

Project Report

Electronic Vendor Database

Group 26

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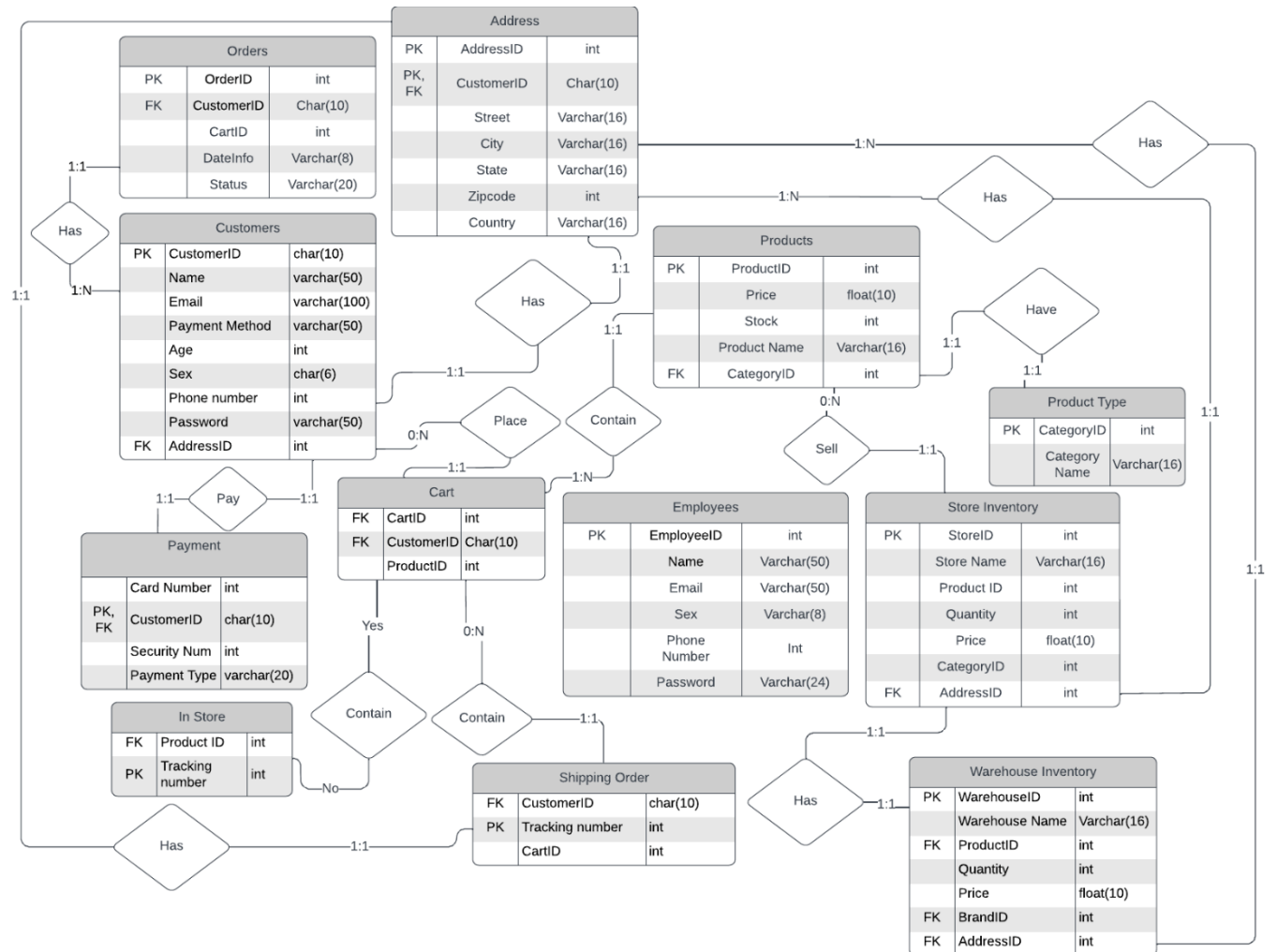
Application Overview

This application is an electronics vendor that operates both a website and a chain of many physical stores. There are many different products in each store. This application allows customers to check the inventory online; employees can manage their inventory.

Customers are able to create an account with an email and password. Their information will be stored in the database. Customers with an account can edit their information in the profile. They can check the stock information, purchase history and finish transactions. Customers without an account can finish their transactions with a credit card.

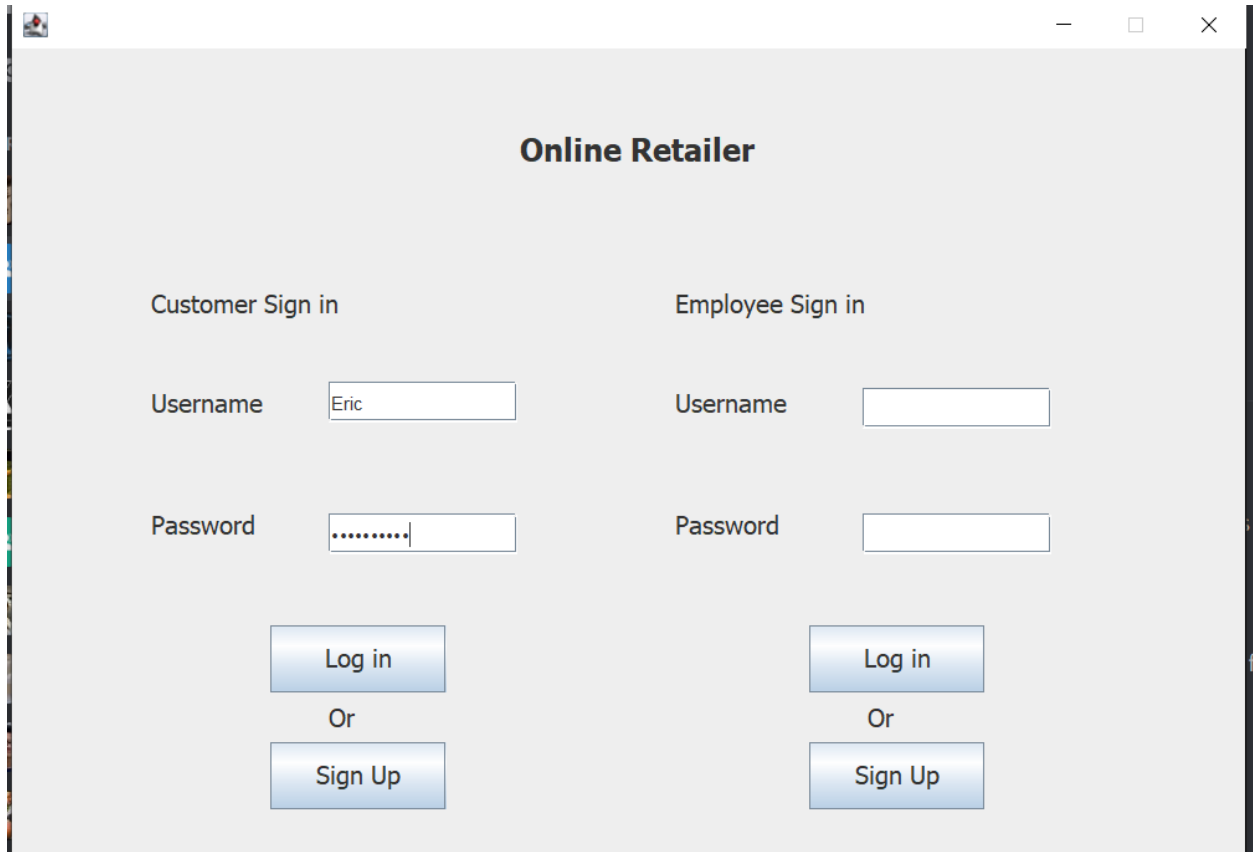
Employees have the access to check and update the stock information. The application will also update the stock information in the database when a product is sold.

ER Diagram¹:



¹ https://lucid.app/lucidchart/c668a55b-84d6-4dd3-9940-1b7a9e49cd74/edit?invitationId=inv_203e4c92-6266-45f0-915a-2bd7ec416d43

Main menu



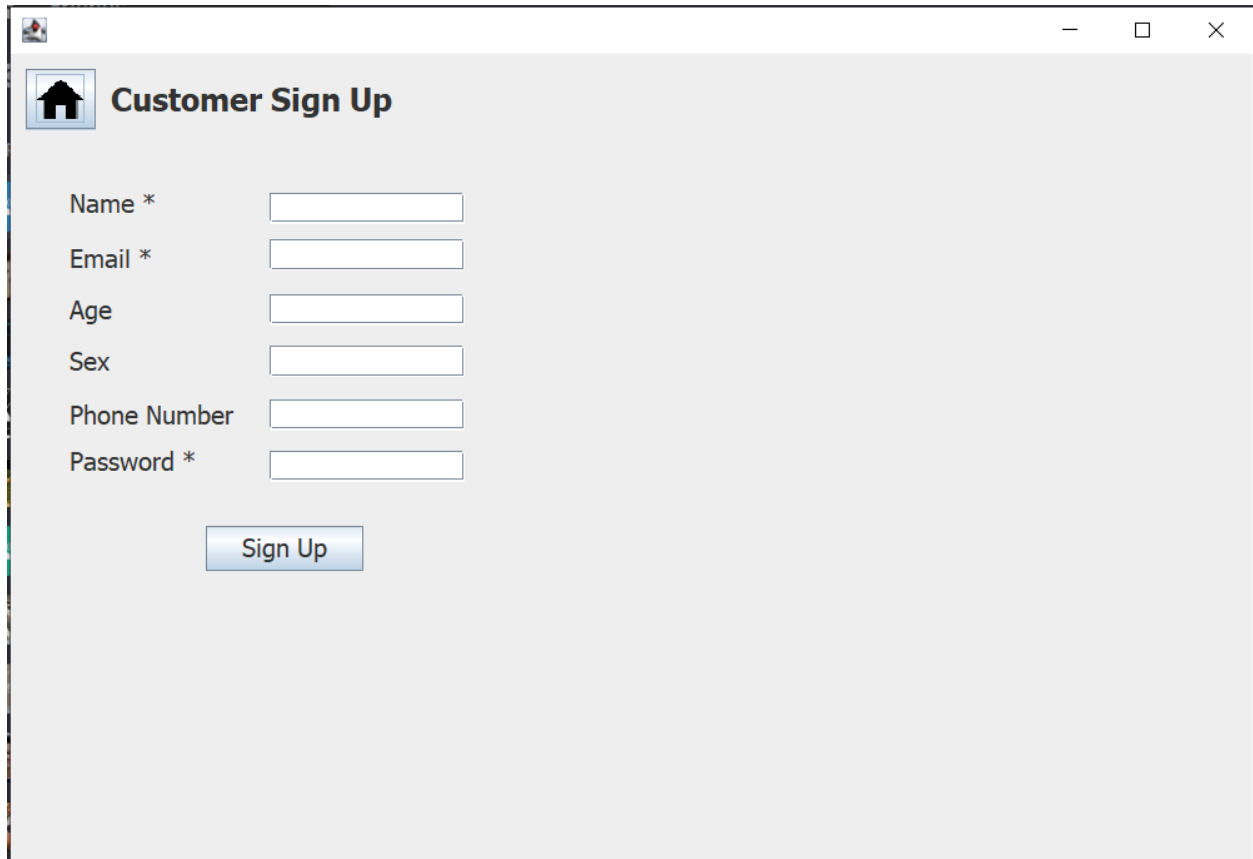
The screenshot shows a web application window titled "Online Retailer". It features two columns for user authentication. The left column is for "Customer Sign in" and the right column is for "Employee Sign in". Each column contains a "Username" label and a text input field, a "Password" label and a password input field (masked with dots for the customer), and two buttons: "Log in" and "Sign Up". The "Log in" and "Sign Up" buttons are separated by the word "Or". The window has a standard Windows-style title bar with minimize, maximize, and close buttons.

Customer Sign in		Employee Sign in	
Username	<input type="text" value="Eric"/>	Username	<input type="text"/>
Password	<input type="password" value="....."/>	Password	<input type="password"/>
<input type="button" value="Log in"/>		<input type="button" value="Log in"/>	
Or		Or	
<input type="button" value="Sign Up"/>		<input type="button" value="Sign Up"/>	

This is the sign-in page for both customers and employees.

Customers and employees will both need to sign up before they can start using the system.

Customer Sign Up page



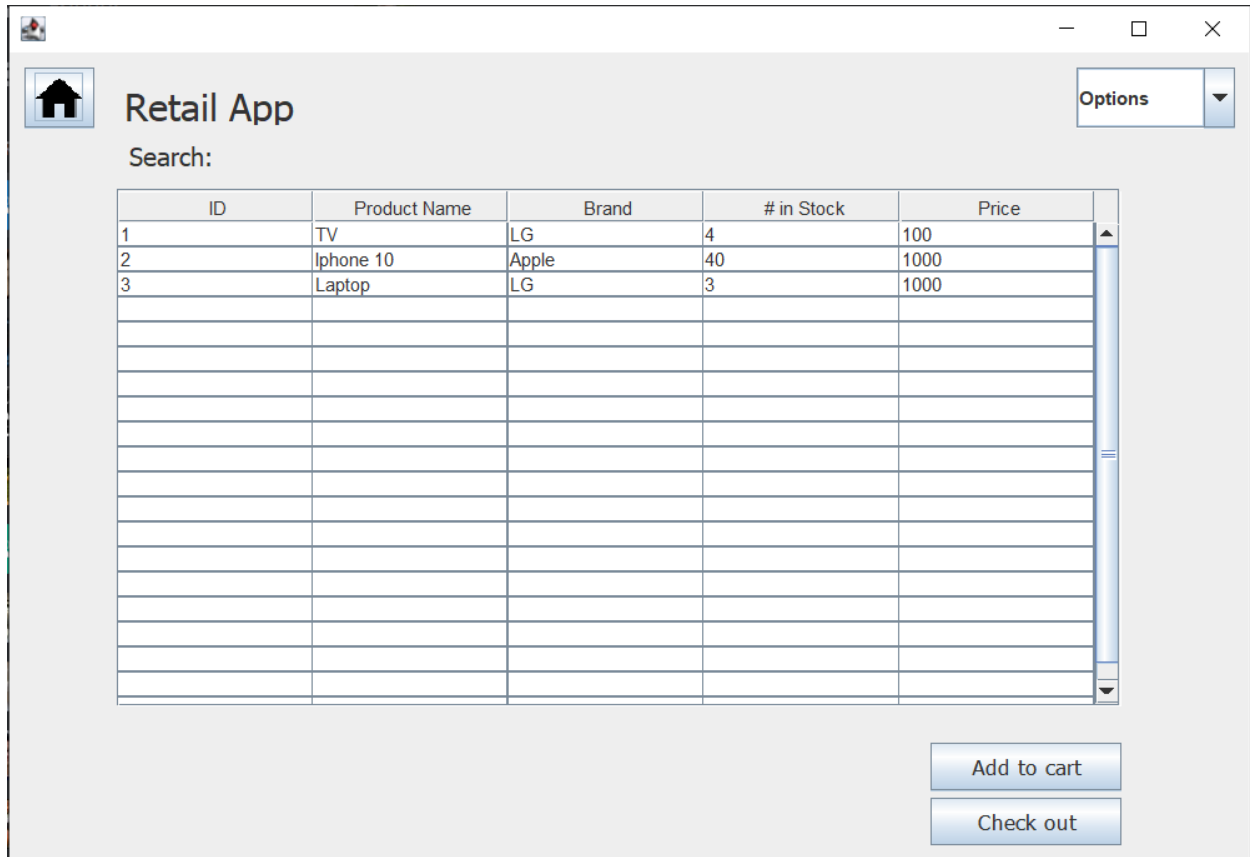
A screenshot of a web application window titled "Customer Sign Up". The window has a standard Windows-style title bar with a minimize button, a maximize button, and a close button. Below the title bar, there is a header area with a home icon and the text "Customer Sign Up". The main content area contains a form with the following fields:

- Name *
- Email *
- Age
- Sex
- Phone Number
- Password *

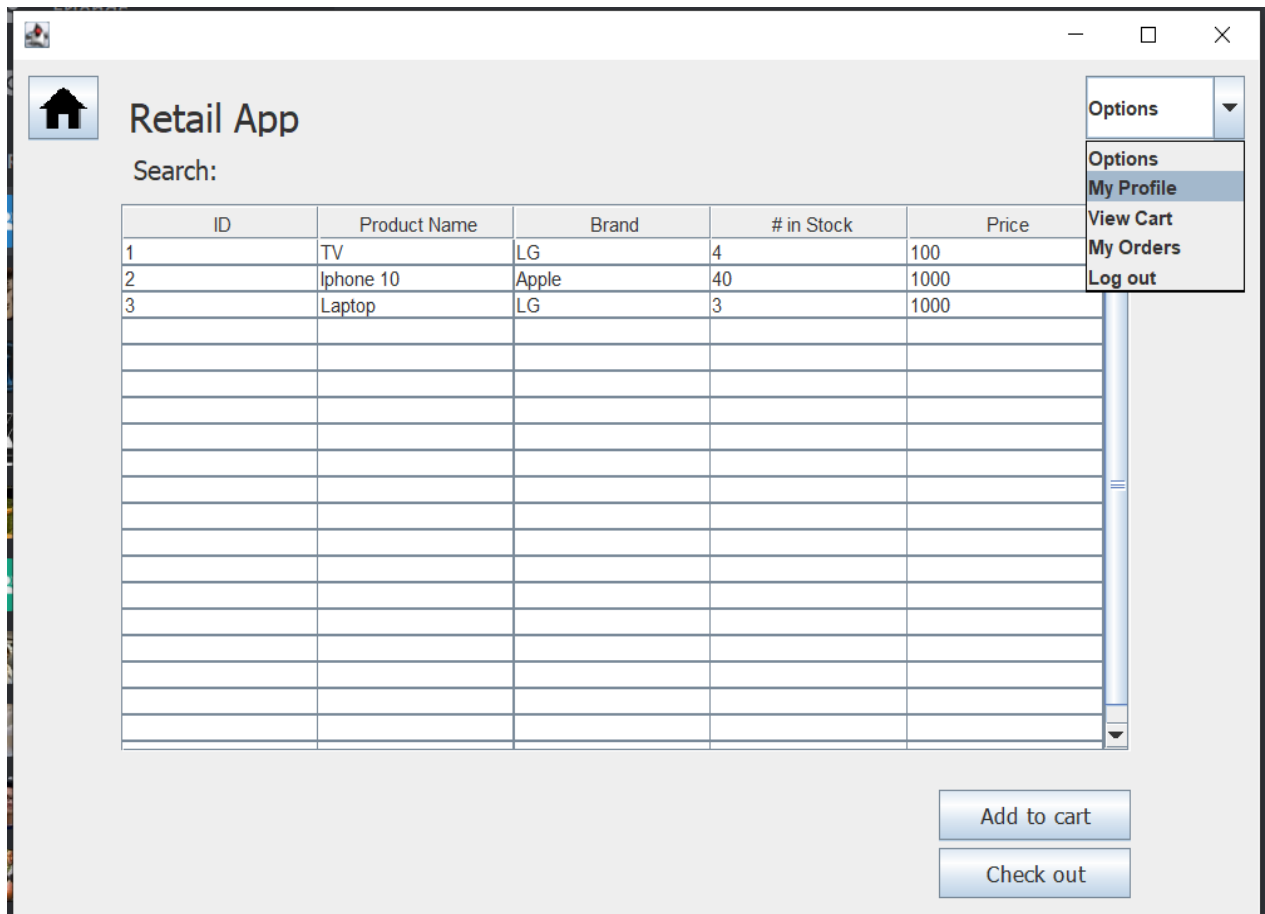
Each field is represented by a text input box. Below the fields is a "Sign Up" button.

This is the customer sign up page. All information in this page will be stored into the database.

Retailer App



This page will show the ID of products, the product name, brand of product, the number in Stock, price. Customers can add products to the cart by clicking the product and press “add to cart”. After they finish shopping, they can click “check out” to finish their purchase.



Customers can also click on the top right button and choose to view their profile, view carts, view orders, or log out. This button will be available in other panels too.

Profile page

The image shows a web browser window with a title bar containing standard minimize, maximize, and close buttons. The page content is titled "My profile" next to a house icon. In the top right corner, there is an "Options" dropdown menu. The form contains the following fields and buttons:

- Name ***: Text input with the value "Elijah".
- Email ***: Text input with the value "ewendel".
- Age**: Text input with the value "20".
- Sex**: Text input with the value "M".
- Phone Number**: Text input with the value "123".
- Password ***: Text input with the value "lolo".
- Address**: A button labeled "Manage Addresses".
- Payment Method**: A button labeled "Manage Payments".
- Modify**: A button at the bottom of the form.

This page allows the customer to edit their information including password.

Address/ Payment Information

The screenshot shows a web application window with a title bar containing a home icon, a '<- Back' button, the title 'My profile -> Address/Payment Info', and an 'Options' dropdown menu. The main content area is divided into two sections: 'Address' and 'Credit Cards'. The 'Address' section contains five text input fields: 'Street' (599 Fairview), 'City' (Elm), 'State' (IL), 'Zipcode' (60616), and 'Country' (USA). Below these fields is a 'Modify' button. The 'Credit Cards' section contains three input fields: 'Number' (123), 'CVC' (911), and 'Type' (Credit, which is a dropdown menu). Below these fields is another 'Modify' button.

Address		Credit Cards	
Street	599 Fairview	Number	123
City	Elm	CVC	911
State	IL	Type	Credit
Zipcode	60616		
Country	USA		

This page will show up after the customer clicks “Manage Addresses” or “Manage Payments”. After inputting their information, they can click “Modify” to complete the changes.

Cart

The screenshot shows a web application window titled "Items in cart". It features a table with four columns: "Product Name", "Brand", "# in Stock", and "Price". The table contains two rows of data: "Iphone 10" by Apple with 40 in stock at \$1000, and "Laptop" by LG with 3 in stock at \$1000. Below the table, the total cost is displayed as "\$ 2000.0". A "Check out" button is located at the bottom right. An "Options" dropdown menu is visible in the top right corner.

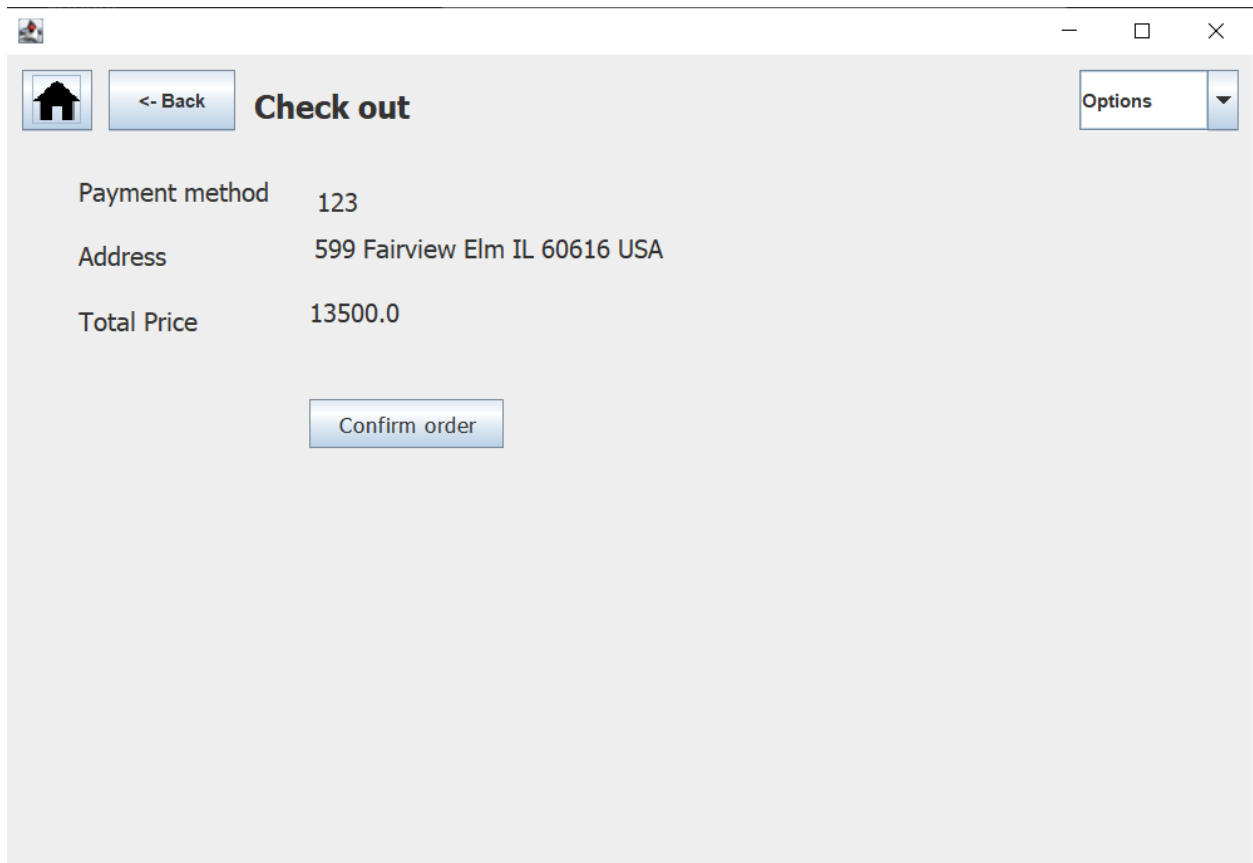
Product Name	Brand	# in Stock	Price
Iphone 10	Apple	40	1000
Laptop	LG	3	1000

Total cost: \$ 2000.0

Check out

Customers can view their items in cart on this page. The name, brand, number in stock, and price will be listed here. The total price will be shown on the right bottom. They can also press "Check out" to go to the checkout page.

Check out page



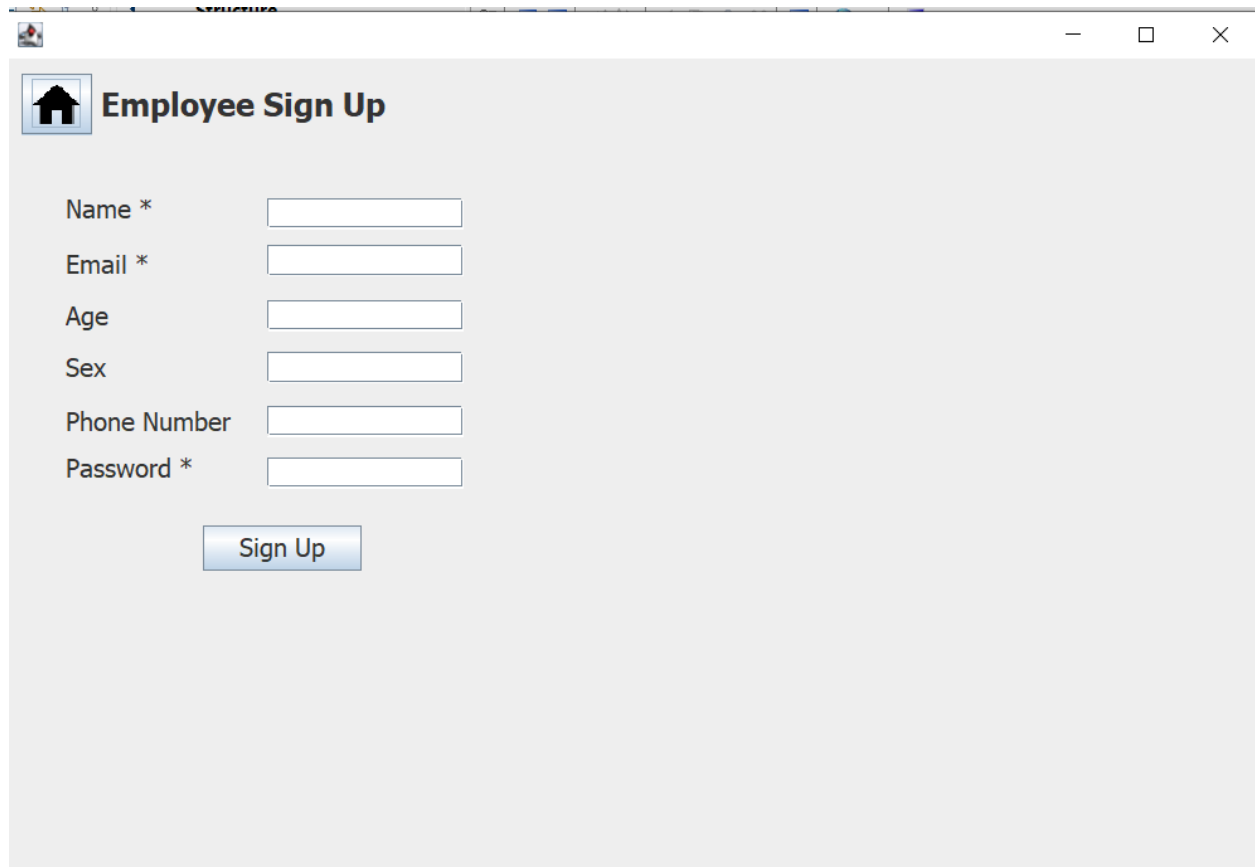
The screenshot shows a web browser window with a title bar containing standard minimize, maximize, and close buttons. The page content is displayed on a light gray background. At the top left, there is a home icon inside a square button, followed by a blue button labeled "<- Back". To the right of these is the page title "Check out" in a bold, black font. Further right is a dropdown menu labeled "Options" with a downward-pointing arrow. Below the navigation elements, there is a table with three rows of information:

Payment method	123
Address	599 Fairview Elm IL 60616 USA
Total Price	13500.0


Centered below the table is a blue button with the text "Confirm order".

This is the checkout page. Customers can see their payment method, address, and total price here. They can choose to return to last page by clicking “Back” or “Home”, or finish the order by clicking on “Confirm order”.

Employee Sign up page



The image shows a web browser window with a title bar containing standard minimize, maximize, and close buttons. The page content is titled "Employee Sign Up" and features a small house icon. Below the title, there are six input fields arranged vertically, each with a label to its left. The labels are "Name *", "Email *", "Age", "Sex", "Phone Number", and "Password *". The "Name *", "Email *", and "Password *" fields have an asterisk indicating they are required. Each label is followed by a white rectangular input box. At the bottom of the form, there is a blue button with the text "Sign Up" in white.

 **Employee Sign Up**

Name *

Email *

Age

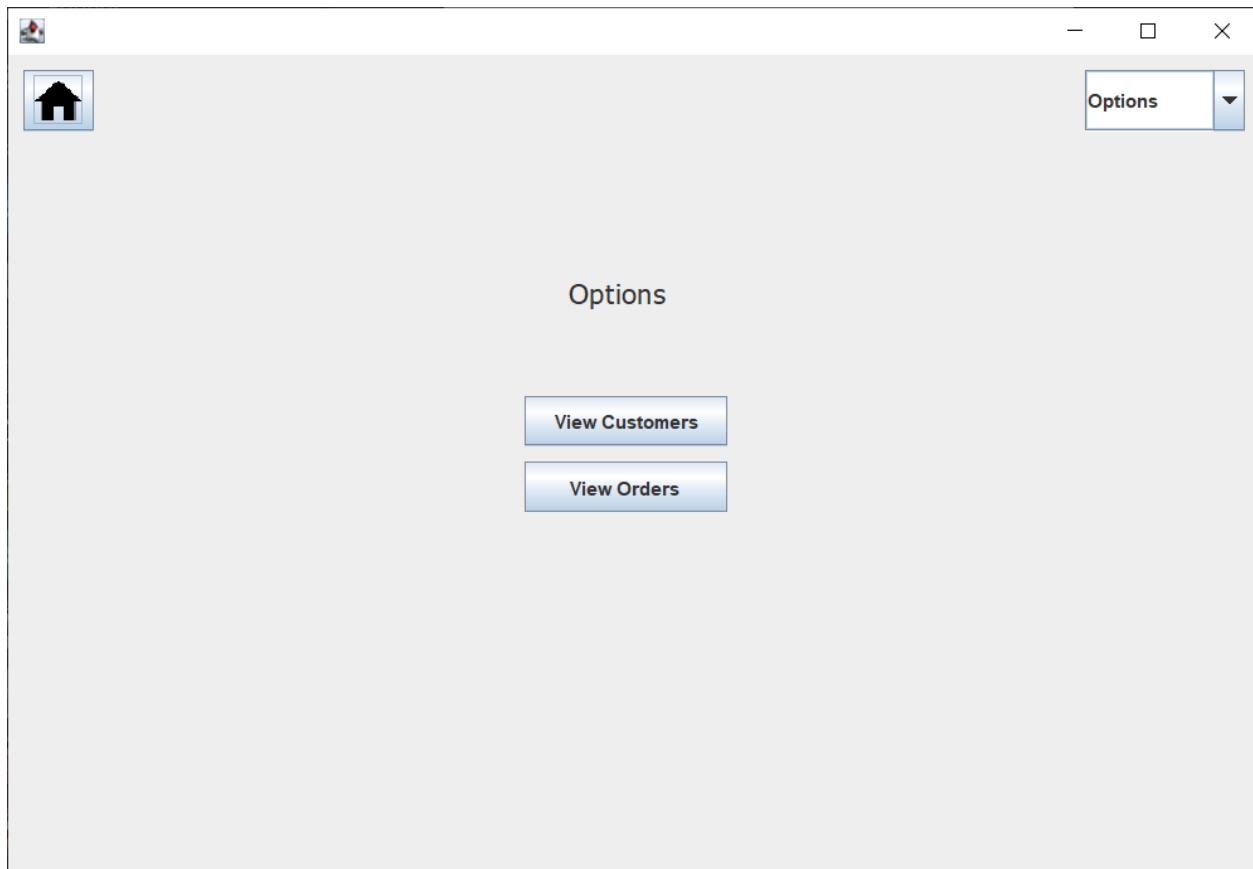
Sex

Phone Number

Password *

This is the employee sign up page.

Employee page



This is the main menu for employees. Employees will be able to view customers and orders, while the customers are only allowed to view orders.

[illegible]

View Orders page

[illegible]

In this page the customer can view all of the orders of all of the customers in the database. This is useful for future improvements of the application as it can be used for customer service.

Video demo link:

<https://drive.google.com/drive/folders/1SladFpyiS3xLwqtaYobohHFz64HDHLko?usp=sharing>