

Iteration 3

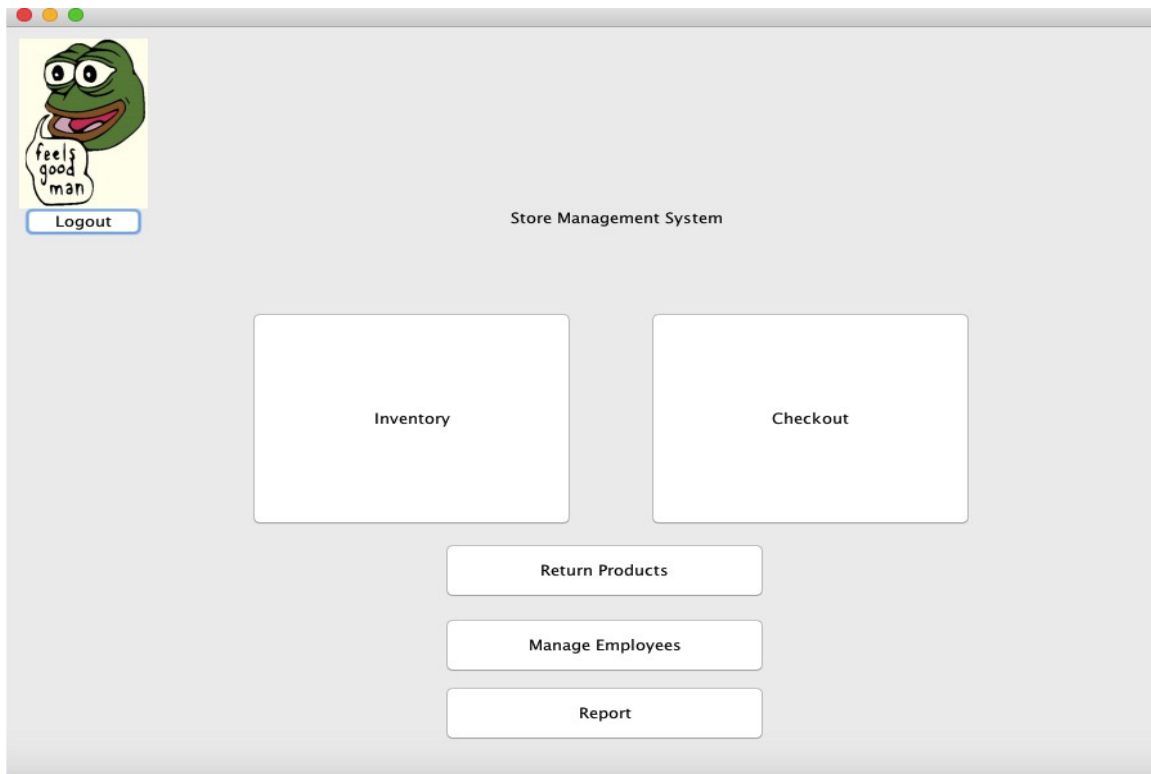
Use Cases:

1. As a cashier, I want to checkout differently for loyal program customers.
2. As a manager, I want to set up discount prices for some products.
3. As a customer, I want to use the reward points to pay in checking out process. The reward points are accumulated while paying by actual dollars. The conversion rate is 1 point for \$1 when buying, and 100 points for paying with points.
4. As a manager, I want to have revenue reports for customers in a given period (e.g. a week, a month, or a quarter...)

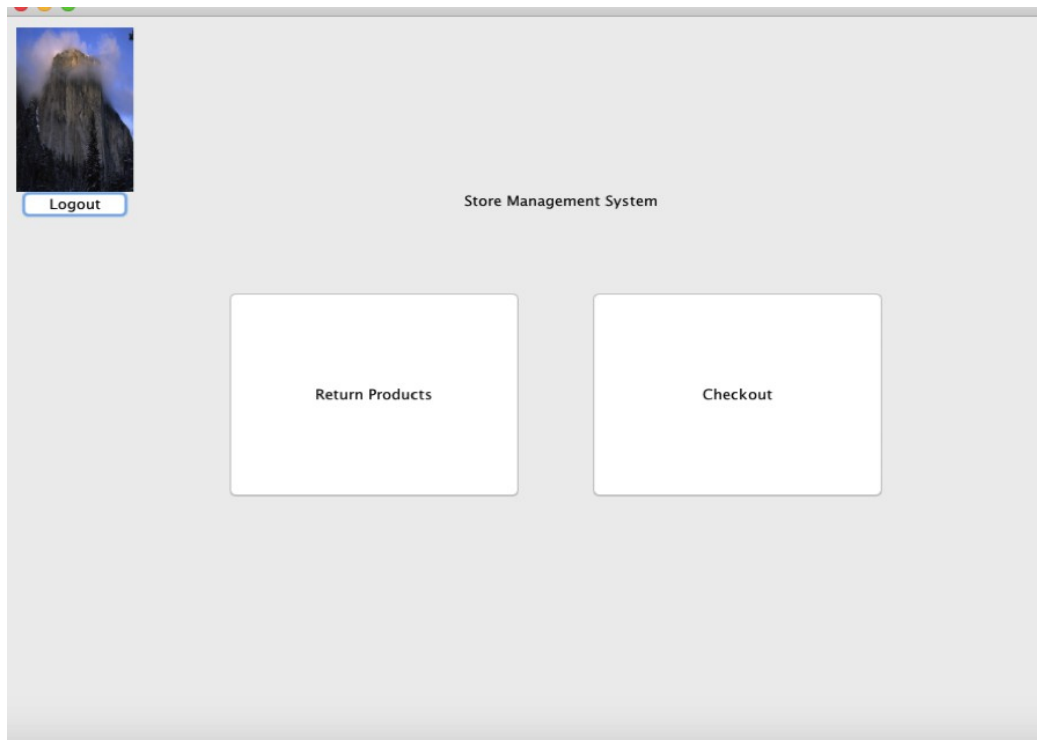
Access Control:

There are two different ways to access the system which have different levels of access, either you can login as a manager or a cashier. The differences can be noted in the main screen.

A manager has access to everything (manage employees, manage inventory, checkout, return products, view consumer reports, and can edit their own profile by clicking their picture), these are denoted by the buttons on their home screen when they log in:



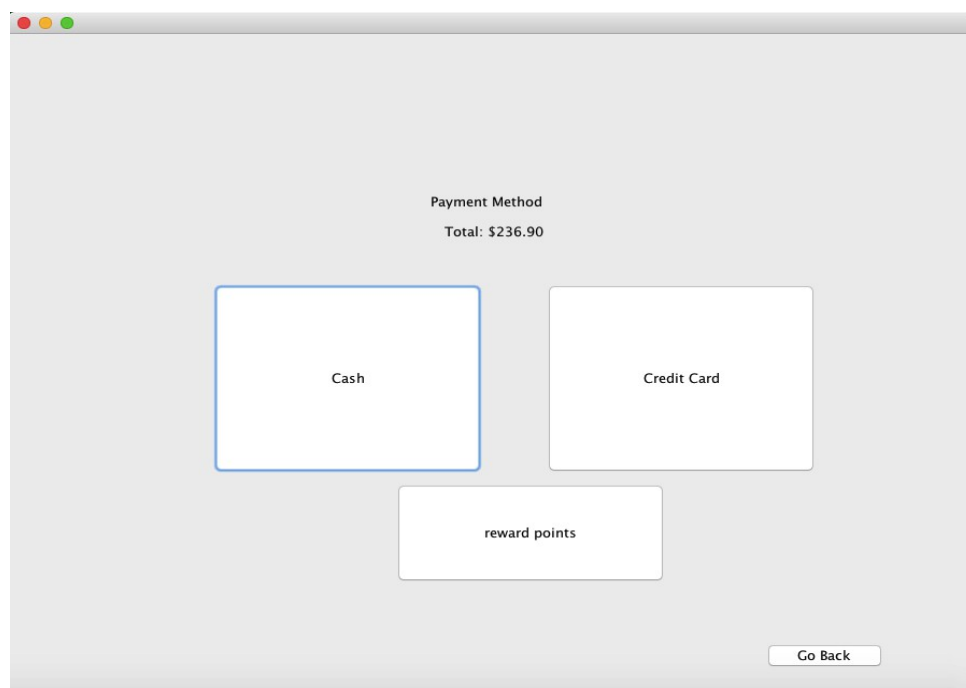
A cashier's main screen shows that they can return products or checkout a customer, and edit their own profile by clicking on their picture:



Use Case #1:

1. As a cashier, I want to checkout differently for loyal program customers.

The checkout for regular customers and reward members is mostly the same. If you are a reward customer you will have the option to pay with reward points if you'd like:



If as a customer who is paying for money, a reward customer will have the option to enter their phone number or swipe their reward card so they can add points to their account for use in the future. On the cash screen it looks like this:

Cash
Total: \$442.90

Enter amount:

Change: \$57.10

Enter phone # or swipe reward card (optional):

When Print Receipt is clicked it will add the points to the customers account and give them their receipt. The process is similar if paying with a card, they either enter their phone number or swipe their rewards card to add points to their account:

Credit or Debit
Swipe card or enter info

Full Name:

Card number:

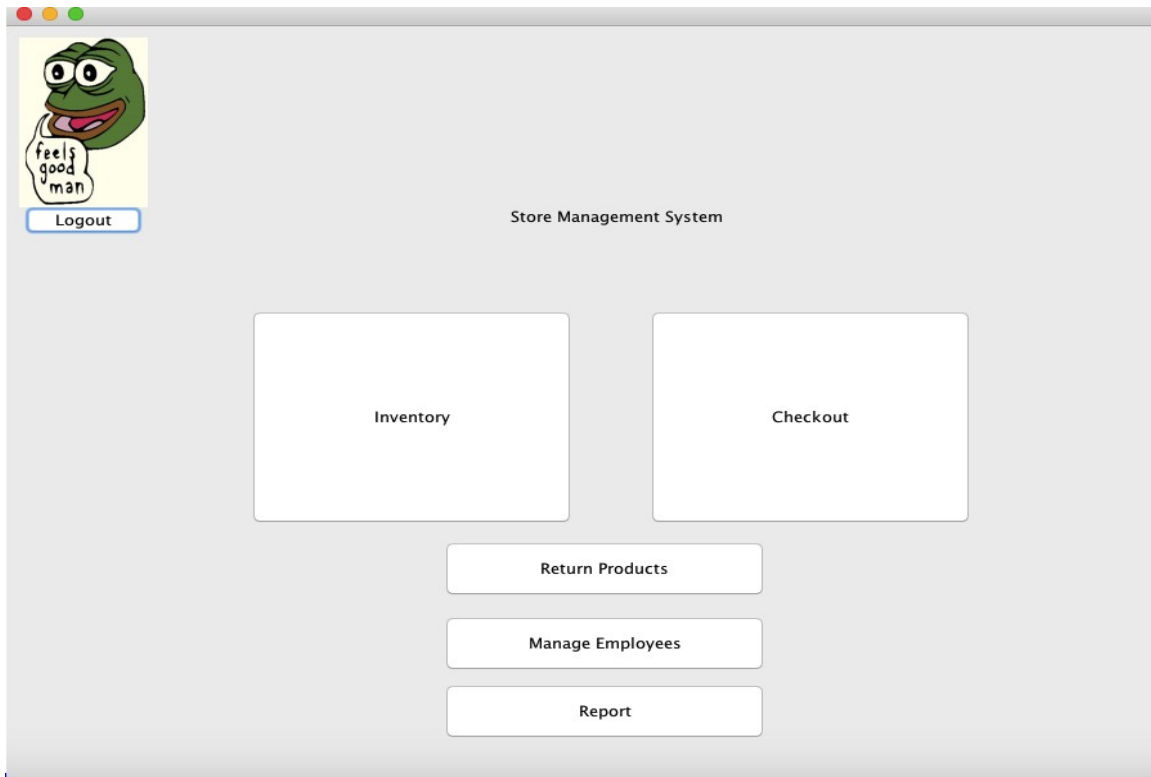
Exp. Date:

CRV:

Enter phone # or swipe reward card (optional):

Use Case #2: As a manager, I want to set up discount prices for some products.

A manager on their main screen has a “Inventory” button:



Clicking this will take them to the Inventory screen, which will now have a discount Price category:

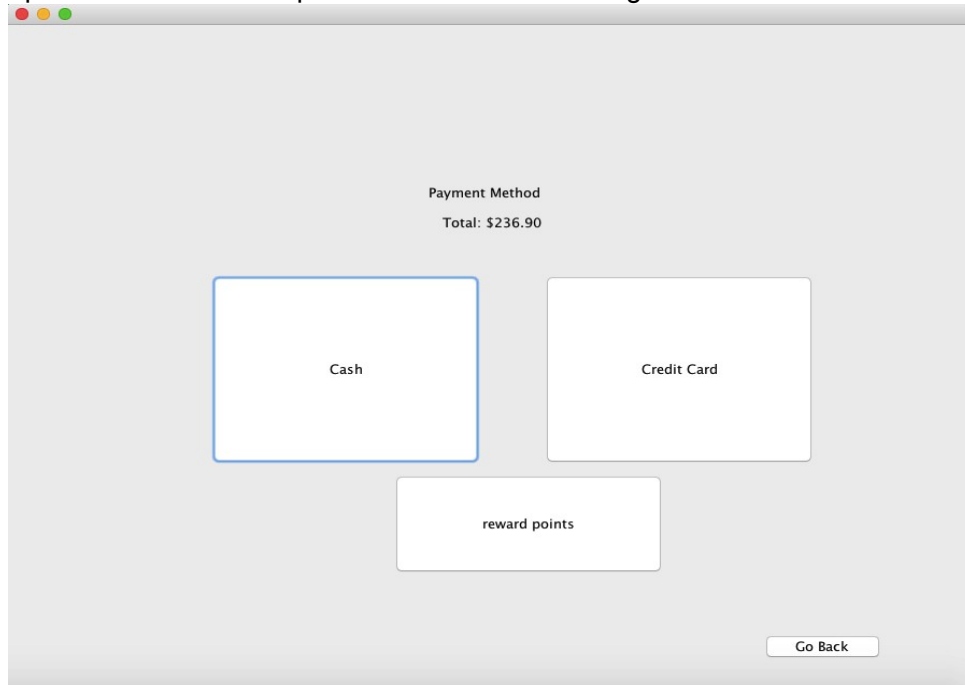
The screenshot shows the 'Inventory' screen. On the left is a form with input fields for 'Id', 'Name', 'Price', 'Provider', 'Type', '# in Stock', and 'Discount'. Below these fields are 'Add Item' and 'Update Item' buttons. On the right is a table with 7 columns: ID, Name, Price, Provider, Type, Stock, and discountPrice. A red arrow points to the 'discountPrice' column header. Below the table are 'edit selected item' and 'delete selected item' buttons. At the bottom right is a 'go back' button.

ID	Name	Price	Provider	Type	Stock	discountPrice
1	soccer ball	10.0	lees	sports	~50388	0.0
2	AaronAdams	3.44	lees	none	18	0.0
3	bots	5.66	lees	fewvw	2	0.0
5	basketballs	5.99	lees	sports	6000	0.0
7	grapes	3.44	walmart	fruit	1000	2.3
8	oranges	3.44	walmart	fruit	1000	1.0

Use Case 3:

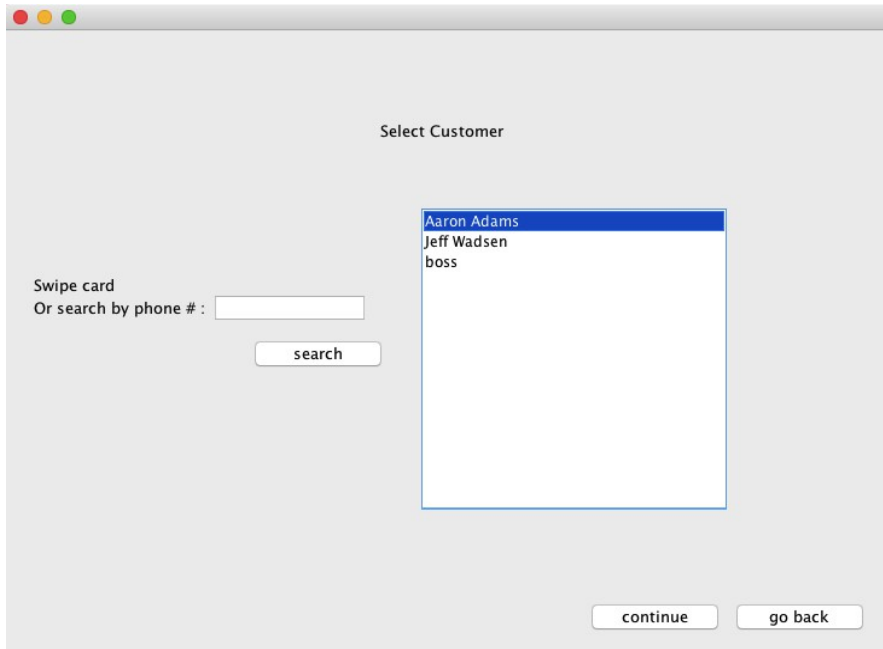
As a customer, I want to use the reward points to pay in checking out process. The reward points are accumulated while paying by actual dollars. The conversion rate is 1 point for \$1 when buying, and 100 points for paying with points.

In the checkout process the cashier is presented with the following screen:



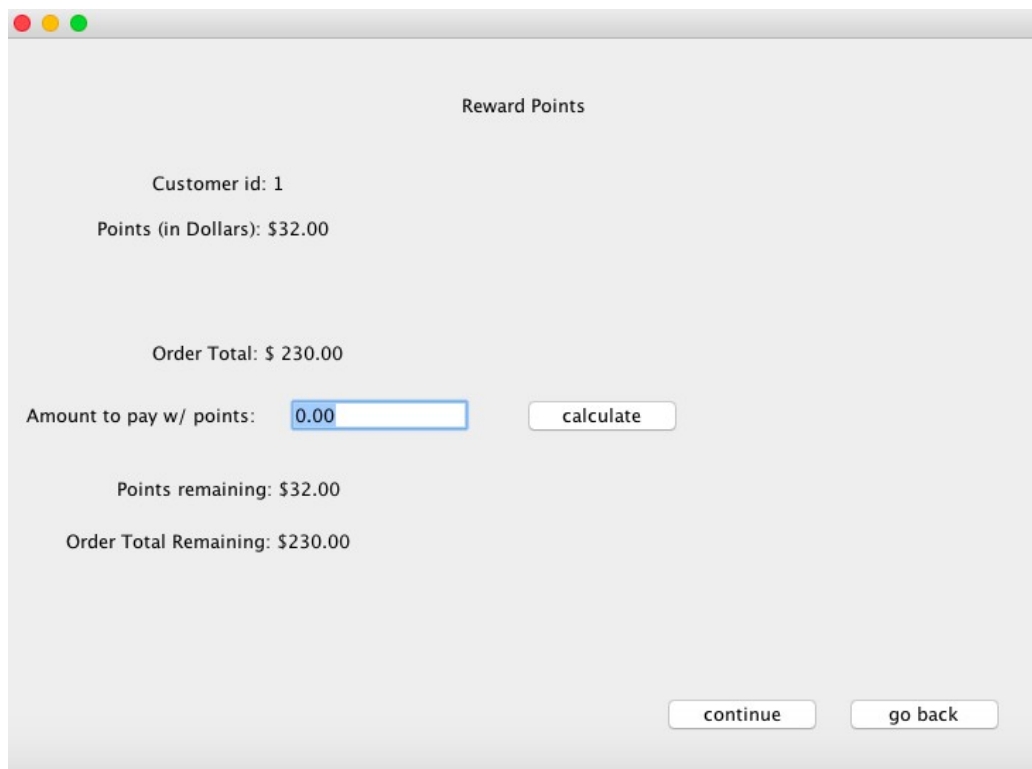
A screenshot of a software application window titled "Payment Method". The window has a light gray background and a standard macOS-style title bar with red, yellow, and green buttons. At the top center, the text "Payment Method" is displayed, followed by "Total: \$236.90". Below this, there are three white rectangular buttons with black text: "Cash" (highlighted with a blue border), "Credit Card", and "reward points" (positioned below the other two). In the bottom right corner, there is a small button labeled "Go Back".

They ask if the client would like to use their reward points, if they say yes the cashier clicks on the "Reward Points button" and is presented with the following screen:



A screenshot of a software application window titled "Select Customer". The window has a light gray background and a standard macOS-style title bar. On the left side, there is a label "Swipe card" followed by "Or search by phone # :". Below this is a text input field and a button labeled "search". On the right side, there is a list box containing three names: "Aaron Adams" (highlighted with a blue background), "Jeff Wadsen", and "boss". At the bottom right, there are two buttons: "continue" and "go back".

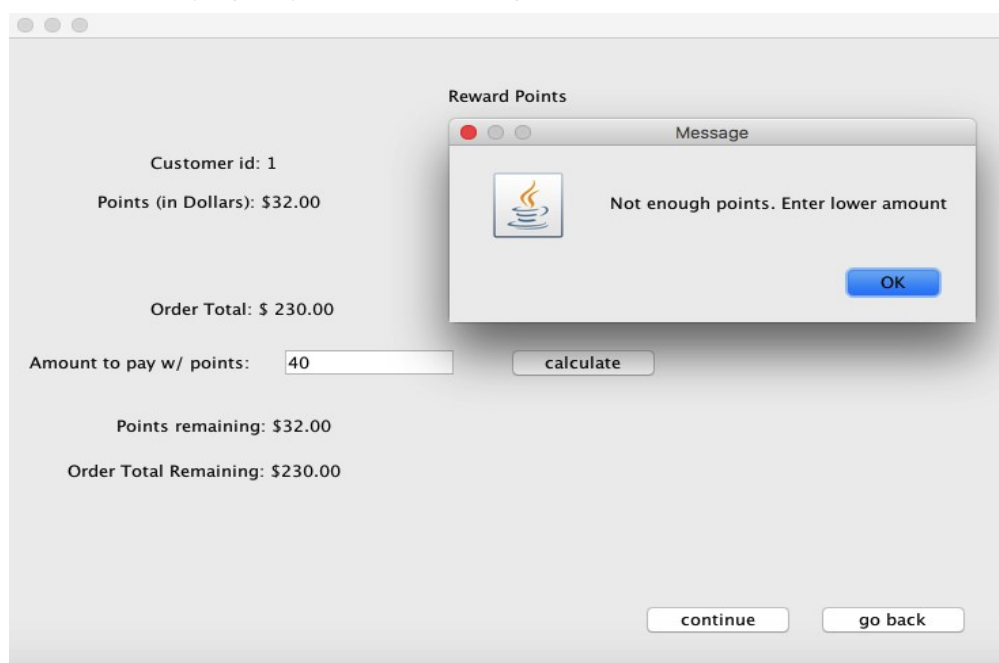
The cashier can have the customer swipe their card, enter their phone number and press search or they can select their name and press continue. Either way leads to the following screen:



The screenshot shows a window titled "Reward Points" with a light gray background. At the top, it displays "Customer id: 1" and "Points (in Dollars): \$32.00". Below this, the "Order Total: \$ 230.00" is shown. A section for "Amount to pay w/ points:" features a text input field containing "0.00" and a "calculate" button. Further down, it shows "Points remaining: \$32.00" and "Order Total Remaining: \$230.00". At the bottom right, there are two buttons: "continue" and "go back".

Here their customer id is shown along with the dollar representation of how many points they have (\$1 for every 100 points). The cashier can show them the total they owe and how much money they have in points and asks them how much they want to use. They can enter the amount desired and click calculate, which will then show how much points they will have left and the total remaining.

If they enter in more points than they have and press either calculate or continue they will be stopped and presented with a window saying they don't have enough points, and the window will be reset:



This screenshot shows the same "Reward Points" window as before, but with an error message dialog box open in the foreground. The dialog box is titled "Message" and contains a Java logo icon and the text "Not enough points. Enter lower amount". An "OK" button is at the bottom right of the dialog. In the background window, the "Amount to pay w/ points:" input field now contains "40", and the "calculate" button is visible. The other elements of the window remain the same.

Also if they enter more points than is needed to pay for the whole order it will stop and give a message as well:

The screenshot shows a 'Reward Points' application window. It displays customer information: 'Customer id: 1' and 'Points (in Dollars): \$32.00'. The 'Order Total' is '\$ 10.00'. A text input field for 'Amount to pay w/ points:' contains the value '20'. A 'calculate' button is next to it. Below the input field, it shows 'Points remaining: \$32.00' and 'Order Total Remaining: \$10.00'. At the bottom, there are 'continue' and 'go back' buttons. A 'Message' dialog box is open in the foreground, displaying a warning icon and the text 'Points exceeds Order total', with an 'OK' button.

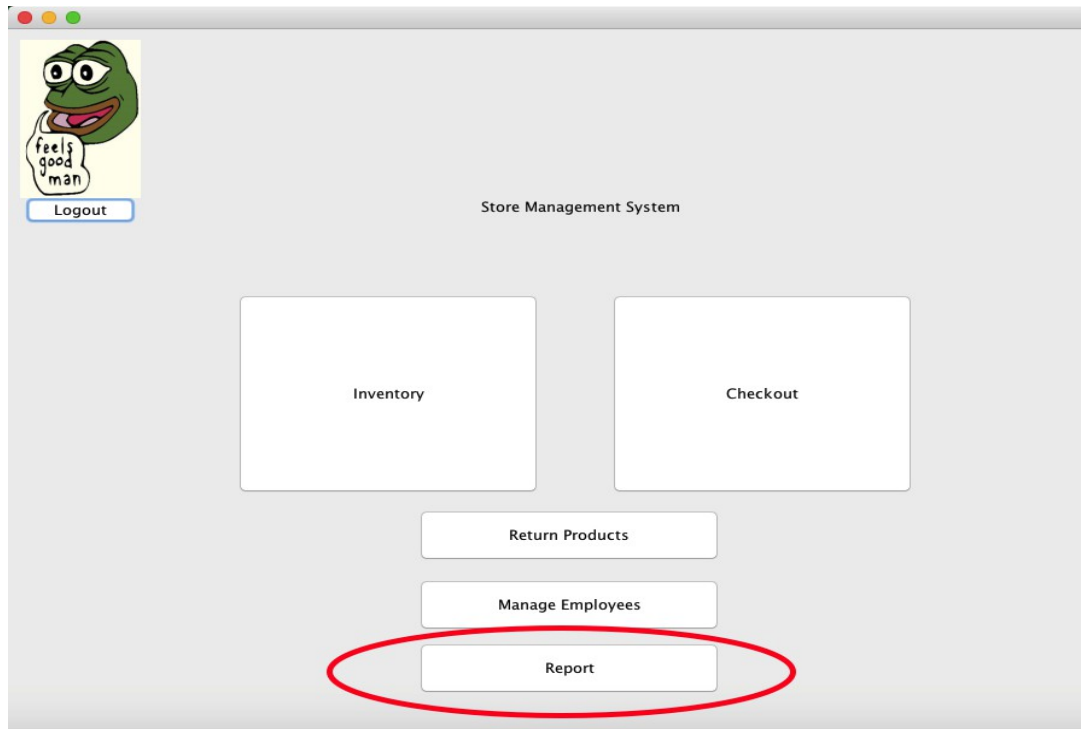
When they enter an amount that meets the requirements, they will click continue, if the whole order is being paid by points they will get a receipt, if not they will be taken back to the payment method screen to pay the rest of the total by cash or card:

The screenshot shows a 'Payment Method' selection screen. It displays the 'Total: \$236.90'. There are three buttons for selecting a payment method: 'Cash', 'Credit Card', and 'reward points'. The 'Cash' button is highlighted with a blue border. A 'Go Back' button is located at the bottom right of the screen.

Use Case #4:

As a manager, I want to have revenue reports for customers in a given period (e.g. a week, a month, or a quarter...)

On the managers main screen they have a “reward points” button, they click on this to view reports:



They will see a screen like this:

Report

Select orders from: 2000-01-01 to: 5000-12-25 Filter

Customer Name	Payment Method	Order Total	Date Time
	Cash	\$823.98	2017-03-15 09:22:40.0
	Cash	\$10.97	2017-03-19 09:25:16.0
Jeff Wadsen	Card	\$-24748.53	2017-04-02 19:00:40.0
	Cash	\$-81.49	2017-04-19 16:59:53.0
boss	null	\$10.30	2017-04-22 21:19:02.0
Jeff Wadsen	null	\$10.30	2017-04-22 21:22:01.0
Aaron Adams	null	\$10.30	2017-04-22 21:28:21.0
Aaron Adams	null	\$10.30	2017-04-22 21:30:25.0
Aaron Adams	null	\$10.30	2017-04-22 21:34:04.0
Aaron Adams	Cash	\$5.15	2017-04-22 21:34:22.0
Aaron Adams	Card	\$206.00	2017-04-22 21:45:12.0
Aaron Adams	Card	\$206.00	2017-04-22 21:47:50.0
Aaron Adams	Card	\$206.00	2017-04-22 21:50:00.0
Aaron Adams	Cash	\$206.00	2017-04-22 22:11:50.0
Aaron Adams	Card	\$10.30	2017-04-22 22:21:01.0
	Cash	\$10.30	2017-04-26 12:14:31.0
	Cash	\$206.00	2017-04-26 12:15:21.0
	Cash	\$206.00	2017-04-26 16:15:16.0
	Cash	\$206.00	2017-04-26 16:26:44.0
	Cash	\$206.00	2017-04-26 16:27:46.0
	Cash	\$206.00	2017-04-26 16:31:22.0
	Cash	\$206.00	2017-04-26 16:33:38.0
	Cash	\$206.00	2017-04-26 16:59:31.0
	Cash	\$206.00	2017-04-26 17:01:14.0
	Cash	\$206.00	2017-04-26 17:02:51.0
	Cash	\$206.00	2017-04-26 17:04:09.0
	Cash	\$206.00	2017-04-26 17:05:24.0

go back

By default it shows all orders, you can scroll through them, if you want to view any time frame, you can enter the dates and click filter:

The screenshot shows a 'Report' window with a table of orders. At the top, there are two date input fields: 'Select orders from:' with the value '2017-04-01' and 'to:' with the value '2017-04-25'. Both fields are circled in red. To the right of these fields is a 'Filter' button, also circled in red, with a red arrow pointing to it. Below the date filters is a table with four columns: 'Customer Name', 'Payment Method', 'Order Total', and 'Date Time'. The table contains 15 rows of data. At the bottom right of the window is a 'go back' button.

Customer Name	Payment Method	Order Total	Date Time
Jeff Wadsen	Card	\$-24748.53	2017-04-02 19:00:40.0
	Cash	\$-81.49	2017-04-19 16:59:53.0
boss	null	\$10.30	2017-04-22 21:19:02.0
Jeff Wadsen	null	\$10.30	2017-04-22 21:22:01.0
Aaron Adams	null	\$10.30	2017-04-22 21:28:21.0
Aaron Adams	null	\$10.30	2017-04-22 21:30:25.0
Aaron Adams	null	\$10.30	2017-04-22 21:34:04.0
Aaron Adams	Cash	\$5.15	2017-04-22 21:34:22.0
Aaron Adams	Card	\$206.00	2017-04-22 21:45:12.0
Aaron Adams	Card	\$206.00	2017-04-22 21:47:50.0
Aaron Adams	Card	\$206.00	2017-04-22 21:50:00.0
Aaron Adams	Cash	\$206.00	2017-04-22 22:11:50.0
Aaron Adams	Card	\$10.30	2017-04-22 22:21:01.0

The manager can also click on "Customer Name", "Payment Method", "Order Total", and "Date Time" to sort the columns in different ways.