

Amber Bakery Automated Billing System Software Requirements Specification (SRS)

Version 1.0

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1. Introduction

A software program called the Amber Bakery Automated Billing System is used to manage bakery products, sales, and business information for the Amber Bakery. The specifications for creating this system are laid out in this document.

2. Objective

The Amber Bakery Automated Billing System's main objective is to simplify and automate the management of the bakery's inventory, sales, and clientele. It aims to boost accuracy and efficiency in handling sales transactions and keeping track of bakery items.

3. Scope

The system's primary components will be as follows:

- User registration and authentication
- View Bakery Items
- Manage Bakery Items
- Manage Sales
- View Sales Details
- Logout

4. System Description

4.1 User Authentication and Login

- Users must enter their username and password in order to log in.
- The authentication process will use a predefined username and password (username: "Anushka", password: "1111").
- A message will be displayed in the event of a failed login attempt, and the program will end.

4.2. Viewing Bakery Items

- A list of bakery items, complete with IDs, names, and prices, is available to users.
- The "bakery_items.txt" file, which contains the list of bakery items, is loaded.

4.3. Organizing bakery products

- The ID, name, and price of new bakery items can be added by users.
- The "bakery_items.txt" file is updated with new bakery items.

4.4. Managing Sales

- Users can enter the item ID, customer name, and total amount to record sales transactions.
- The "sales.txt" file contains a record of all sales transactions.
- The names and prices of several bakery items may be included in each sale.

4.5. Viewing Company Information

- Users can view the Amber Bakery's contact information, including its address, phone number, email address, and business hours.

4.6. Logging Out

- Users have the option to log out, which takes them back to the login screen.

5. Functional Requirements

5.1. User Authentication

- Using the pre-set username and password, the system must authenticate users.
- Program termination will occur if login attempts are unsuccessful.

5.2. Viewing Bakery Items

- The "bakery_items.txt" file contains a list of bakery items that users can view.

5.3. Managing Bakery Items

- The ID, name, and price of new bakery items can be added by users.
- The "bakery_items.txt" file will be updated as new items are added.

5.4. Managing Sales

- Users can enter item IDs, customer names, and total amounts to record sales transactions.
- The "sales.txt" file will contain a record of all sales transactions.

5.5. Viewing Company Details

- Users can view the company's contact information, such as its address, phone number, email address, and business hours.

5.6. Logging Out

- Users can log out of the system.

6. Non-Functional Requirements

6.1. User Interface

- The user interface needs to be simple to use and intuitive.
- Menu options should be displayed clearly by the system.

6.2. Data Storage

- Text files named "bakery_items.txt" and "sales.txt" should be used to store data (including sales and bakery items).
- Data should be efficiently loaded from and saved to these files.

6.3. Security

- User login information needs to be verified and stored securely.
- Unapproved access ought to be avoided.

7. System Constraints

- C++ is used to implement the system.
- It stores data in text files.
- Operating systems for Windows are used by the system.

8. Glossary

- SRS: Software Requirements Statement Specification
- ID: A bakery item's identification number or special code
- GUI: Graphical User Interface

9. Conclusion

The automated billing system for Amber Bakery is intended to enhance the management of bakery products and sales for the bakery. It offers user authentication, item management, sales recording, and access to business information functionality. The development team can effectively implement these requirements with the help of this SRS document.