

MINI PROJECT
(2020-21)

BILLING SOFTWARE

Mid-Term Progress Report



Institute of Engineering & Technology

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Abstract

Billing Software System is an integrated electronic billing system for managing all aspects of a store's operations such as calculating the cost for each billing record, collecting payments received from the customer in any mode(i.e., cash, card etc) and updating the customers details.It stores the details of employees, customers and items sold in shop and also update every details.. It includes electronic business records. The admin can maintain and edit the employee's details (i.e., name, password and contact no.) and regularly update them in admin panel. It enables the admin to add items and its details in the database. The system can be used to store stock data efficiently and this convenient system of working will take away all the major concerns and helps in smooth functioning of business. It is easy to run business fast with such type of system. This system is implemented using a 3-tier approach, with a backend database (MySQL), JDBC to give connectivity to various tables and Swing to design required Graphic User Interfaces in the software.

Introduction

Objective

The aim of this project is to make application that can generate bills and update records of employee and customers. The system must be able to collect payment as well as add items to the stock. It will also store details for selling in stock data. The aim is to illustrate the basic billing system and main functionalities that surround billing system and explains how each person interacts to complete the billing cycle and to perform billing for customers in an efficient way. Objective is to enable admin to add items and its details in the database and enable admin to maintain and edit employee's details (i.e., name, password and contact no.) and regularly update them in admin panel. It will also collect the payment for the specific product in any mode (i.e., cash, card etc.) from the customer.

What is Billing System Software?

The project Billing Software is an application in java which performs the process of billing of the store. Billing Software is the delivery of electronic bill and providing payment options for them and the billing process involves calculating the cost for each billing record, collecting payments received from the customer in any mode(i.e., cash, card etc) and updating the customers details. It provides a convenient solution of traditional billing system pattern and make an easy way to use environment for admin and employee with high economic feature built in it. It stores the details of employee, customer and items sold in shop and also update every details.

Technology Used

Swing has been used to design the required Graphic User Interfaces in the software while **Java** has been used to design the code. **JDBC** has been used to give connectivity to various tables.

Requirements

Hardware Requirements

- Personal computer with internet connection
- i3 Processor Based Computer or Higher
- Memory: 2 GB RAM(Minimum)
- Hard Drive: 5 GB(Minimum)

Software Requirements

- Windows 7 or Higher / MacOS 10.14.6 or Higher
- IntelliJ IDE
- Java SDK 14
- Xampp

Frontend Tools

- Java Swing

Backend Tools

- Java JDBC
- Xampp

Methodology

Project Research

The implementation, understanding and testing stage are primarily the most important part because we analyse here and set the road ahead for the entire project.

Firstly, we understand the process that how billing process works for which we're creating a billing system and generate ideas for how it's GUI should look like and function.

Software Design

Next comes the fun part. Deciding how our website should look like. Also giving admin and employee enhanced experience of billing.

Implementation & Testing

Now comes the main part, we divide this part into following sub-parts, admin panel, changepwd panel and edit employee panel.

Implementation

Description

- To perform billing for customers in an efficient way.
- To enable admin to add items and its details in the database.
- To enable admin to maintain and edit employee's details (i.e., name, password and contact no.) and regularly update them in admin panel.
- To collect the payment for the specific product in any mode (i.e., cash, card etc.) from the customer.

System Details

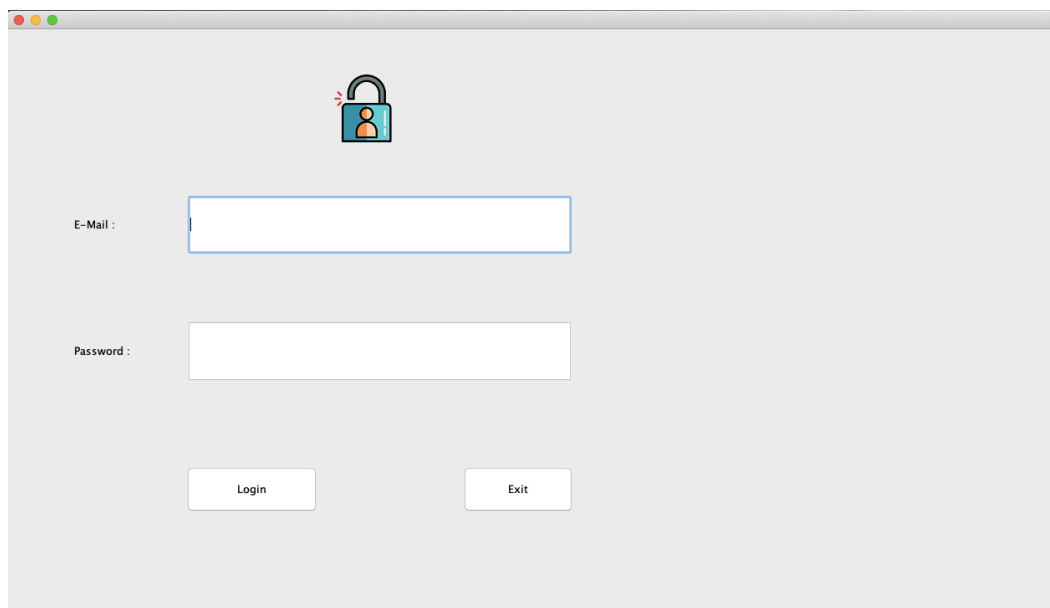
- Start panel
- Login page
- Admin panel page
- Add employee page
- Add employee successfully page
- Edit employee page
- Edit employee successfully page
- Add item page
- Add item successfully page
- Edit item page
- Edit item successfully page
- Change password page
- Change password successfully page

Detailed Description of pages

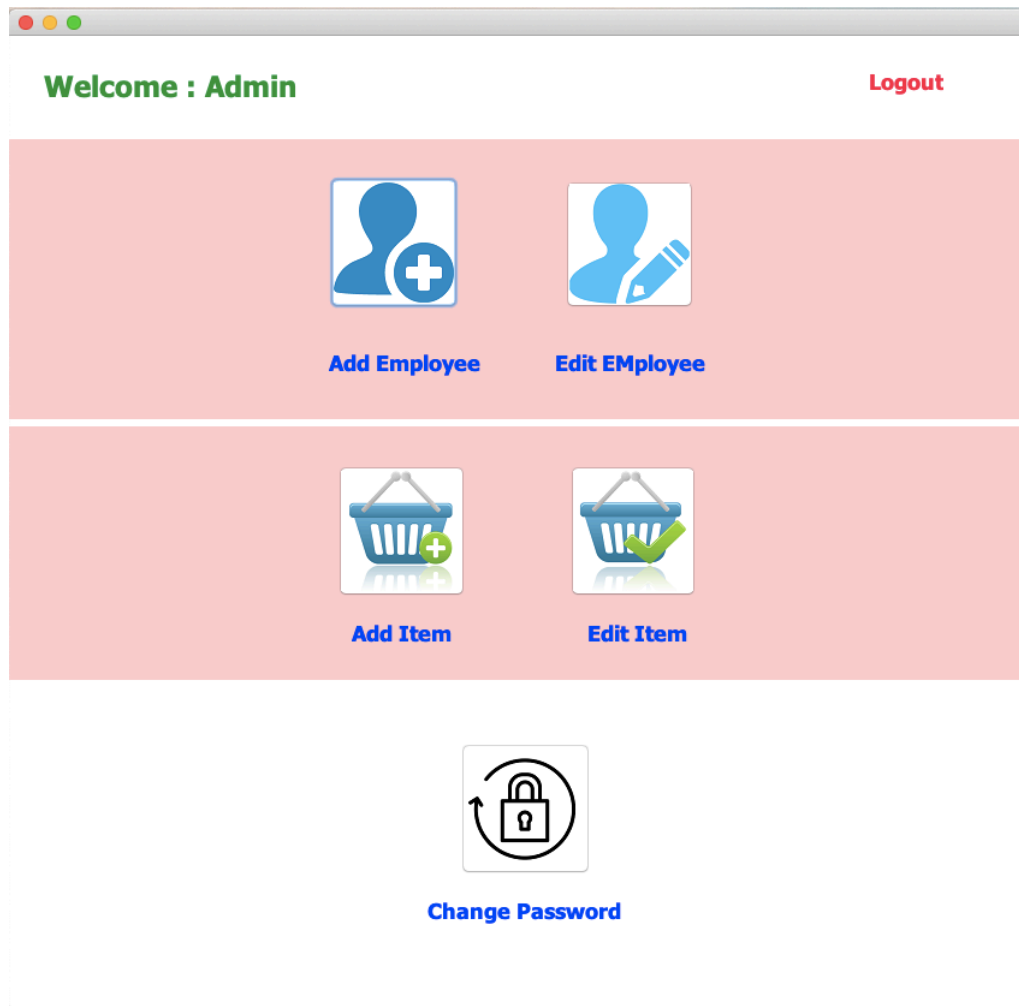
1. **Start Panel** : This page is showing at first when we running software.



2. **Login Page** : Here admin and employee both can login for their task.



3. **Admin Panel :** When admin login then this page open.



4. **Add Employee :** When admin want to register any employee then this page open.

The screenshot shows a web application window titled "Add Employee". At the top left, there is a "Back" link in red. The form contains four input fields: "Name" with the value "Rajan", "Email :" with the value "rajan@gmail.com", "Password :" with a masked password "*****", and "Phone No :" with the value "9876543210". Below the input fields is a "Register" button.

5. **Add Employee Successful** : When employee get registered successfully then this prompt show.

The screenshot shows a web application window with a 'Back' button in the top left. The form contains four input fields: 'Name' (filled with 'Ravali'), 'Email :' (filled with 'ravali@gmail.com'), 'Password :' (filled with dots), and 'Phone No :' (filled with '1234567890'). A 'Register' button is at the bottom center. A modal message box is displayed over the form, titled 'Message', containing a coffee cup icon and the text 'Employee registered successfully', with an 'OK' button.

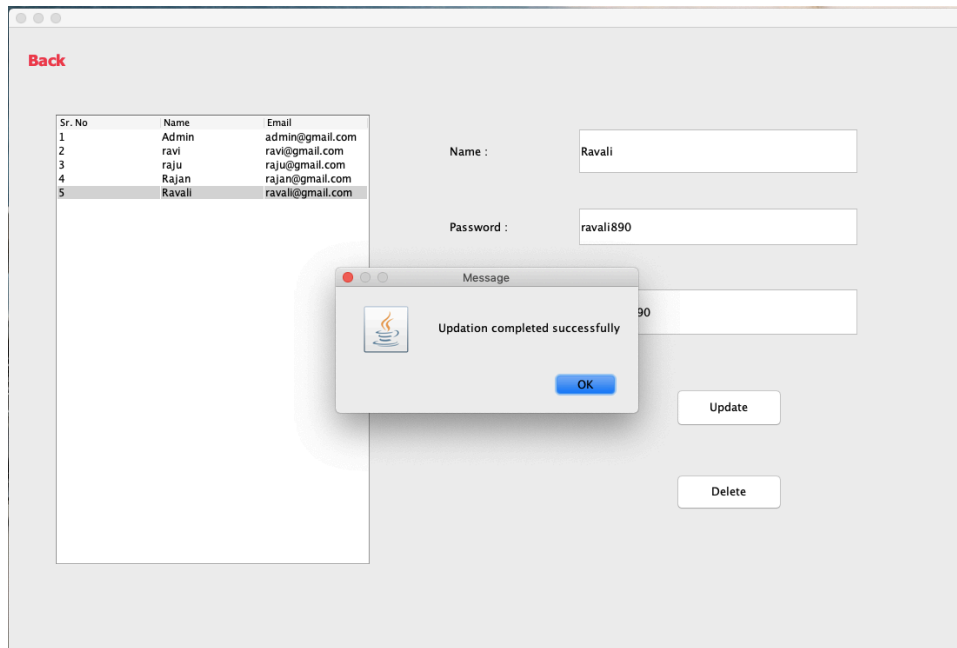
6. **Edit Employee** : This page shown when admin want to update or delete employee credentials.

The screenshot shows a web application window with a 'Back' button in the top left. On the left, there is a table with employee data:

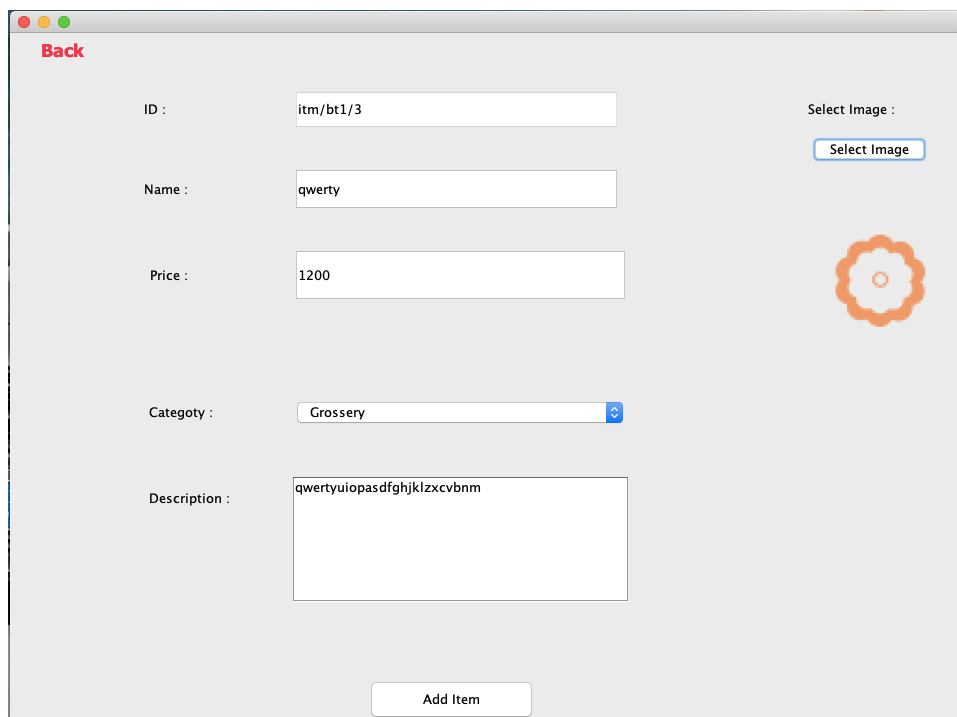
Sr. No	Name	Email
1	Admin	admin@gmail.com
2	ravi	ravi@gmail.com
3	raju	raju@gmail.com
4	Rajan	rajan@gmail.com

The row with 'Rajan' is selected. To the right of the table are three input fields: 'Name :' (filled with 'Rajan'), 'Password :' (filled with 'rajan123'), and 'Phone No :' (filled with '9876543210'). Below these fields are two buttons: 'Update' and 'Delete'.

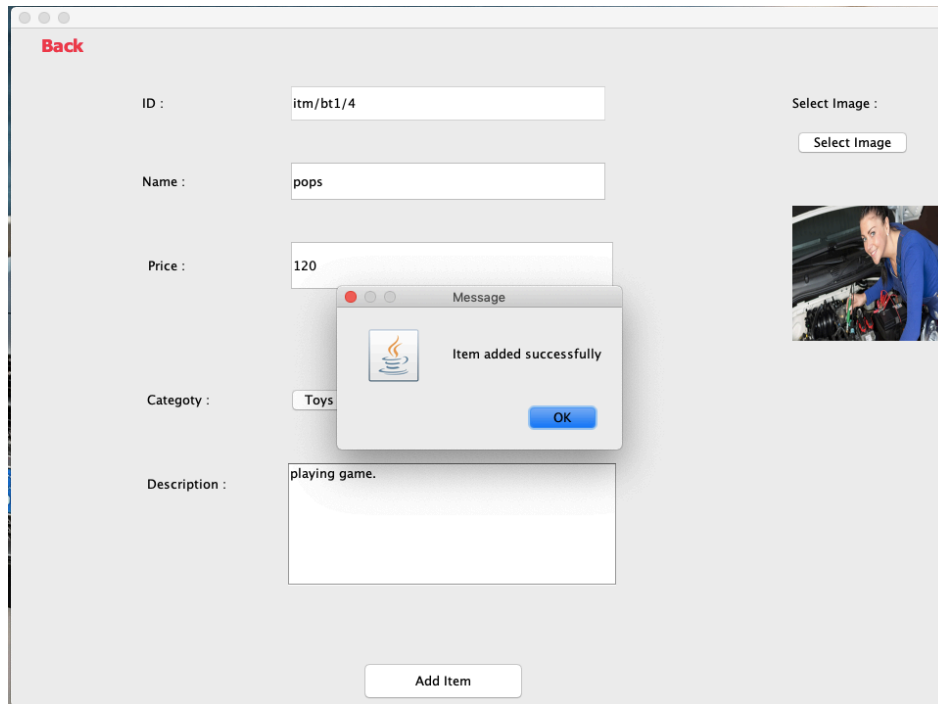
7. **Edit Employee Successful** : When employee details get updated successfully then this prompt show.



8. **Add Item** : This page open when admin want to add any item in their stock.

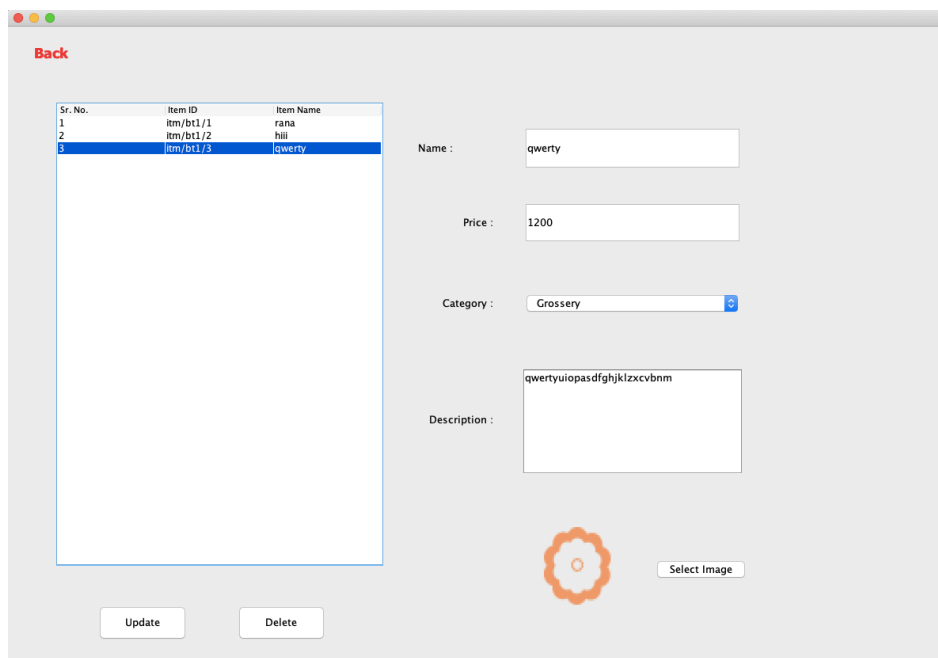


9. **Add Item Successful :** This prompt show when the item get added successfully in the stock.



The screenshot shows a web application window titled "Add Item". It contains several input fields: "ID" with the value "itm/bt1/4", "Name" with "pops", "Price" with "120", "Category" with a dropdown menu showing "Toys", and "Description" with "playing game.". There is a "Select Image" button and a "Back" link. A modal message box is displayed in the center, stating "Item added successfully" with an "OK" button. A small image of a person working on a car is visible on the right side of the form.

10. **Edit Item :** This page open when admin want to edit the details of item in their stock.



The screenshot shows a web application window titled "Edit Item". It features a table on the left with columns "Sr.No.", "Item ID", and "Item Name". The table has three rows: 1 (itm/bt1/1, rana), 2 (itm/bt1/2, hili), and 3 (itm/bt1/3, query). The third row is selected. To the right of the table are input fields for "Name" (query), "Price" (1200), "Category" (Grossery), and "Description" (qwertyuiopasdfghjklzxcvbnm). There is a "Select Image" button with a gear icon. At the bottom, there are "Update" and "Delete" buttons. A "Back" link is in the top left corner.

Sr.No.	Item ID	Item Name
1	itm/bt1/1	rana
2	itm/bt1/2	hili
3	itm/bt1/3	query

11. **Edit Item Successful :** This prompt show when item details get updated successfully.

The screenshot shows a web application interface for editing an item. At the top left is a red 'Back' link. Below it is a table with the following data:

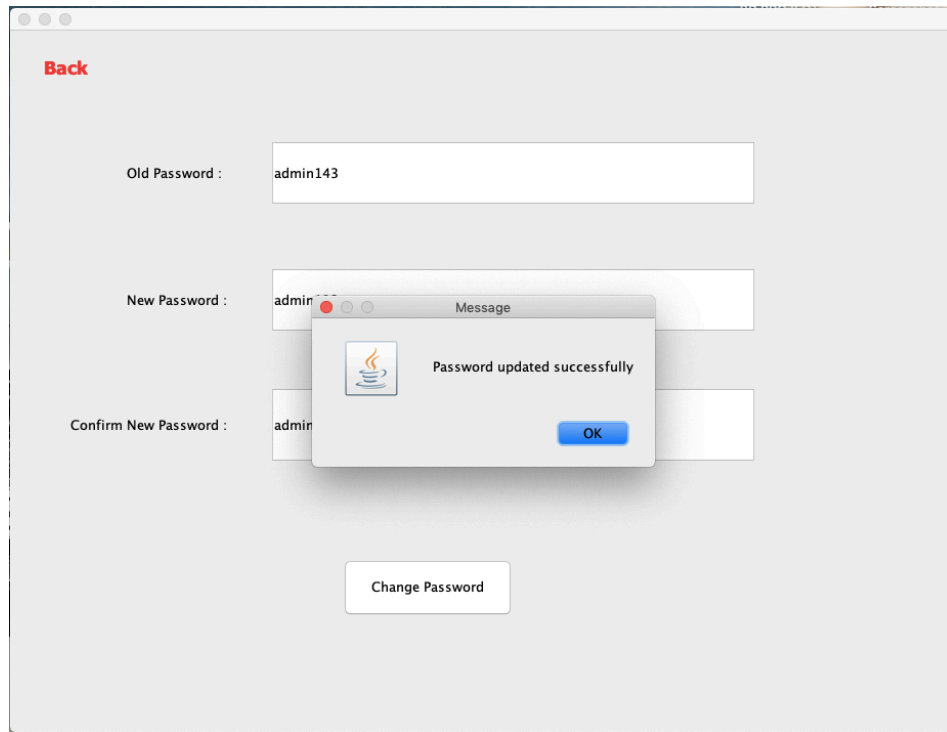
Sr. No.	Item ID	Item Name
1	itm/bt1/1	rana
2	itm/bt1/2	hihi
3	itm/bt1/3	qwerty
4	itm/bt1/4	pops

To the right of the table are input fields for 'Name' (containing 'pops') and 'Price' (containing '121'). Below these is a 'Description' label and a large text area. At the bottom left are 'Update' and 'Delete' buttons. At the bottom right is an image selection area with a thumbnail of a person and a 'Select Image' button. A modal message box is centered on the screen, displaying a success icon, the text 'Item updated successfully', and an 'OK' button.

12. **Change Password :** This page open when admin want to change their own password.

The screenshot shows a web application interface for changing a password. At the top left is a red 'Back' link. Below it are three input fields labeled 'Old Password', 'New Password', and 'Confirm New Password'. At the bottom center is a 'Change Password' button.

13. **Change Password Successful :** This prompt show when password get updated successfully.



Contribution Summary

This project is divided into two major module namely **Admin** and **Employee**.

Admin module is further divided in 6 classes for each functionality.

- **StartProject** is designed by Prathmesh Kumar Saini.
- **Login** is designed by Prathmesh Kumar Saini.
- **AdminPanel** is designed by Latesh Kumari.
- **RegisterEmployee** is designed by Sonal Singh.
- **EditEmployee** is designed by Bharti Sharma.
- **AddItem** is designed by Prathmesh Kumar Saini.
- **EditItem** is designed by Suryansh Naugraiya.
- **ChangePwd** is designed by Suryansh Naugraiya.

Work Done

- Start Panel created
- Login page completed
- Admin module completed

Work Left

- Employee Module left

References

- <https://www.w3schools.com>
- <https://www.javatpoint.com>
- <https://courses.smartprogramming.in/learn/home>
- www.youtube.com