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Energize Management

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ABSTRACT

A renowned juice centre also known Hari Om Juice Bar in Pune is a specific type of shop characterized both by its juices and service. Juices served in the shop is offered from a limited menu, prepared in bulk fresh, is finished and packaged for order and is usually available ready for pickup or to be delivered though seating may also be provided. The customers presently spend an average of 60 minutes per day going to the shop, selecting their juices and paying. The shop though has the provision of customers making a call to the restaurant in advance to order to be ready for them for pick or to be delivered to them. Some of the customers don't always get the selection they want because the shop runs out of certain items or because there is no provision of ordering customs.

This project is aimed at developing a complete online ordering system for use in the service which will allow the shop to quickly and easily manage an online menu which customer can browse and use to place orders with just a few clicks. The customers will have to choose whether they want the juice to be delivered to them or it will be packaged for pick up and the payment method will be upon delivery or pick up. There will be a system administrator who will have the right to add and manage user accounts, a manager who will be managing product and orders and last but not least a deliverer who will be dealing specifically with pending deliveries. The customer will be in a position to view the products, register and place an order. There will be a confirmation receipt for each and every order made by the customer which can be printed.

The development of this system will be based on SDLC with PHP and HTML as the programming languages while MySQL server as the database of the system. HTML language is advantageous due to its easy to use and learn validation properties while MySQL has better advanced features and properties, has good security, is open source and has cross platform operability.

Keywords: Online Order System

1. Introduction

The Energize Management System is based managing a well-known organisation “*Hari Om Juice Bar*” which has its business widespread in and around Pune. The organisation has worked for many years on physical ground and now wishes to expand the business on the online platforms. Due to **COVID-19** effect, the scenario of the market has changed and the service providers are at a loss. Our project aims for safer ordering and to generate bliss among people that online ordering can be safe and healthy too.

1.1. Purpose

This paper provides a description of all the functions and constraints of the Energize Management System, developed for customers and owners of the shop to place orders and manage orders respectfully over the website named “*Hari Om Juice Bar*.” The purpose of the project is to ease order management for the owner and to create a convenient and easy-to-use application for customers for placing their order. The system is based on a relational database with its token management and delivery functions. This project will enable the provider to sell beverages, different kinds of healthy fruit juices, ilkshakes, etc. through the website.

Above all, we hope to provide a comfortable user experience along with the best pricing available.

1.2. Project Scope

- Energize Management System will be a real time product that can be used by the shop owner as well as the customers.
- To help the customers and the employee to interact with each other in an easy way.
It will also have the facility for the Sellers to view, update, delete their product availability.

2. Overall Description

2.1 Product Perspective

The Energize management system is set up by the proposed food ordering system and admin panel as per their will customers can easily place the order. Also, customers can easily track the orders with the food menu. The management improves food delivery service and preserves customers' databases. Motivation to develop the system is from the restaurant management system. To get the services efficiently the users of the system provide various facilities. The Shop as well as Kitchen facility is considered by our system for the customers. Most employees are people who are shifted to new sites and this can be considered as a motivation to our system. Another motivation can be considered as the increasing use of websites by the customers, so that any users of this system get all services of the system. The system will be designed to avoid users making fatal errors where users can change their own profile and also where users can track their beverages.

The following are the main features of BookADDA:

- User account: The system allows the user to create their accounts in the system and provide features of updating or viewing the products.
- Search: Users can search the product name they want to buy according to their needs.
- Recommendation system: designed to recommend things to the user based on many different factors. These systems predict the most likely product that the users are most likely to purchase and are of interest to.

2.2 Product Features

Energize Management System will provide a number of functions;

1. Maintain a record of users who have created an account.

→ Users will have a username, password, email-id and contact number.

→ Anyone can sign-up for a user account.

2. Maintain Inventory.

→ Products are to be displayed in ascending order by title.

→ Admin will be able to update the records by adding a new product.

3. Maintain a record of users

→ A user will have a username (unique across all users), password (no restrictions), email address (no restrictions), phone number (for verification)

→ Anyone can sign up for a user account.

4. Allow users to login and logout of the system.

→ Users will be logged out if inactive for 30 minutes.

5. Shopping cart

→ Anyone is able to add one or more books to the shopping cart.

→ The cart does allow multiple entries of any product.

→ If not interested to buy or want to keep that product as an option then that user can keep that product in wishlist.

6. Checkout

→ Checkout is only available to logged-in users.

→ The user can use any mode of payment to complete the transaction securely.

7. Update account

→ Users can update his/her profile information as per needed.

→ Users can also change their login credentials through a verification process so that any other user will not change or use the profile.

2.3 User roles and rights

The major user classes in this system would be:

1. Customer: The new customer needs to register and give the complete details. After registration the customer needs to login using username and password
2. Admin: The Controls the system, inventory, employee details, etc
3. Employees: The Employee Functions have Login and registration along with payroll system

The other classes would be:

1. Products:
 - Products are to be displayed in by title.
 - The customer can buy online per requirement.
 - Each Product will list the following
 - Title
 - Image
 - Price
2. Wishlist:
 - The customer can add as much as products he/she wants.
 - The customer can add the products to the cart or remove it from the wishlist.
3. Cart:
 - Customers are able to add one or more books to the cart.
 - The shopping cart does allow multiple entries of any product.
 - While viewing the cart, the system will display the total cost of the books in the cart.
4. Payment:
 - The payment can be done through:
 - Cash
 - Online banking
 - UPI
5. Cancellation:
 - If the customer wants to cancel his order then he should complete his cancellation process within 2 mins or else the request for cancellation may not be considered.
6. Order details:
 - The customer can contact the admin through chatbox.
 - After successful transaction(payment) the customer will receive receipt of their order and product status will be updated and notified to the seller.

It is considered that the user does have the basic knowledge of operating the internet and to have access to it. The administrator is expected to be familiar with the interface of the tech support system.

2.4 Operating environment

- The user interface for the software shall be compatible to any browser such as Internet Explorer, Mozilla or Netscape Navigator or by which user can access to the system.
- We will use MySQL database in our project.
- It can be open on Windows 7 and above.
- The processor should be at least i3 core for faster use.
- Website will be developed using Php.

2.5 Design and implementation constraints

Constraints:

The design and implementation constraints are:

- The information of all the customers, vendors and administrator must be stored in a database that is accessible by the website.
- MS SQL Server will be used as SQL engine and database.
- The retail.ly will run 24 hours a day and 7 days in a week.
- User may access from any computer that has internet browsing capabilities and an internet connection.
- User must have their correct username and passwords to enter into their accounts and do actions.
- All the browsers are compatible.

2.6 User documents

We will give the complete documentation in the form of FAQ (Frequently Ask Questions) which will include software to be used, installation process of the software, user queries or any questions ask by the users will be updated in particular interval of period.

2.7 Assumptions and Dependencies

Accessing Energize Management System needs Internet Connection.

For User:

We have assumed that all the user's computer systems are in proper working condition and that the user is capable of operating these system's basic functions including but not limited to being able to power on the system, login and open either Internet Explorer or Mozilla Firefox, and navigate the browser to the address of this website.

Admin:

We have assumed that this website will be running on a properly working web server and database system with an Internet connection that allows this system to perform all transactions with customers and employees.

Assumptions:

No one can access others information or private data

3. System Features

3.1 Description and priority

The interface will be presented to the user in a web browser. The interface must remain consistent among various web browsers and be intuitive to the user. This is a medium priority system feature.

- It will have one main page under which there will be three different login pages i.e. Customer, Admin, and Employee
- Admin can manage products, employees as well as customers.
- The customers can simply surf the product on portal, and when they want to buy the product, they need to login through customer login.
- Administrator can login, handled the user's detailed securely along with viewing the details of the uploaded product.
- Employee Details such as work time and payment will be kept intact
- It provides sales prediction for admin to expand their business.

- Recommendation system.

3.2 Stimulus/Response sequences

- Web Browser initiates request to Web Server via HTTPS
- Web Server parses request
- Web Server submits request to Service
- Service picks up request
- Service runs task
- Service returns results
- Web Server checks for completion
- Web Server returns results to Web Browser
- Web Browser displays results

3.3 Functional Requirements

This web application can be deployed on linux or windows (xp or 10) machines with Apache Server and MySQL server.

- Minimum RAM 512MB
- Intel Dual Core Processor
- Internet Connectivity with Ports configured 20GB Storage Space.

This application can be accessed by a user through a machine having any web browser with html JavaScript support and flash to get video content.

The client devices must have installed preferably have browsers like :-

- IE9 or above
- Mozilla Firefox (version 3.5 or above)
- Opera 10 or chrome (version 29 or above)
- Safari

Must have enabled flash content to get videos output.

Specified versions are preferred to get HTML 5 output.

The portal can be accessed through a mobile or PDA with internet access and a web browser supporting html & JavaScript output.

4. Conclusion

This system could be useful at a universal level. It can be used among any of the companies of the word for tracking the location of the employees. It also helps the ADMIN department run the payroll services and also mark and monitor the attendance of the employees.

In conclusion, it could be safely said that the system delivers satisfactory results and can be very useful for any of the companies who may face trouble managing the details of the employees.

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