

Food Compare Search Engine

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Abstract - The purpose of the project is to develop an internet food programme. it's a system that enable customer of food to put their order online at any time and anyplace the explanation to the develop the system because of issue facing by the food industry these issue are such a peak hour –long queue issue increase of remove food than visitor ,speed major requisite of food preparation ,limited promotion and advertising on current strategy, and internal control of the food management issues, Therefore ,this system enhances the speed and standardization of taking the order from the customer and display it to the staff within the kitchen accordingly Beside that ,it provide a user-friendly web content and effective advertising medium to the new product of the web food restaurant to the customer with cheaper cost . Further, it also extent and deliver customer satisfaction especially to the hectic customer or reaching the customer what are constraints of transport to be in food restaurant .At the identical time intensify market share for food restaurant and increase return on investment for the investor the structure methodology are chosen to develop the web Food search engine

1. Introduction

It is a online food ordering search engine. The service allows consumers to search, compare, and select the best food delivery option from any restaurant available on their site. What makes us unique is they enable users to see all restaurants that offer online ordering - not only restaurants that use third-party ordering platforms (UberEats, Zomato, swiggy etc.) but restaurants that conduct their own online ordering as well. It provides complete information to consumers by aggregating over 165,000 restaurants

nationally, thereby always finding the best deal on food delivery or pickup.

An ordering system is cited as a group of detail methods that's getting used in handling the ordering process. Food ordering may be computerized or done manually. The customer self-ordering system may be defined as a computerized system that's getting used by customers to put their own orders within the restaurant and permit the orders to be tracked, so as to arrange and deliver the food to their places at the best price available.

2. Body of Paper

2.1 Scope of project

- "Online food" (search for hunger) is an extensible web application to support various food sites and provide the best comparable and reasonable prices . it will search all the types of food that customer what to eat.
- Give them accurate real time price of the food sites.
- It is an easy platform which will help the customers to achieve good quality of food on affordable prices in less time.
- A system will link to all the API'S of various food hubs means by using a single application you can order the food in efficient time.
- User have to login once and can track all the real time activities regarding food.

- Every restaurant have different costs and have different consumers reviews. We help user to make decisions in terms of prices as well as in terms of ratings. We are using different portals for food comparison and telling the user about the best offers. We are using the different API of the websites for extracting data. After the user has made the decision what to buy we will direct it to the main page of the website. Our goal is to give user the choice of choosing from different websites and can make a better decision of what to buy according to it.

2.2 Reason to choose

- Save money and time by completing orders from the service with the best deals from the resturants you selected
- To provide a simple interactive system to business to customer service process in efficient time.
- To generate data as per the need of customer.
- Updation of charges in real time.

Self-service or self-ordering within the restaurant industry refers to the restaurant taking orders from customers through applying various sorts of technologies like the net and plenty of others. Self-service or self-ordering is successful when it's applied at restaurants in many other countries. The usage of the self-service or self-ordering technology is proven to profit most of the investors.

Reports that the majority of the Indians hate watching for an order. Therefore, they like self-service technology, which might be within the type of text messaging, the net and kiosks. Usually, the customer prefers self-service thanks to speed and convenience in making orders and transactions while minimizing miscommunication. He also mentioned that self-activated terminals are more likely to function ordering innovation within the future the implementation of other

ordering can increase check size, unlock counter staff that require to serve customers and take money handling out of service equation.

proposed to develop an internet food search ordering system that permits customers to put orders anytime at anywhere. The system helps to manage orders from customers further as advertise promotion . It allows kitchen staff to look at ordering information, management to manage sustenance raw materials and staff to look customer delivery and profile information. this technique helps to cut back queue issues during peak hours, speed up food preparation and increase customer volumes. As a result, market share of sustenance restaurants may be boosted up and increases return of investment for the investor.

Analyzes supported similar applications and determines the mandatory features within the application, further because the details about the features that may be created with each feature. Features that are needed in applications for purchasers are as follows: New Order: New Order is that the main feature of the customer side application that may be wont to make orders. An order may be made in two separate ways, the one is by using My Favorites feature to form an order by choosing one in all the highest three favorites restaurant and therefore the other one is by using Make a replacement order feature to form an order by choosing restaurant and menus provided easily. Order History: Customer's order history is shown by this feature namely order history. Restaurant Profile: Restaurant's profile is shown by this feature.



DIAGRAM

3. Research methodology

Research methodology has many research dimensions and methods. The scope of research methodology is wider than research methods. This is often mainly adopted by the researcher in undertaking this research. Methodology is that the underlying principles and rules that govern a system method, on the opposite hand it's a scientific procedure for a collection of activities. Thus, from these definitions a strategy encompasses the methods used within a study

A waterfall model under the software development life cycle (SDLC) is that the methodology accustomed produce the net food and helps it to match with different websites. It's employed by system developers to supply or alter information systems or software. It divides the event process into several stages or processes. After the completion of 1 stage, it'll logically move to a different stage. Sometimes moving back to the previous stage is critical thanks to failure that happens in current stage

System design methods are a discipline within the software development industry which seeks to supply a framework for activity and therefore the capture, storage, transformation and dissemination of knowledge so on enable the economic development of computer systems that are suited purpose

3.2 Methods of data collection

Although there are various methods of knowledge collection, the researcher chose the 2 main sources of knowledge collection in closing their study. They are:

1 Primary source

2. Secondary source

The primary source refers to the sources of collecting original data during which the researcher made use of empirical approach like personal interview. The secondary sources of knowledge for this sort of project can not be over emphasized. The secondary data were obtained by the researcher from magazines, journals, newspapers and library source

3.2.1 Oral interview

The interview method of knowledge collection will be defined as a scientific way of collecting data or information from a respondent through asking questions directly from the respondent and also collecting information with the aim of facilitating understanding. The oral interview was done between the researcher and therefore the management of staff of KRISPY nourishment, Awka. Reliable facts were obtained supported the questions posed to the staff by the researcher which helped the researcher in starting the work and also helped within the area of solution presentation of the new design.

3.2.2 Study of manuals

Manuals and report supported nourishment services were obtained and studied and plenty of data concerning the system to be produced was obtained

3.2.3 Evaluation of forms

Some forms that are necessary and available were accessed. These include the restaurant menu nourishment form, payment receipts etc. these forms helped within the design of the new system.

3.3 Analysis of existing system

Throughout the system analysis, an in-depth study of end-user information is conducted, for producing functional requirements of the proposed system. Data about the prevailing ordering system is collected through several fact-finding techniques like website visit and document review, at the start of this stage. The information collected facilities information required during detailed analysis. A study on this system is performed supported the collected data. As a result, user requirements of the proposed system are determined. At the top of this stage, requirement specification is produced as deliverable.

3.4 The prevailing system

The existing system happens to be a non computerized software package where all operations are done manually by the waiter carrying paper and to require down the order of the

customer or make an order over the counter. This results in mistakes because the waiter won't understand what the customer had ordered therefore serving him/her a unique menu. this might be so embarrassing because the customer won't take it lightly with the waiter which can cause misunderstanding.

3.5 Problems in existing system

Due to manual means being employed by the nourishment restaurants, it's very difficult to satisfy the needs and desires of the shoppers. Most of the issues include

1. Mistakes are made when taking the orders of the shoppers
2. the method of collecting customers' purchase orders is extremely tedious.
3. This makes it impossible to deliver goods on time
4. It results in lack of understanding between the shoppers and therefore the employees
5. The record keeping system is poor. Losses of significant records are reported within the past consequently. Besides, protecting the filing system from unauthorized access could be a problem that has defiled solution

3.6. Objectives of proposed system

The proposed system is developed to manage ordering activities in nourishment restaurants. It helps to record customer submitted orders. The system should cover

the following functions so as to support the restaurant'

s business process for achieving the objectives

1. to permit the customer to create order, view order and make changes before submitting their order and permit them make payment through prepayment card or mastercard or charge account credit

2. to supply interface that permits promotion and menu

3. to forestall interface that shows customers

4. Tools that generate reports that may be used for deciding

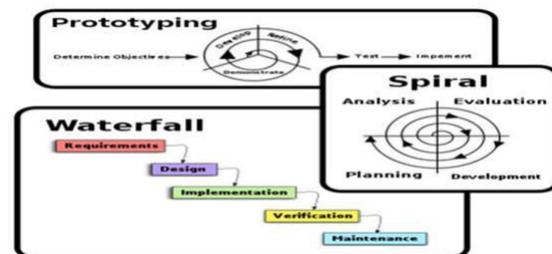
5. A tool that permits the management to switch the food information like price, add a brand new menu and plenty of others additionally as tools for managing user, system menu and promotion records

3.7 Justification for new system

It is the aim of the new system to deal with all the issues plaguing the current system. this technique will do the analyzing and storing of data either automatically or interactively. it'll make use of PHP-MYSQL. this may be like this: a report is generated conforming to particular information needed by the management via the monitor. this may require the input of necessary data and record of nourishment ordering and delivery and so a report is generated

The proposed system will have another features like

1. Accuracy in handling of knowledge
2. the quantity of paperwork are going to be greatly reduced
3. Fast rate of operation as in making the ordered food available and delivered on time
4. Flexibility
5. Easy thanks to make a copy or duplicating data
6. Better storage and faster retrieval system
7. Errors within the reports are going to be greatly minimized



- 4) Technologies used:

4.1 Python is an interpreted, high level, general-purpose computer language. It provides constructs that enable clear programming on both minute and massive scales. The Back-end section of this proposed work is done on Python.

4.2 Flask, a micro web framework written in Python. It's classified as a micro framework because it doesn't require particular tools or libraries. There is no database abstraction layer, form validation, or components where pre-existing third-party libraries provide common functions.

4.3 MongoDB, used for high volume data storage. Instead of using tables and rows as in the traditional relational databases, MongoDB makes use of collections and documents.

4.4 Docker, Containers allow a developer to package up an application with all of the parts it needs, such as libraries and other dependencies, and deploy it as one package.

4.5 Deploying Restful API into AWS EC2 instance, use aws sdk to create an api supporting ec2 reboot

4.6 Web Scraping with python, use of a program or algorithm to extract and process large amounts of data from the web

Conclusion

We have already seen there is no single website that can search from different websites and gives you the results.

It would be cool if you were able to compare and list restaurant foods around you based on food price, food specific rating to the ideal restaurant by only one website. This website lets you compare restaurant foods based on food price, food specific ratings from different food delivery websites like zomato, swiggy, uber eats etc.

The food prices, food ratings, food availability and locations are always up-to-date. We do not provide expired menus and also it will be beneficial for all the users so that they can compare the prices from different websites in the same website and get the results in a second.

References

1. M. Erdi Ayob, M. Izwan Ayob, M. Afif Ayob, Khairunnisa K., Ayob J., Mohd. Elmy A. Wahab "The Application of Wireless Food Ordering System" *MASAUM Journal of Computing* 2009.
2. Shamsul Kamal Ahmad Khalid, Mohd Fikry Akmal Mohd Kohar, Noor Azah Samsudin Zulkifli Senin, Mohd Nor Ikhazan, "A customizable wireless food ordering system with real time customer feedback", *IEEE Symposium on Wireless Technology and Applications (ISWTA)* 2011.
3. Online food ordering , From Wikipedia, the free encyclopedia
<https://en.wikipedia.org/wiki/Online_food_ordering>
4. Comparison between Top Online Food Delivery Platforms
<<https://yourstory.com/mystory/comparison-between-top-online-food-ordering-delive-ca191b6ech>>

Architecture

