Authenticated Billing System

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Content

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Introduction

Objective

Earlier
Working
Method

Proposed
System

System
Requirement
Specification

Feasibility

- Billing system is an application to automate the process of ordering and billing of a Cafeteria.

- This desktop application is designed considering the chain of Cafeteria which is located in various colleges.

- Cafeteria is the place where customers come and pay for their item.There is a need to calculate how many item are taken and to generate the bill for the customer.

- A system will itself calculate the bill and save record.

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- Many canteens of Cafeteria use this type of billing system for a decade. It is also improved many times according to requirements of customers. It does the same work that is calculating the bill, gives it to the customer and maintain proper database.They are accurate in calculation and printing, they also generate records.

- A new concept is also added in the billing system is that they also maintain relationships with the customers who purchase more products from the canteen regularly. System also concerns their requirements.

Earlier Working Method

- In early days, the accounts running in canteen and mess store transactions in pen and paper and there is almost no authentication in making such payments, as the customer making the purchase just uses his ID number as identity which can very easily faked by someone else.

- Also this involves a lot of paperwork on the side of the mess/canteen worker, and may also lead to some calculation errors on their part due to the human involvement in making bills.

- It is very difficult to handle all these records and maintain it. Sometimes the record may be lost by administrator so that information can not retrive again.

- The system provides managing of huge data effectively and efficiently for efficient results, storing the details of the customers, items and bills etc. in such a way that the database can be modified.

- The system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently.

- The system either does not require paper work or very few paper works is required.

- Instead of saving records manually and calculate bill manually in crowd,administrator can save information for the items using authenticated billing system.

- The system avoid mistakes in manual calculations.

System Requirement Specification

Hardware Requirements

- 4 gb of disk memory or disk partition
- 1GB of RAM or main memory
- AMD/Intel 32-bit or 64-bit Processor

Software Requirements

- CPU configuration:-Intel processors i5/i3
- Operating System:-Windows 8.1/7
- Programming Language:- Java
- Tools:- NetBeans, JCreator
- Database Tool:- Microsoft Access

Technical Feasibility

- The front end used in the system java; supports event driven programming features.

- The MS ACCESS is the back end.It is easier to use as it stores the data in the form of simple table.

- The platform used for developing the applications is windows 8.1 which is easily available.

- There is no more hardware required other than the personal device for its execution.

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Earlier
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Method

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System
Requirement
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Behavioral Feasibility

- The administrator can add, delete and edit the information if required, The code can be developed in the languages like java,.net ,c# ,etc.

- The code is flexible and can be easily modified,One can also use different platforms Linux or any other operating system because the java is platform independent.

- The use of swing makes the behaviour event driven.Operating system is also easily available.

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Method

Proposed
System

System
Requirement
Specification

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Economical Feasibility

- The system calculates bills faster than manual calculations.
- The system it self calculates bills so ultimately manpower cost is almost negligible.
- There is no more hardware required other than the personal device for its execution.
- The code is flexible and can be easily modified so the software cost reduces and everyone can afford it.

Work Flow

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1. Create database on any drive.
2. Open control panel -administrative tools-Data source(odbc).
3. Click add button then click on Microsoft Access Driver(.mdb,.accdb).
4. Click Select then choose drive where is your database.
5. Select Billing System
6. Then give name as Billing System and press OK button.
7. Install Java and NetBeans/jCreator
8. Now run the project.

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Working
Method

Proposed
System

System
Requirement
Specification

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- The system reduces much of the human efforts in calculating bill especially for huge product.
- The system saves money and resources of organizations and excludes of use of paper or sheets in market bill.
- It can detect the Product information and their price instantaneously using billing technology.
- It can be done faster with the large number of softwares.
- It saves time.
- It provide accuracy and faultless in billing calculations.
- The system is designed having attractive Graphical User Interface and with detailed description.
- It is flexible and user-friendly.

- If the data is in huge number then the file size is huge.
- It require large database if the customers are more in number.
- If this technique is gone in the wrong hands then this can be lossy to the administrator.

- It will help the administrator in fast billing.
- It enable administrator to maintain a great database of all customers visited and purchase item from cafeteria.
- It will enable to see report regarding item.
- It is easy to maintain in future prospect.

Conclusion

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- The system reduces much of the human efforts in calculating bill especially for huge product.
- It is easily understandable to everyone as it has attractive GUI.So the objective of reducing time in calculating bills is fulfilled.
- The application can be easily implemented.Anyone can afford it.User friendly environment is provided by the application.

- One can also use finger print scanner or biometric device to make the system more secure.
- Also the authentication may be provided to each customer so he/she can make entries in the account safely especially when used in a mess.

References

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Thank You...