PROJECT ABSTRACT	
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MAIN PROJECT

Cardamon Groove Emporium

Abstract:

Cardamom Grove Emporium is the perfect online shopping destination for cardamom aficionados and farmers, offering a wide variety of quality cardamom kinds acquired from reliable farms. Our platform provides a wide range of culinary and medicinal demands, from the rich and aromatic green cardamom to the powerful and robust black cardamom. Cardamom Bazaar offers the best quality cardamom goods that will satisfy your taste buds and enrich your recipes with extraordinary flavors.

One of our unique features is our innovative cardamom dryer allocation mechanism, which was created specifically for cardamom producers. We understand the significance of the drying process in retaining the particular flavor and scent of cardamom. Farmers can properly manage the drying process post-harvest using our allocation method, resulting in less loss and a steady supply of premium cardamom for our clients.

We take pride in our user-friendly layout, which allows for easy navigation and a pleasant purchasing experience. Customers may quickly investigate our items, obtain thorough information, and place secure orders. Our dedication to global shipping guarantees that the delicious flavor of quality cardamom reaches doorsteps all over the world. Cardamom Grove Emporium aims to be the go-to destination for all cardamom-related needs, supporting farmers and delighting customers with every purchase, and facilitating efficient cardamom dryer allocation to enhance the overall cardamom experience.

Functionalities of Modules:

Customer module:

Cardamom Groove Emporium's customer module normally incorporates a variety of capabilities aimed at offering customers a personalized and simple buying experience. Some of the client module's important features may include:

- Login & User Registration: Customers can create accounts on the website by registering using their email addresses or social media profiles. This makes it easier for customers to log in for future visits, track orders, and change their profile information.
- Customer Profile Management: Customers may access and change their profile details, such as their name, shipping address, contact information, and payment choices. This tool makes the checkout process easier for returning clients.
- Product Browsing and Search: Customers may explore the cardamom collection and utilize search criteria to locate particular items based on cardamom kind, quantity, and price. It also allows the customers to search cardamom dryers based on distance.
- Shopping Cart: The shopping cart function in the customer module allows consumers to add numerous cardamom goods to their basket before going to checkout. They can examine and modify the items of the cart as needed.
- Ordering and Tracking: Customers may make orders for the cardamom goods they want and receive order confirmation notifications. Customers may also follow the progress of their orders and receive delivery information using the module. It also allows you to reserve a cardamom dryer.
- Secure Payment Processing: To provide smooth and secure transactions, the customer module incorporates secure payment gateways. Customers can make payments using credit cards, debit cards, etc.

Admin module:

The admin module offers the backend administrative tools required to supervise and administer the platform's many components. The admin module usually includes the following features:

- Product Management: The admin has the ability to add, update, and delete cardamom goods from the website. They have the ability to handle product data such as photos, descriptions, pricing, and inventory levels.
- Order Management: The admin has the ability to examine and manage client orders, including order status, payment status, and shipment data.

• Inventory Management: The admin may monitor and update the inventory levels of cardamom products. They may be notified when supply is running low, allowing them to refill items in a timely way.

Dryer Owner module:

The dryer owners module provides a separate platform for cardamom dryer owners. This module streamlines the dryer allocation procedure and provides smooth communication between the website and the dryer owners. The dryer owners module may have the following critical features:

- Dryer Allocation Management: The module allows dryer owners to view and manage the allocation of their dryers to cardamom farmers.
- Communication with farmers: The module could include notification elements that enable drier owners to interact directly with cardamom farmers about the progress of their drying services.
- Account Management: Dryer owners can manage their profile information, update contact details, and modify preferences within the module.

Key Technologies to be implemented:

- **Multi Language support**: Since the primary users of the Cardamom Groove Emporium are commoners, the website is expected to support multiple languages.
- **Voice Search**: The Cardamom Groove Emporium is expected to support voice search to provide customers with easy access.
- **Currency conversion**: The website is expected to provide currency conversion, enabling users from around the world to purchase easily, check prices in their own currencies, and make knowledgeable judgements.
- **Voice assistant integration**: The Cardamom Groove Emporium is expected to support voice assistance for navigation thereby helping commoners for easier access to products.

MINI PROJECT

<u>Cardamom Dryer Allocation: Empowering Individual Producers for</u> <u>Efficient Drying Processes</u>

Abstract:

"The Cardamom Dryer Allocation" is an innovative online platform that aims to transform the cardamom industry by automating the dryer allocation process for independent producers. Cardamom, a highly valued spice, requires precise drying processes to maintain its distinct flavor and aroma making drying a vital stage in its manufacture.

With its user-friendly layout, the Cardamom Dyer Allocation Website allows producers to register and build profiles, providing important information about their production scale, location, and drying needs. The website uses efficient algorithms to link cultivators with the best drying facilities in their area depending upon the availability. Capacity, drying procedures, and climatic conditions along with distance in between are all taken into account to create a perfect fit between producers and dryers.

The Cardamom Dryer Allocation Website's adoption has the potential to transform the cardamom business by enabling fair access to efficient drying facilities for all individual farmers. The platform intends to boost the position of cardamom producers in the global marketplace by promoting consistency, quality, and market value, while also encouraging sustainable practices and resource utilization.

In conclusion, the Cardamom Dryer Allocation Website provides a transformative solution to the drying issues experienced by individual cardamom farmers. The platform enables farmers to increase the quality and value of their cardamom by utilizing technology and allowing better dryer allocation, ultimately resulting in greater market prospects and long-term sustainability in the business.

Functionalities of Modules:

User Modules:

Admin module:

The admin being the root user, holds the ultimate control over the website. The basic privilege and functionalities of the admin includes:

- Ability to register and login to the website securely.
- Ability to view dryer booking details.

Dryer Owners module:

The Dryer owner being the one among the key users, plays a vital role in the website. Primary functionalities include:

- Ability to register and login to the website securely.
- Ability to update the details about the dryer along with capacity of the dryer.
- Ability to manage and update pricing of the service.
- Ability to view the booking details.
- Ability to update the customer about the status of the service.

Customers module:

The customer earns the vital role in accessing the website. Key functionalities include:

- Ability to register and login to the website securely.
- Ability to search for available dryers based on location, capacity and availability.
- Ability to view dryer details including rental rates and features.
- Ability to book for reservation or to cancel the reservations.
- Ability to perform payment.

SEMINAR

Identifying mature and immature cardamom via Image processing

Cardamom, a fragrant spice with culinary and medicinal use, is picked at various stages of maturity. Differentiating ripe from immature cardamom is critical for quality control, optimizing harvest time, and increasing market value. In this lecture, we will delve into the intriguing realm of image processing methods and how they may be used to determine the maturity of cardamom pods.

Image processing is a branch of computer science that analyzes and manipulates digital pictures using computer vision techniques. We can extract key traits and patterns from cardamom pod photos that indicate maturity stages by using modern image processing technologies. This session will go through the most important image processing approaches, such as picture segmentation, feature extraction, and machine learning algorithms.

The proposed paper will present cutting-edge research and practical applications, as well as examine the problems and potential solutions for distinguishing adult and immature cardamom. We will look at several picture datasets gathered from cardamom farms and offer real-world case studies and experimental outcomes.

Feasibility Study

Feasibility is defined as the practical extent to which a project can be performed successfully. To evaluate feasibility, a feasibility study is performed, which determines whether the solution considered to accomplish the requirements is practical and workable in the software. Information such as resource availability, cost estimation for software development, benefits of the software to the organization after it is developed and cost to be incurred on its maintenance are considered during the feasibility study. The results of the feasibility study should be a report that recommends whether or not it is worth carrying on with the requirements engineering and system development process.

When considering the Cardamom Groove Emporium, the website aims to provide the users best ever experience. Until the date, a common platform supporting the cardamom developer with the cardamom dryer owner and cardamom sellers hasn't been implemented. This resulted in drawbacks which includes the following:

- Manual and Time-consuming procedures: In the absence of a software system, the
 organization will continue to rely on manual procedures for a variety of jobs. This is timeconsuming, error-prone, and inefficient, resulting in higher operating expenses and lower
 production.
- Lack of Adaptability: The lack of a software system may limit the organization's ability
 to adjust to changing business requirements and technological improvements. This might
 result in the organization's failure to adapt rapidly to market demands, restricting its
 competitiveness.
- Missed Growth Opportunities: Inefficient operations and a lack of flexibility may cause
 the organization to miss out on possible growth possibilities. This might result in a decrease
 in market share and income.
- Increased Operating Costs: Manual procedures and inefficiencies can lead to increased operating costs, such as labor costs and possible errors that must be corrected.

Types of Feasibility

Various types of feasibility that are commonly considered include technical feasibility, operational feasibility, and economic feasibility.

Technical feasibility

Technical feasibility evaluates the present resources (such as hardware and software) and technology necessary to meet user needs in software within the time and budget constraints.

The Cardamom Groove Emporium attempts to use technologies that are possible for future growth. The use of technologies such as the Django framework, which is supported by Python, allows for broader elements of implementation. Since the Python programming language is basic and easy to learn and understand, there is a greater and larger range of extensions available when considering the organization's future development and needs.

Operational feasibility

Operational feasibility assesses the extent to which the required software performs a series of steps to solve business problems and user requirements. This feasibility is based on human resources (the software development team) and entails visualizing whether the programme will run once it has been produced and will be operational once deployed.

The Cardamom Groove Emporium is operationally possible since it unites customers, cardamom dryer owners, and cardamom vendors on a single platform. The dryer allocation automation will allow cardamom producers to reserve dryers for the days when harvesting is likely to be completed. As a result, it aids in decreasing post-cardamom process delays, hence ensuring cardamom quality. The technology may assist merchants in establishing direct touch with cardamom growers, hence eliminating cardamom procurement delays for selling reasons. The suggested system necessitates less manual resources, and each service is accessible via a user-friendly interface.

Economic feasibility

Economic feasibility examines if the needed software can generate financial rewards for a company.

The Cardamom Groove Emporium suggested solution is operationally possible since it does not require any new hardware resources. The project is intended to be built using Python frameworks. As a result, it aids in lowering the cost of development when considering the organization's long-term rewards. Because the projected users were commoners and needs were gathered using direct surveys, the expense of requirements analysis was kept to a minimum.

MAIN PROJECT

Functionalities:

Customer module:

- Login & User Registration
- Customer Profile Management
- Product Browsing and Search
- Shopping Cart
- Ordering and Tracking
- Secure Payment Processing

Admin module:

- Product Management
- Order Management
- Inventory Management

Dryer Owner module:

- Dryer Allocation Management
- Communication with farmers
- Account Management

Key Technologies to be implemented:

- Multi Language support
- Voice Search
- Currency conversion
- Voice assistant integration

MINI PROJECT

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