**Sentiment Analysis**

**MINI PROJECT– I**

**SYNOPSIS**

**BACHELOR OF TECHNOLOGY**

**( SEMESTER – VI )**

COMPUTER SCIENCE & ENGINEERING

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**1. Introduction**

Sentiment analysis can be defined as analyzing the positive or negative sentiment of the customer in text. The contextual analysis of identifying information helps businesses understand their customers’ social sentiment by monitoring online conversations.

As customers express their reviews and thoughts about the brand more openly than ever before, sentiment analysis has become a powerful tool to monitor and understand online conversations. Analyzing customer feedback and reviews automatically through survey responses or social media discussions allows you to learn what makes your customer happy or disappointed. Further, you can use this analysis to tailor your products and services to meet your customer’s needs and make your brand successful.

Recent advancements in machine learning and deep learning have increased the efficiency of sentiment analysis algorithms. You can creatively use advanced [artificial intelligence and machine learning](https://marutitech.com/artificial-intelligence-and-machine-learning/) tools for doing research and draw out the analysis.

For example, sentiment analysis can help you to automatically analyze 5000+ reviews about your brand by discovering whether your customer is happy or not satisfied by your pricing plans and customer services. Therefore, you can say that the application of sentiment is endless.

## Importance Of Sentiment Analysis

The most crucial advantage of sentiment analysis is that it enables you to understand the sentiment of your customers towards your brand. Your products and services can be improved, and you can make more informed decisions by automatically analyzing the customers’ feelings and opinions through social media conversations, reviews, surveys, and more.

According to the survey, 90% of the world’s data is unstructured. Especially in businesses, emails, tickets, chats, social media conversions, and documents are generated daily. Therefore, it is hard to analyze all this vast data in a timely and efficient manner.

## Objective and Scope of the Project

The objective of the system  The researcher aims to create or develop a system that is capable and reliable in the whole transaction flow such as tracking, retrieving and storing data in an appropriate way.

In particular it aims to:

* Provide a database that will store information.
* Develop a system that will lessen process delay in terms of releasing receipts and customer bill.
* Provide summary reports of daily and monthly sales including reservation reports.
* Design system that could accommodate reservation transactions from customers.
* Provide security of two levels of users.

Scope of the project:

This billing system focus on the development of an information system that will manual transaction in Beatriz Food and automate Cafe.

However, the study has focused on the following:

* It will generate receipt on every transaction inputted to the system.
* The software will display view of calculations of every transaction.
* For security and privacy of the management, the Billing System comply two log-in users with different The access level.
* The system will store and recognize customer reservations.

3. Literature Review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Author** | **Methodology** | **Year** | **Abstract** |
| **1.** | Manzini Takavingofa, Great Zimbabwe University, “Manzlee Retail Management System”, May 2006 | Characterization of billing  system | 2006 | Paperless billing is a process that businesses can use to get paid quickly and securely without dealing with the hassles of paper bills and check payments. Paperless bills allow bill delivery and payment to take place completely online, which improves efficiency while reducing costs. Paperless billing is most helpful for businesses that send recurring bills to customers |
| **2.** | Muzhir Shaban Al-Ani  Collage of Computer ScienceAnbar UiversityAnbar, Iraq | Billing System, Internet Billing system , E-Commerce, E-bank, bill payment, Authentication, Securit | 2014 | ImageNet aims to populate the majority of the 80,000 synsets of WordNet with an average of 500-1000 clean and full resolution images. This will result in tens of millions of annotated images organized by the semantic hierarchy of WordNet. This paper offers a detailed analysis of ImageNet in its current state: 12 subtrees with 5247 synsets and 3.2 million images in total. We show that ImageNet is much |
| **3.** | Albert Levi, Cetin Kaya Koc (2009) | Internet TV Billing | 2009 | In their paperthe authors proposed a new Internet e-paymentprotocol, namely CONSEPP (Convenient and SecureE-Payment Protocol), based on the account authoritymodel of ANSI (American National Standards Institute) X9.59 standard. CONSEPP is thespecialized version of X9.59 for Internet transactions(X9.59 is multi-purpose). In CONSEPP the authorspropose a lightweight method to avoid the need formerchant certificates. Moreover, the authors proposea simple method for secure shopping. | |
| **4.** | NN Murthy, et al.(2000) | E-commerce online | 2000 | the technologies fore-commerce The authors also present TWINS (TwinCities Information Network Service) test-bedapplication being developed as part of this project.TWINS, operational at twin cities of Hyderabad-Secunderabad, facilitates payment of various utilitybill payment (like water, electricity, etc.) through asingle window system. Payment of water billsthrough Internet. | |
| **5.** | P.S. Barreto,et al  .  (2005) | A Study of Billing Schemes in an Experimental Next Generation Network | 2005 | In their paper, the authorspresented a discussion concerning the performance offour network scenarios for billing purposes. Using theresults of packet losses in an experimental platformsimulating a NGN (Next Generation Network)environment, the authors evaluate on each scenariothe impact in the billing process with different trafficflows comparing the total revenue calculus for twobilling schemes: | |

**4. Methodology**

In the process of developing the Billing System for Beatriz Food and Café, step by step procedures are followed. These are the following:

* **Planning and Data Gathering**

Researchers conducted interview to the chosen respondent by asking them several questions with regards to the current process of transactions they are presently using and take note of the important elements that would help in alleviating of options in the whole process.

* **Data Analysis and Problem Identification**

Based on the gathered data from the interview made in the industry partner that has been organize and process, the existing problem has been identified. Through tremendous analysis that has been made and planned afterwards a Billing System was proposed for the company that sought to the problem.

Objectives, scope and limitations of the study and its significance has been set as part of the system development.

* **System Model and Design**

This phase focus on showing the possible process related to the development of the system. It involves the construction of conceptual framework that shows possible process related to the system development.

Subsequently, the analyze information and process is put into a design as a basis pattern for easy development of the system interface. Prototype was made based on the company’s preferred design and looks.

* **Software Development**

This system involve in the system development. The design interface of the system was made into action. Software requirements such as **Visual Basic 6.0** that serves as the program language of the system and **MSACCESS 2007 or 2010**as the system database.

System coding is also part of the development. More or less 3 months is essential for the completion of the system excluding the software testing, reengineering, user training and implementation that will allocate another month.

* **System Testing and Implementation**

This isone of the most vital phases in system development. Here is where to measure the system usability, performance according to its features, function and impact or aid to the user needs.

System implementation shall be done after checking of errors and it will be an immense help to the industries upgrading.

* **Evaluation and Recommendation**

Evaluation and recommendation shall be done by the system user base on the systems usability, function and interface.

**5. Hardware Required**

* DEVICE :- Dell latitude E5470
* RAM:- 8 GB
* STORAGE :- 256 GB SSD
* OS :- WINDOWS 10

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## 6. Software Required

1. **Database**

* Google Sheets

1. **Connection**

* Javascript

1. **Development**

* VS code
* Html
* Css
* Java script

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Particulars** | **Cost** | **Remark** |
| 1 | Operating system | 4000 | (Windows XP,7,8,9,10,11) |
| 2 | Development | 8000 | Includes laptops, software’s etc. |
| 3 | Deployment and Hosting | 10000 | Server and domain name |
| 4 | Total Cost | 22000 | Approximately |

**7. Estimation**

**8. Project Timeline**

**1** **September 2022 to 15 October 2022**

Domain & Title of Project

**15 Oct. 2022 to 15 Nov. 2022**

Requirement Analysis and Information Gathering

(Data Collection)

**15 Nov. 2022 to 15 Dec. 2022**

Design, Development and testing

**15 Dec. 2022 to 25 Dec. 2022**

Documentation & Demonstration

## 9.References

## Websites:

* <https://www.freeprojectz.com/project-report/204>
* <http://ignousupport.blogspot.com/p/general-store-billing-system-project.html?m=1>
* <https://www.powershow.com/view/2ab99b-Y2YzM/Billing_System_Software_powerpoint_ppt_presentation>
* <http://ignousupport.blogspot.com/p/general-store-billing-system-project.html?m=1>
* <https://www.slideshare.net/ChandniSharma42/billing-project>

**Research Paper :**

* Manzini Takavingofa, Great Zimbabwe University, “Manzlee Retail Management System”, May 2006 “Characterization of billing

system”

* Muzhir Shaban Al-Ani Collage of Computer ScienceAnbar UiversityAnbar, Iraq “Billing System, Internet Billing system , E-Commerce, E-bank, bill payment, Authentication, Securit” 2014
* P.S. Barreto,et al(2005) “A Study of Billing Schemes in an Experimental Next Generation Network”
* Albert Levi, Cetin Kaya Koc (2009) Internet TV Billing.
* NN Murthy, et al.(2000) “E-commerce online”

**Books :**

* E-Billing System by Using MIS Concept