



Billing management System (Cash & Carry)

Software Engineering II (CSE 2100)

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ABSTRACT

The project titled “Billing Management System” is a web-based system that is designed to handle time and billing tracking as well as invoicing customer for services and products. It automates the process of collecting payments, sending out recurring invoices, expense tracking, and invoice tracking. With this system, the user can easily collect the payments and also can easily track the expenses. Billing Management System plays an important role in collecting the bills and have the track of the invoices automatically. Like in the shopping malls, different commercial stores, or super shops, they use this management system to automate the billing process. The project will be developed in Net beans 8.2 and database management system will be handled by MySQL. In this software there will have a loading page, login page, homepage, Buyer information, Product information. Here the user can easily login into the server using the username and password and can easily enter into the homepage. The home page will be designed with all the features to execute the software according to our preference.

Overall, the “Billing Management System” will make the billing process much easier because of which both the seller and customer will be benefited.

Software Platform:

- ❖ The project will be developed using Java Swing
- ❖ Net beans 8.2
- ❖ MySQL server

Identification of functional requirements:

➤ Loading Page:

Loading page is the starting page of our project. A button named “Cash & Carry” is present in the loading page. Pressing the button takes the user to the login page.

➤ Login Page:

The user log into the system by entering the username and the password. There is a show-password Button under the password field. While typing, if the user feels his/her identification password was mistaken, then to recheck the password before pressing the login button, that button will show the password in character. If the password and the username matches, then the user will have the access to the entire system.

➤ **Home Page:**

After Log into the system correctly, the home page will be visible. This page contains all the functionalities that is required in this management system. There is a button to show all the options and the features of our project like – Buyer details, Update buyer, add buyer, Product details, Update product, Delete Product etc. These options come to the home page one by one after 250 milliseconds. This feature was executed to this project using the multithreading function.

➤ **Buyer:**

- **New Buyer:**

This option adds all the information of a new buyer to the system that stores into the database. Name, Email Address, Contact no. Gender etc. are taken as an input of a new buyer.

- **Update Buyer:**

Admin can update the buyer details by searching the Buyer using his/her contact no. Admin can update any information of that buyer using this feature.

- **Buyer Details:**

This feature shows us all the details of the buyer in a table taking the information from the database.

- **Delete Buyer:**

Admin can delete all the information of a buyer from the database easily using this option. A buyer's details can be completely erased from the database using this feature.

➤ **Product:**

- **New Product:**

Information of a new product is added to the database using this option. Admin can add the details about the product using this feature, like-product name, product description, product rate, availability of the product. Product Id gets autogenerated. This Product Id is used in the further features of this project.

- **Update Product:**

Like the Update buyer option, Admin can update the product details in this feature. After updating, by clicking the update button all the information will be updated in the database.

- **Product Details:**

This option shows all the details about the product in a table taking the information from the database.

- **Delete Product:**

If the buyer wants to remove a product, admin can delete that from the database by searching the product using the product Id.

➤ **Billing:**

This is the final output of our project. Admin can add the required information of the buyers just by giving the contact no. of that particular buyer. After that, products can be added in the same manner. Admin takes the input of the quantity of the product, that generates the total amount of the products that was sold. Admin takes the input of the paid amount and then the returned amount is shown.

➤ **PDF Generator:**

This feature gives a final bill of all the details of the buyer, product, quantity of the sold product, paid amount etc. in a PDF format with the details of the admin's contact no and some Other formal writing.

➤ **Log Out:**

This Logout Option allows the admin to logout from the system and takes the admin to the login page.

➤ **Close App:**

This feature allows the admin to close the whole application or system.

Functionalities for the future version:

➤ **Membership card:**

If the Buyer has a membership card, then he/she will receive a certain amount of discount from the shop. If a new Buyer wants, he/she can take a membership card from the shop using this feature.

➤ **Discount offers:**

Any buyer can receive a discount amount from the shop, if there is any available discount in a particular product.

Table 01: Identifier and priority for software requirement

| # | Requirement | Priority |
|----|-----------------|----------|
| R1 | Loading page | High |
| R2 | Login page | High |
| R3 | Home page | High |
| R4 | Buyer windows | High |
| R5 | Product windows | High |
| R6 | Billing | High |
| R7 | PDF Generator | Medium |
| R8 | Log Out | Medium |
| R9 | Close App | High |