

Mr. Smith is the owner of a grocery store. He has a computer and a scale. He will buy a barcode reader. He currently manages goods in his store using Excel. Each kind of goods (e.g. bread, beef, apple...) has the following information: name, barcode number, number of available units, price per unit, provider name, and provider contact information. He currently checks out his customers' orders using a hand-held calculator and writes down the receipts manually. He inputs and updates the information of the goods in his store directly to the Excel spreadsheet. He wants you to develop a software application for store management

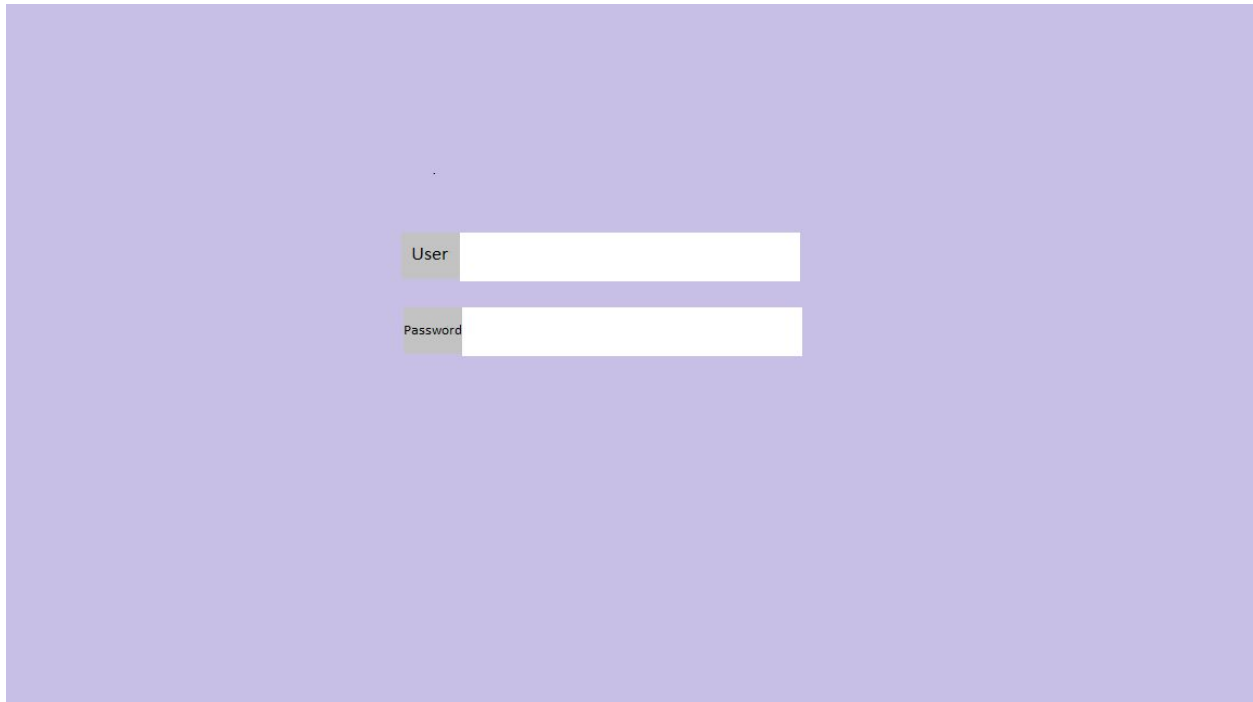
Here are the user stories you want to support in Iteration 1:

1. As a user, I want to check out an order in store for a customer
2. As a user, I want to add a new product into the system.
3. As a user, I want to update information (e.g., price, available quantity) of a current product in the system.

Task: Write a detailed use case for each user story. At each step, you should provide a prototyped screen sketching how the system might look and work.

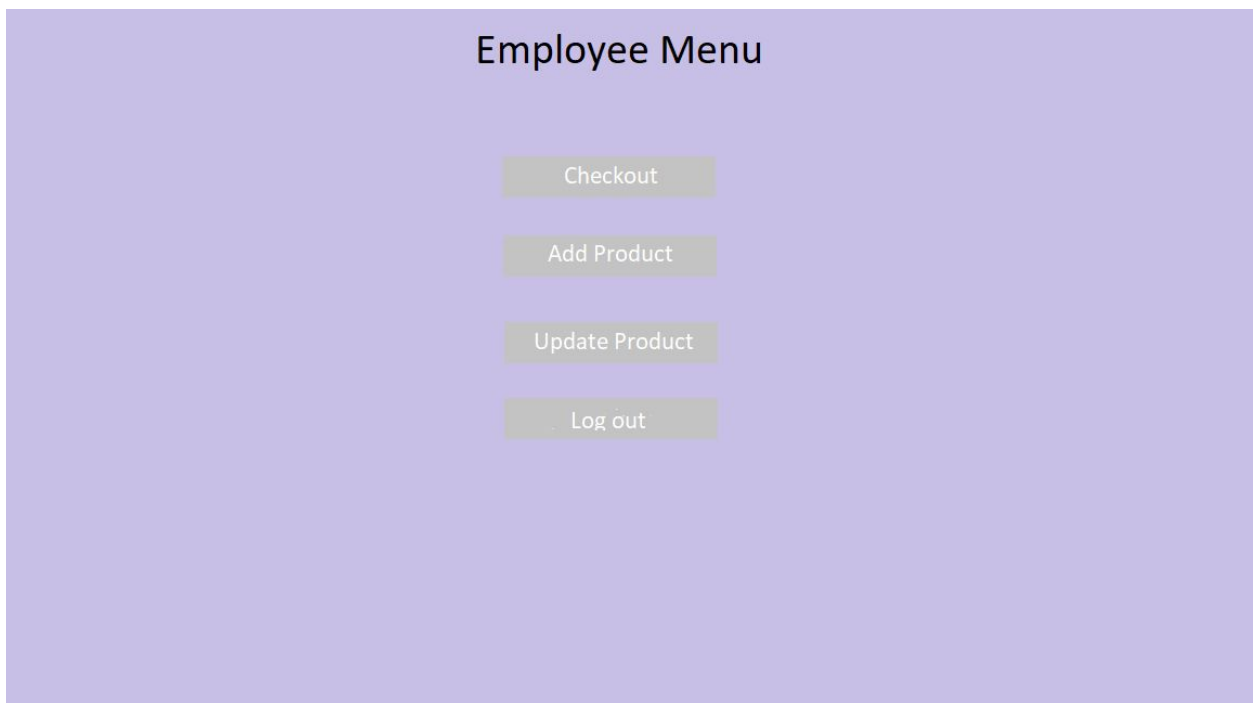
Menu Sketches

A. Login Menu



A sketch of a login menu on a light purple background. It features two input fields stacked vertically. The top field is labeled "User" and the bottom field is labeled "Password". Both labels are in a small, dark grey box to the left of the input field. The input fields are white with a thin grey border.

B. Employees Menu



A sketch of an employee menu on a light purple background. The title "Employee Menu" is centered at the top in a bold, black font. Below the title, there are four buttons stacked vertically, each with a light grey background and rounded corners. The buttons are labeled "Checkout", "Add Product", "Update Product", and "Log out" from top to bottom.

Payment

Debit/Credit

Cash

Cancel

Back

E. Cash Payment Menu

Cash

Subtotal:

Tax:

Total:

Amount Given:

Change:

Print Receipt

Back

F. Add Product Menu

Add Product

Name:

Price:

ID:

of Product

Finish

Back

G. Update Product Menu

Update Product

ID:

Price:

of Product

Name:

Finish

Back

1. As a user, I want to check out an order in store for a customer

User	System	Menu Sketch
User logs in to machine	credentials are verified and system displays employee menu	A
User selects checkout	System displays checkout menu	B
User scans products	System adds products to list of items being bought and displays list	C
Users selects finished button	System calculates total and prompts user for payment type	C
User selects cash	System prompts user for amount given	D
User enters amount given by customer	System calculates change	E
User gives customer change and hits finished	System updates Excel spreadsheet with data from transaction	E

2. As a user, I want to add a new product into the system.

User	System	Menu Sketch
User opens web-browser	Browser navigates to home page which is a login terminal for the management system	
User enters credentials	System logs in user to dashboard for management system	A
User selects new product	System loads new product page	B
User chooses to enter information manually and	System adds information to database	F

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3. As a user, I want to update information (e.g., price, available quantity) of a current product in the system.

User	System	Menu Sketch
User opens web-browser	Browser navigates to home page which is a login terminal for the management system	
User enters credentials	System logs in user to dashboard for management system	A
User selects update product	System loads update product page with search prompt for item ID or description	B
User enters item ID	System loads new page displaying item information in text fields	G
User replaces information to be updated in text fields and submits	System updates information of item in database and says update confirmed	G