those in rural and suburban areas, helping them establish a digital presence without requiring extensive technical knowledge or large-scale infrastructure.

- **Database Management**: Securely manages business and user data using MySQL or PostgreSQL.
- **API Support**: Implements RESTful APIs for seamless communication between components.
- **Frontend**: Utilizes HTML, CSS, JavaScript, and frameworks like React or Vue.js for an interactive user experience.
- **Scalability & Accessibility**: Designed to be scalable, user-friendly, and optimized for both desktop and mobile users, ensuring accessibility for small businesses and consumers alike.

III. HARDWARE REQUIREMENTS

The hardware components required for the system include:

- **Hosting**: Dedicated server or cloud-based hosting with high availability and scalability.
- **Processor**: Multi-core CPU (Intel Xeon or AMD Ryzen) for efficient performance.
- **Memory**: Minimum 16GB RAM for smooth processing of database queries and web requests.
- **Storage**: SSD (minimum 500GB) for faster data retrieval and system performance.
- **Network**: High-speed internet connection for quick access and responsiveness.

IV. SOFTWARE REQUIREMENTS

DoEmart is built using a Python-based tech stack for its backend, leveraging Django or Flask for efficient web development. The frontend utilizes HTML, CSS, JavaScript, and frameworks like React or Vue.js for an interactive user experience.

- **Backend**: Built using a Python-based tech stack, leveraging Django or Flask for efficient web development.

V. SYSTEM ANALYSIS

Existing System

The current application simply sends the most relevant information to users regarding specific shopkeepers or service provider details. The major limitation of this approach is that users can only access a limited set of shopkeeper information, primarily supporting large-scale businesses. Existing diversification problems focus on retrieving an individual list of items with a certain level

- Unfortunately, relevance alone is unable to capture the broader aspects of user satisfaction.
- Users expect to receive messages that are highly relevant to their interest

Proposed System

This work considers a web environment that makes the application unique and more challenging.

- Direct communication between shopkeepers and users eliminates intermediaries.
- Shopkeepers and users benefit from better quality and lower costs due to direct interaction.

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- Enhances local business visibility and digital presence for small-scale retailers.

VI. ADVANTAGES OF THE PROPOSED SYSTEM

The application connects all shopkeepers from rural backgrounds, different streets within the same city, as well as other cities within the state.

- User satisfaction is improved with the help of topic diversification.
- This helps users discover new places and activities.
- All small-scale shopkeepers connected with this application benefit users.

VII. FUTURE SCOPE

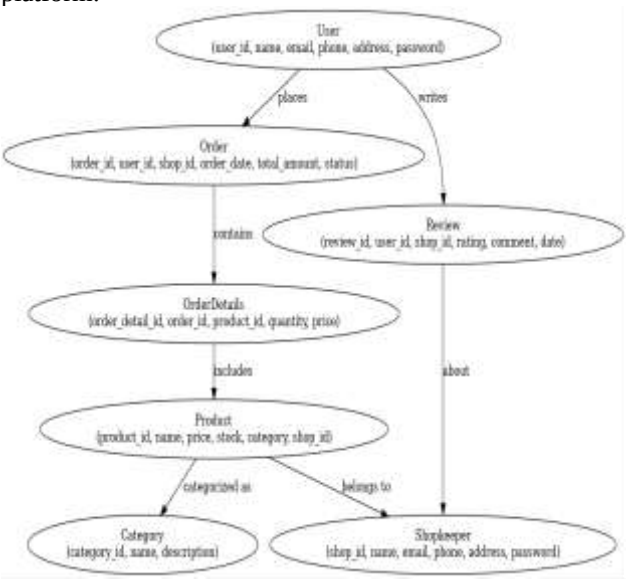
DoEmart aims to expand its reach by covering multiple states, supporting more local businesses, and introducing a dedicated mobile app for enhanced accessibility. Future enhancements include AI-driven product recommendations, multi-language support, and integration with secure payment gatewaysFor papers with more than six authors: Add author names horizontally, moving to a third row if needed for more than 8 authors.

VIII. MODULE DESCRIPTION

- **Admin**: The admin has complete authentication and approval of applications for both users and shopkeepers/business owners.
- **Shop Keeper**: Shopkeepers can add their products along with details such as rates, quantity, size, offers, etc., for easy access by users.
- **Users:** Customers need to register their details, such as name, address, mobile number, photo proof of identity, and address proof identity.
- proof identity.

IX. ER DIAGRAM

An ER diagram for an online shopping system illustrates the relationships between key entities involved in the e-commerce platform.



(Figure 1: Flow of data and control signals)

X. FLOWCHART DIAGRAM

The flowchart for DoEmart illustrates the overall working process of the platform, from user interactions to order fulfillment.

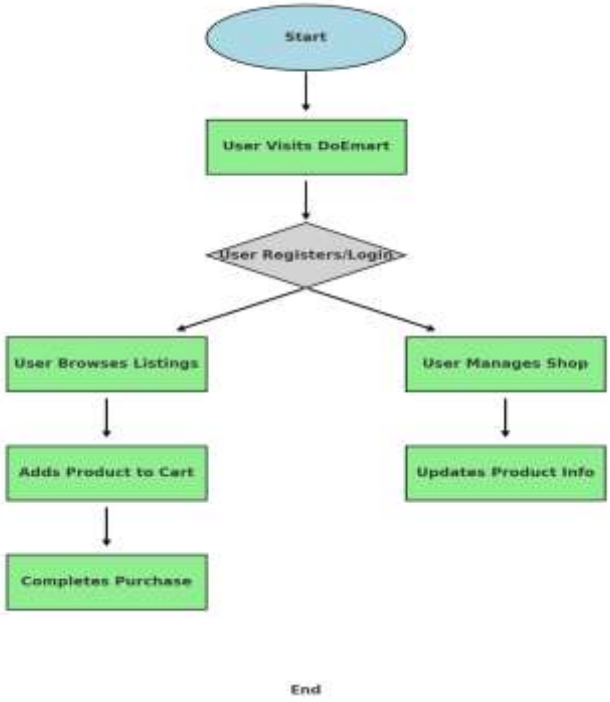


Figure 2: System workflow)

XI. CONCLUSION

DoEmart is a user-friendly, scalable, and efficient platform that bridges the gap between local shopkeepers and consumers, eliminating the need for intermediaries. By providing a digital presence for small-scale retailers, especially in rural and suburban areas, DoEmart empowers businesses to reach a wider audience while ensuring customers get quality products at competitive prices.

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