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Coursework Title: Java Project Report

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Programme: BSc (Hons) Software Engineering

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# Java Project Report

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SOFT255SL

## Group Members

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## **1. Introduction**

We have developed a quick billing system which can be implemented in any shop. We have used netbeans and java swing to develop this product. The reason for us to building this system is to improve the cashier's performance and provide authenticity and nonrepudiation to the shop. When transactions are done without using a billing system people can cheat the system, and if a person wants to return a product there is no way to verify that the product was bought from that shop. Our system has been developed to solve those problems.

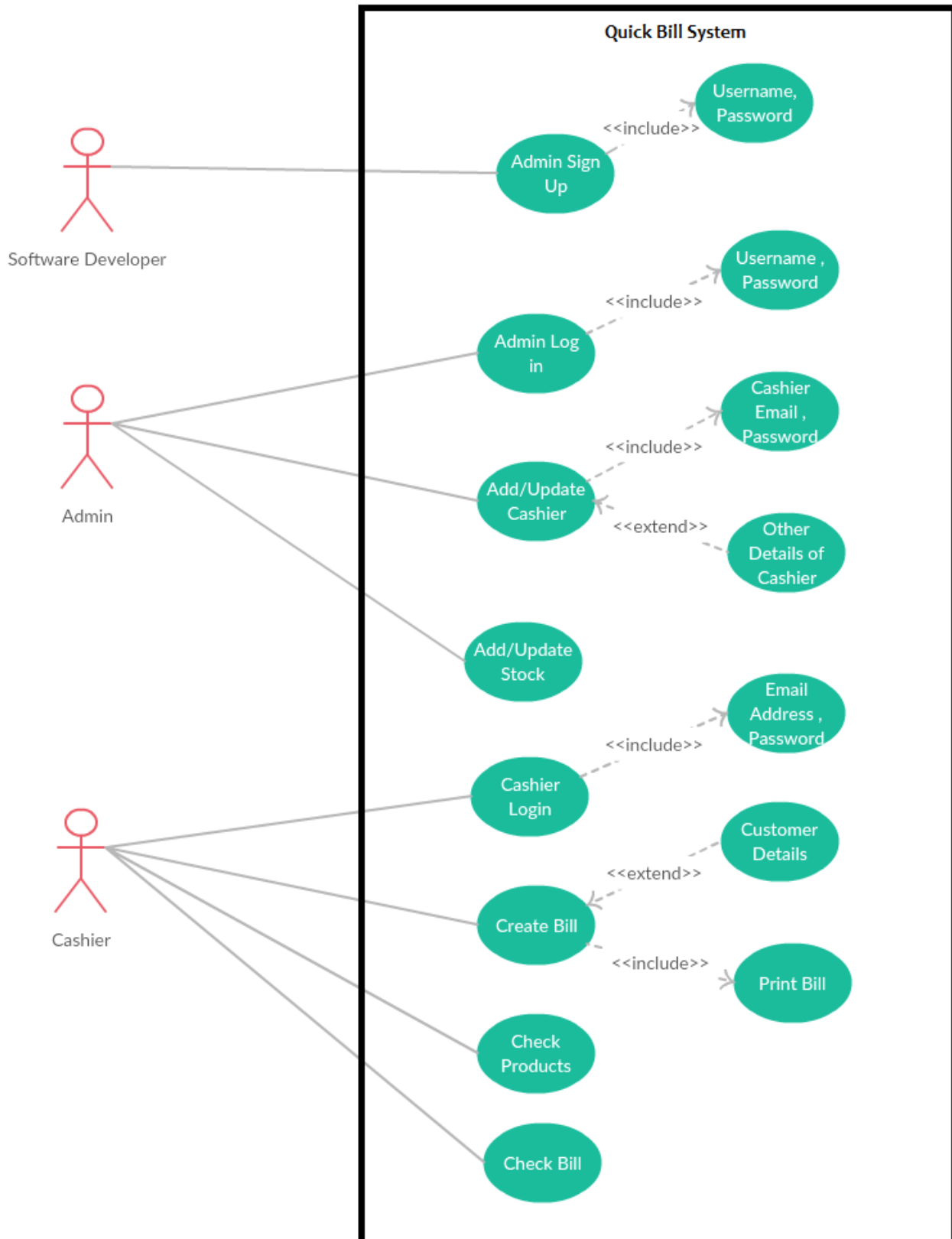
This billing system is comprised of much functionality.

### **1.1 Functions of the system**

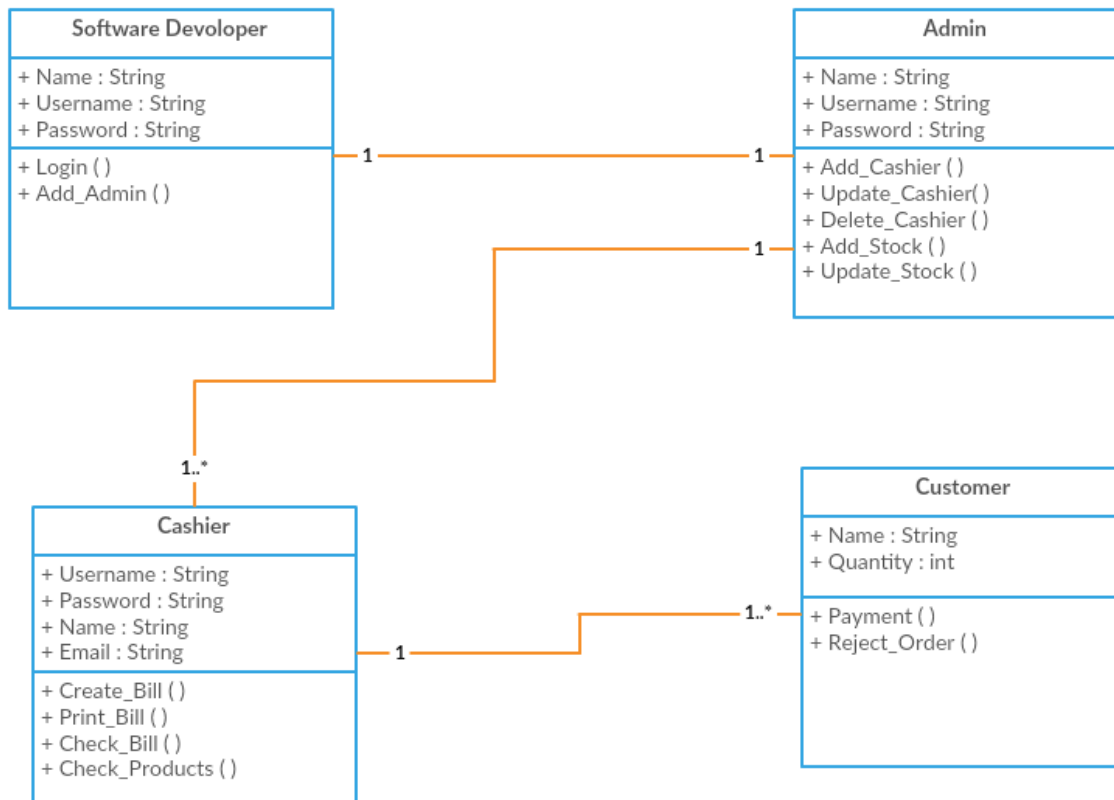
- Ability to login as a cashier as well as admin.
- Add or update cashier details.
- Add or Update stock.
- Create bills and Print Them.
- Check product information.
- Search bill.

## 2. UML Diagrams

### 2.1 Use Case Diagram



## 2.2 Class Diagram



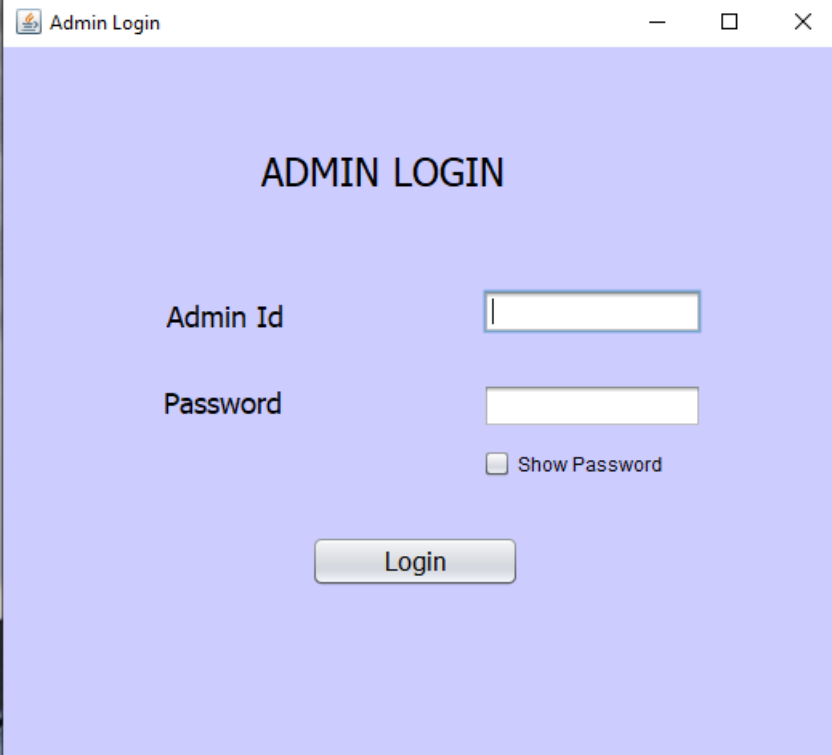
### 3. Screenshots of GUI Application

#### 3.1 Chose Login



- You can chose to login as a admin or cashier through here.

## 3.2 Admin Login



A screenshot of a web application window titled "Admin Login". The window has a light blue background and a title bar with standard minimize, maximize, and close buttons. The main content area contains the text "ADMIN LOGIN" in bold, centered. Below this, there are two input fields: "Admin Id" and "Password". The "Admin Id" field is a simple text box with a cursor. The "Password" field is a text box with a small "Show Password" checkbox to its right. Below the password field is a "Login" button.

Admin Login

ADMIN LOGIN

Admin Id

Password

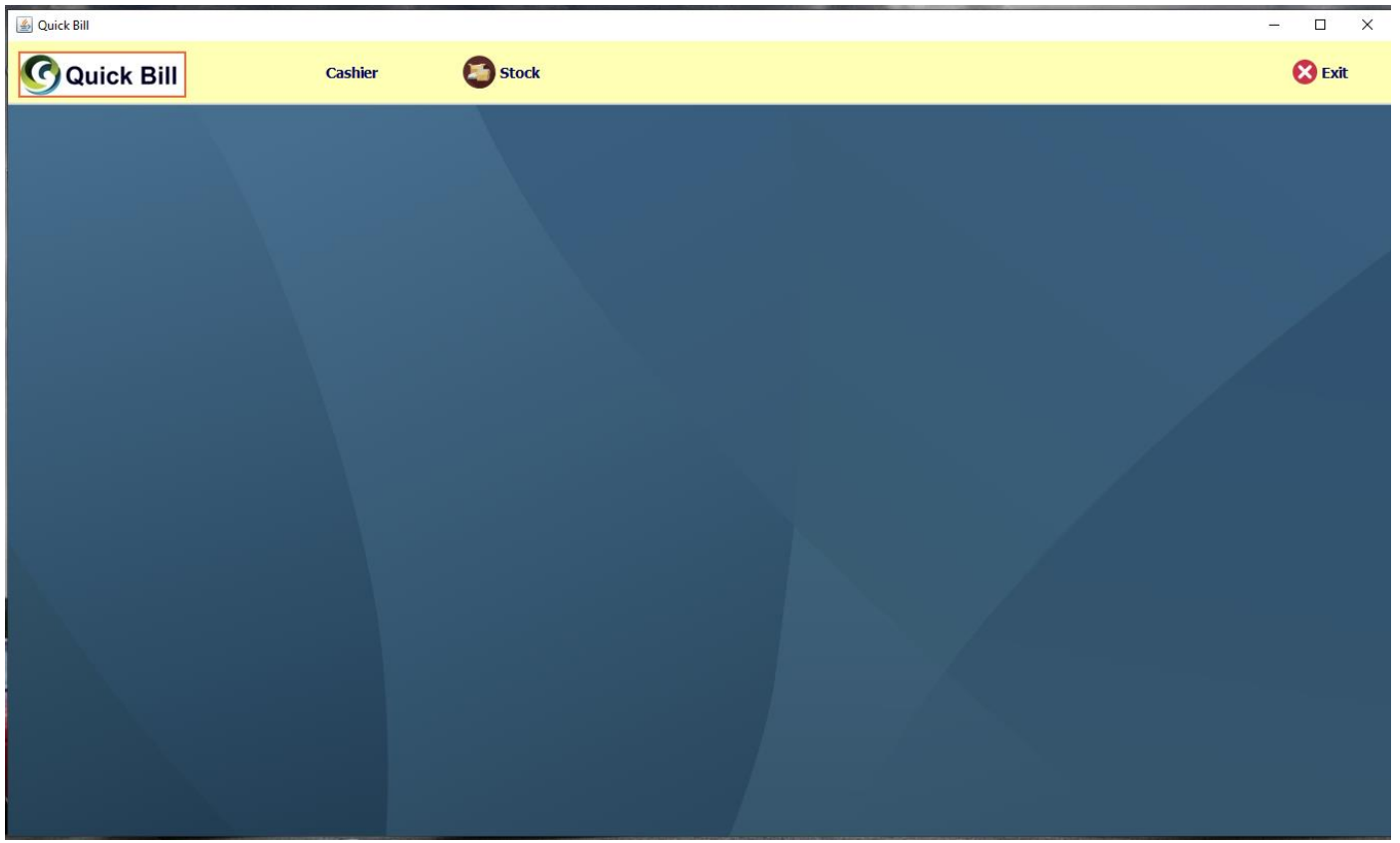
☐ Show Password

Login

- An Admin can login through this.



### 3.3 Admin Home Page



### 3.4 Add cashier details

The screenshot shows the 'Quick Bill' application window with a yellow header bar containing the 'Quick Bill' logo, 'Cashier' and 'Stock' tabs, and an 'Exit' button. A 'Add Cashier' dialog box is open in the center. The dialog has a title bar 'Add Cashier' and a close button. Inside, the title 'Add Cashier Details' is at the top. Below it are six input fields: 'Cashier Id', 'Cashier Name', 'Mobile Number', 'Address', 'Email-Id', and 'Password'. To the right of these fields is a table with the following data:

Id	Name	Mno.	Address	Email	Password
1	sudesh	12345678	Green Hos...	sudesh1@...	sudesh12...
2	Beba	0112729729	Homagama	bebaron@g...	beba12345
3	Ta	09875455	kottawa	ta@gmail.c...	ta12345

At the bottom of the dialog are three buttons: 'Add New' (with a person icon), 'Update' (with a refresh icon), and 'Delete' (with a trash icon).

- In here you can update cashier details.
- Add a new cashier Account.
- Delete a Cashier Account.
- Check cashier details.

### 3.5 Update Stock

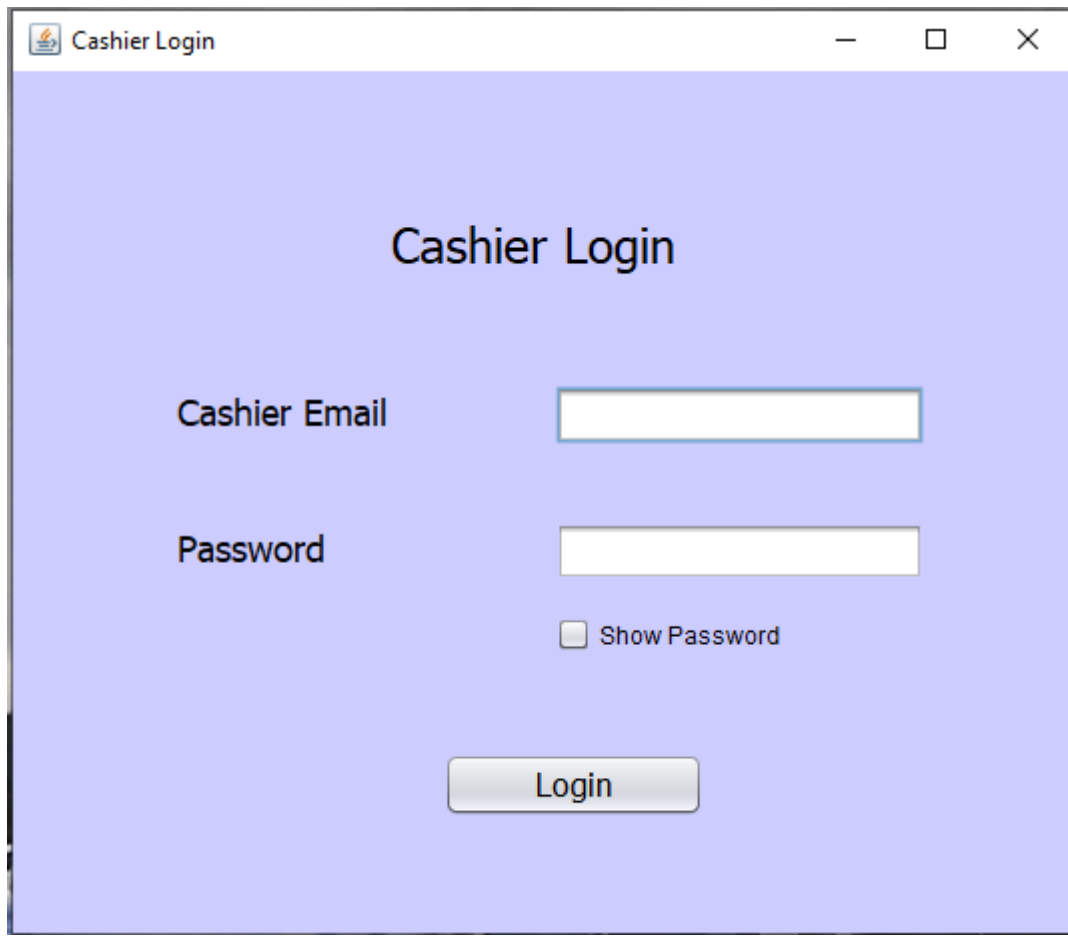
The screenshot shows the 'Quick Bill' application interface. The main window has a yellow header bar with the 'Quick Bill' logo, 'Cashier' and 'Stock' tabs, and an 'Exit' button. The 'Stock' tab is active. A 'Update Stock' dialog box is open in the center. The dialog box has a title bar 'Update Stock' and a table with the following data:

Product Id	Product Name	Available	Mrp
1	soap	13	100
2	shampoo	38	150
3	Noodles	4	45

Below the table, there are five input fields labeled 'Product Id', 'Product Name', 'Quantity Available', 'Quantity Added', and 'Mrp'. At the bottom of the dialog box, there are two buttons: '+ New' and 'C Update'.

- In here you can update stock details.
- Add new stock.

### 3.6 Cashier Login

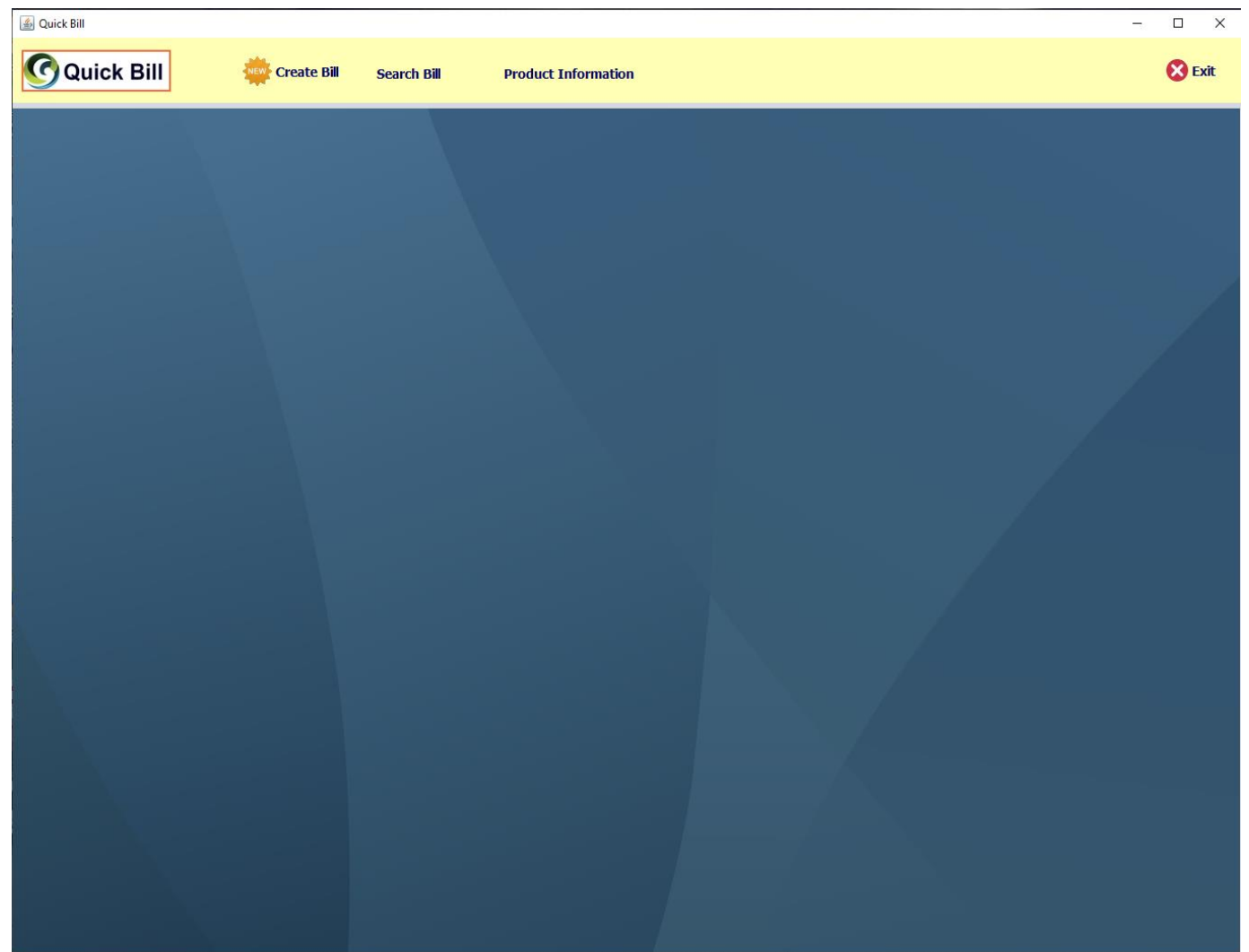


The image shows a software window titled "Cashier Login". The window has a light blue background and a white title bar with standard minimize, maximize, and close buttons. The main content area contains the following elements:

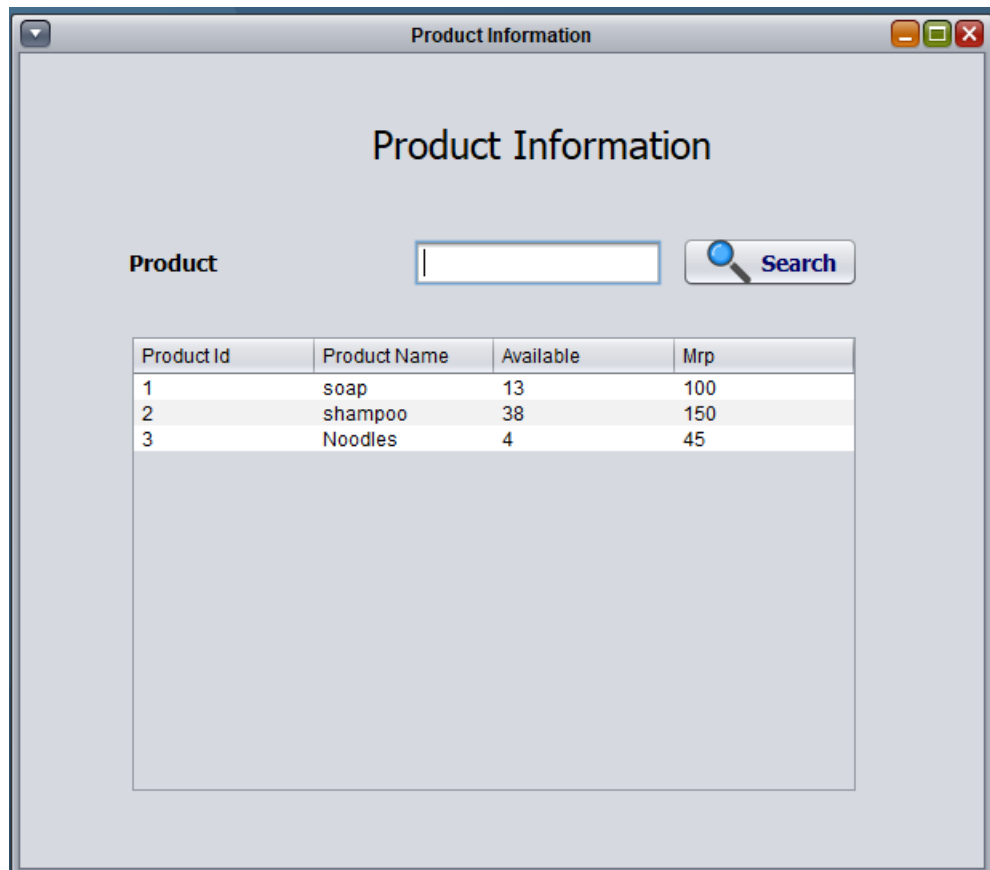
- The title "Cashier Login" is centered at the top in a large, black, sans-serif font.
- Below the title, there are two labels: "Cashier Email" and "Password", both in a black, sans-serif font.
- To the right of each label is a white rectangular text input field with a thin blue border.
- Below the "Password" input field, there is a checkbox with the label "Show Password".
- At the bottom center of the window is a rounded rectangular button with a light gray gradient and the text "Login" in a black, sans-serif font.

- A Cashier can login through this.

### 3.7 Cashier Home Page



### 3.8 Product Information

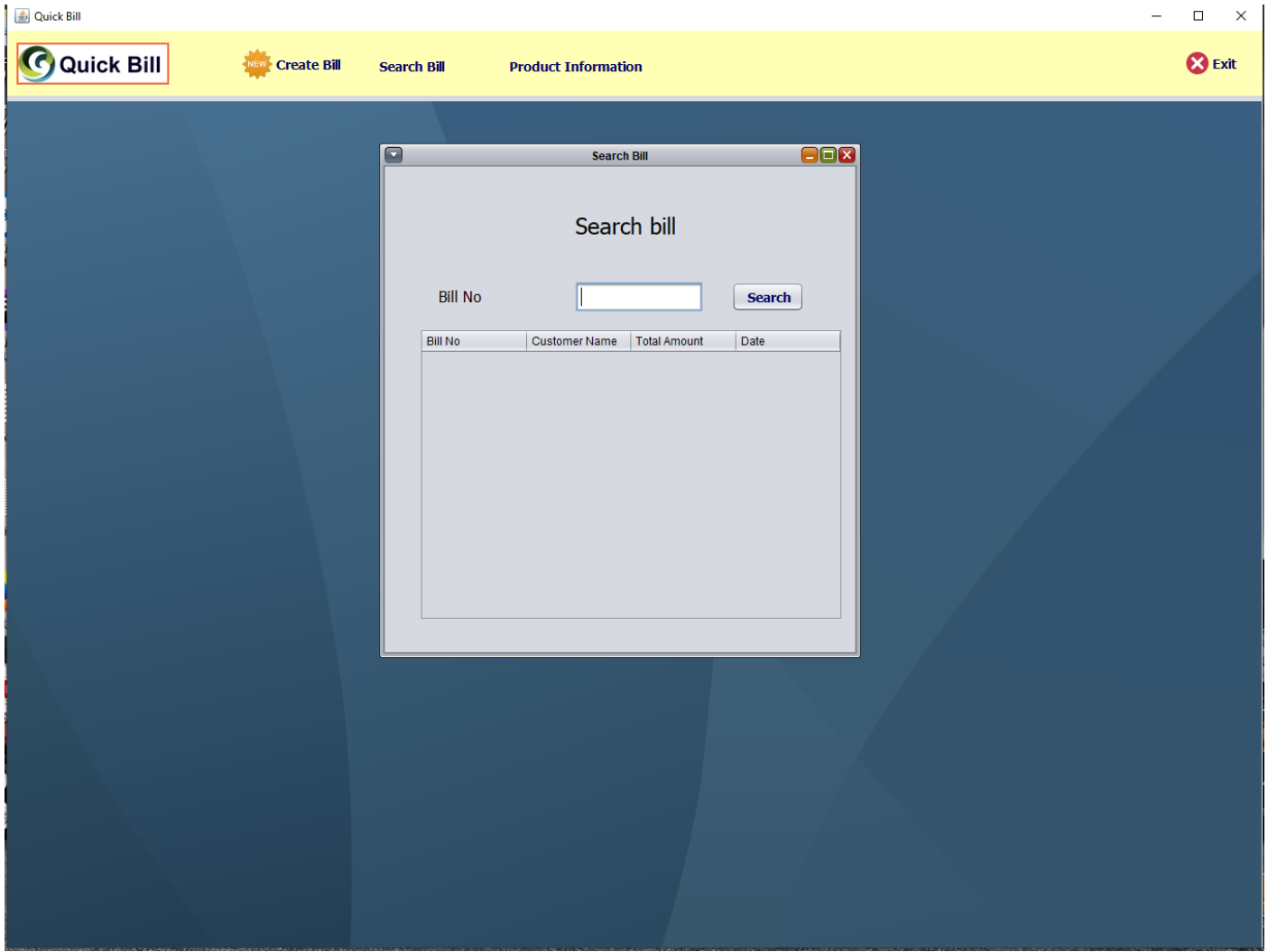


A screenshot of a software window titled "Product Information". The window has a standard macOS-style title bar with a dropdown arrow on the left and minimize, maximize, and close buttons on the right. The main content area has a light gray background. At the top center, the text "Product Information" is displayed. Below this, on the left, is the label "Product". To its right is a white text input field. Further right is a "Search" button with a magnifying glass icon. Below the input field and search button is a table with four columns: "Product Id", "Product Name", "Available", and "Mrp". The table contains three rows of data. Below the table is a large, empty rectangular area.

Product Id	Product Name	Available	Mrp
1	soap	13	100
2	shampoo	38	150
3	Noodles	4	45

- Can check for product information.

### 3.9 Search Bill



- You can search a bill by inputting a bill number.

### 3.10 Create Bill

The screenshot displays the 'Quick Bill' application interface. The main window has a yellow header bar with the 'Quick Bill' logo, a 'NEW Create Bill' button, and links for 'Search Bill' and 'Product Information'. An 'Exit' button is in the top right corner. A 'New Bill' dialog box is open in the center, featuring a form for bill creation. The form includes fields for 'Bill No' (containing '8'), 'Date' (containing '2019-01-07'), 'Customer Name', 'Product ID' (a dropdown menu with '1' selected), 'Name', 'Max Rental Price', and 'Quantity'. To the right of these fields is a table with columns 'Quantity', 'Name', 'Mrp', and 'Price'. Below the table are 'Add' and 'Remove' buttons. At the bottom of the dialog, there is a 'Total' field showing '0' and a 'Print' button with a printer icon.

Quantity	Name	Mrp	Price
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- You can create bills.
- You Can Print Bills





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