

Project Report

Electronic Vendor Database

Group 11



Group Members

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Introduction

We developed an electronics vendor that operates both a website and a chain of many physical stores. It allows customers to make purchases both online and in-person, and also browse our web-site in a convenient way.

To make it easier for customers, we have redesigned a major part of our database that underlies our company's operations by ensuring the ultimate customer experience, creating a successful inventory and effective way of shipping, and collecting sales data. These actionable implementations have greatly improved our database, and will ensure that a customer has the best experience when shopping from our store. This was possible through the usage of PHP servers and a SQL script. In addition, the frontend aspect of our application incorporates HTML, CSS, and JavaScript programming languages in order to develop a user-friendly searchable electronics vendor database.

For extra credit, we have also implemented cascading and analytics as shown towards the end of our demo video.

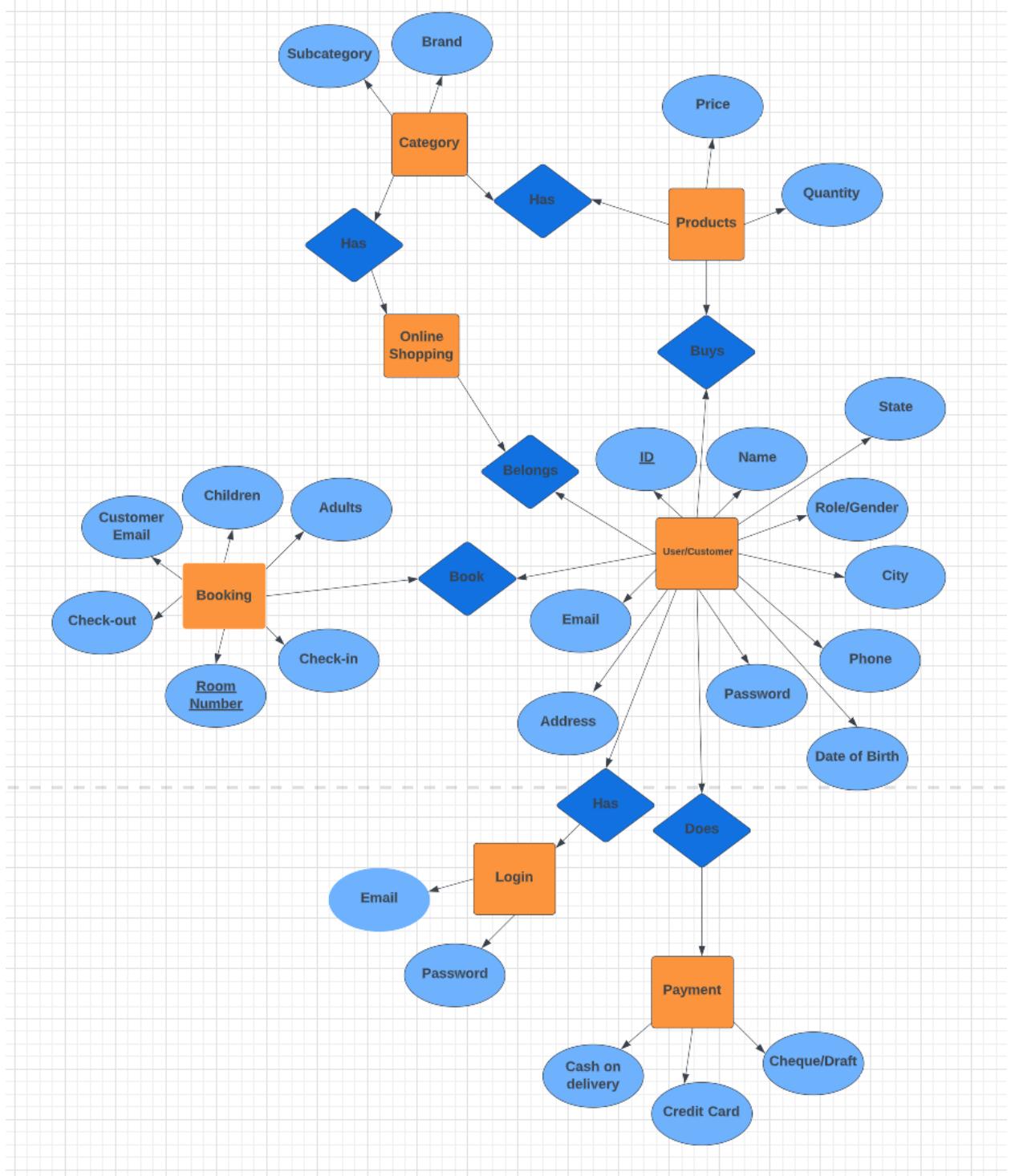
Features

Our reliable and comprehensible web application supports the following unique features:

1. Every customer can register an account with an email and will be assigned an ID (as a frequent customer). If one customer purchases multiple products from the website and physical stores, the same ID is used. It is also important to note that frequent customers can also purchase as infrequent customers.
2. A frequent customer holding an account can register/modify/delete the information for their account.
3. A frequent customer can complete their transactions online (including shipping) and check his/her purchase history from both website and the physical stores, as well as the stock information of different products available for purchase (both online and physical stores).
4. Infrequent customers can complete their online transactions using their credit cards. Before each purchase, the system checks if the customer has enough available credit for the purchase (assuming that the available credit is also maintained by the electronic vendor).

ER Diagram

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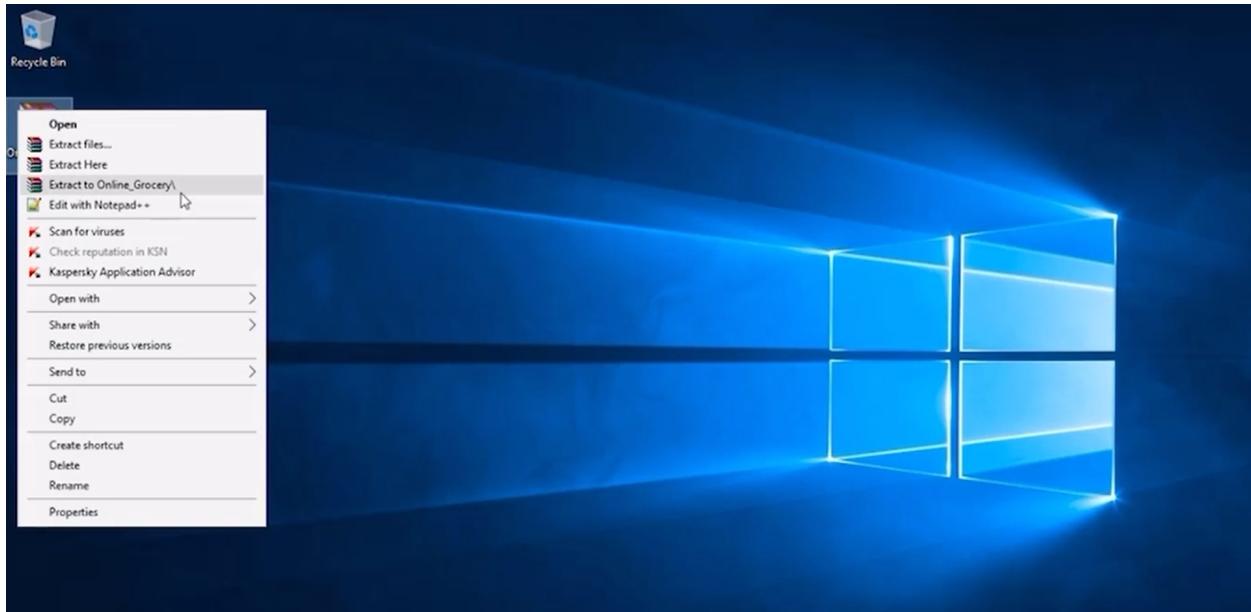
Steps to Run the Application

- a. Download the Visual Studio integrated development environment (IDE) on your laptop or computer if it has not already been installed yet.



- b. Extract the zip file called “Grocery.zip” on your device.

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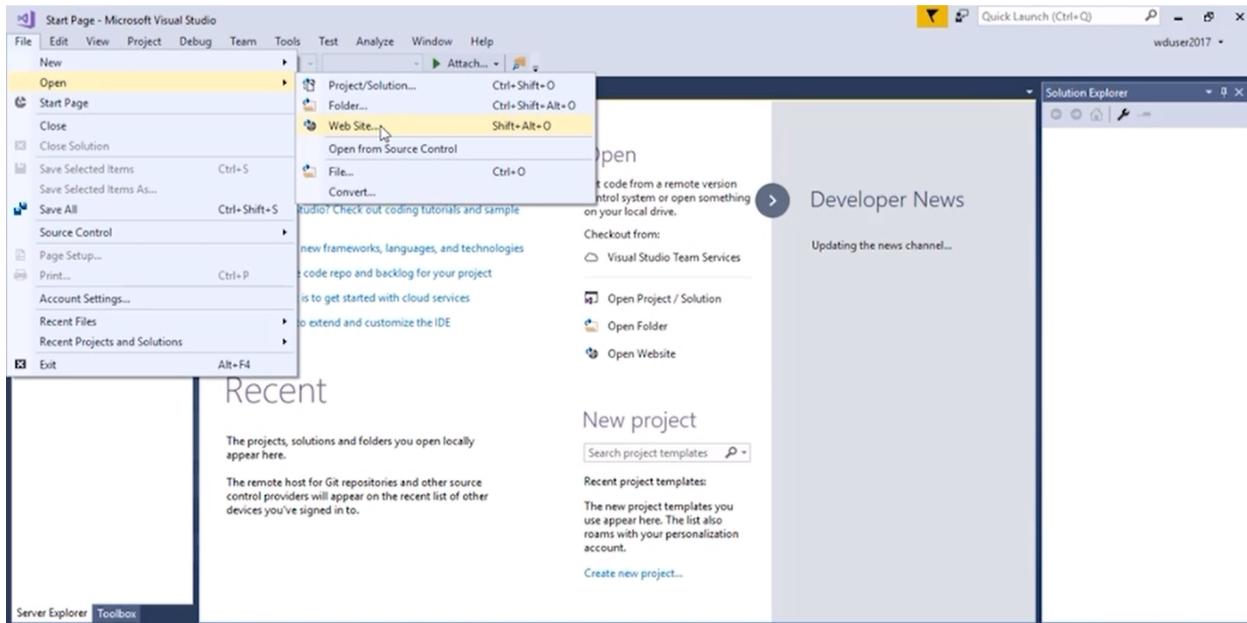


- c. Open Visual Studio Code in order to open all the components from the zip file (If you are using Visual Studio Code Version 2019 or 2022, click “continue without code”).

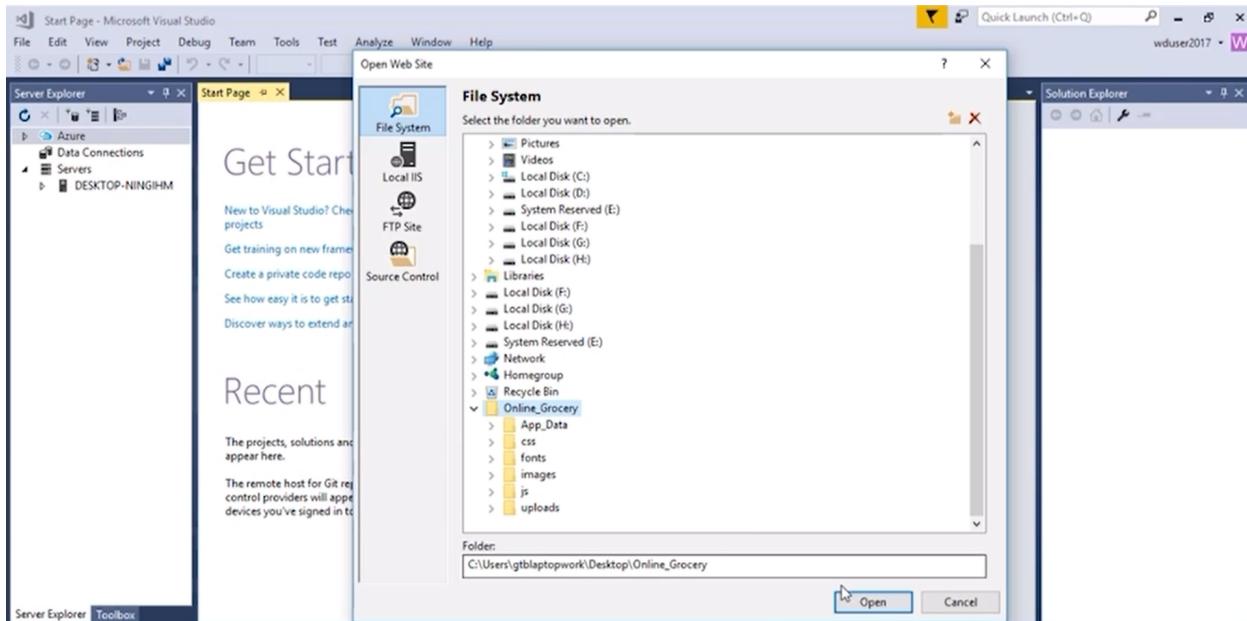


- d. Navigate to the File Menu, and select “Go to Open.” From there, click on “Website.”

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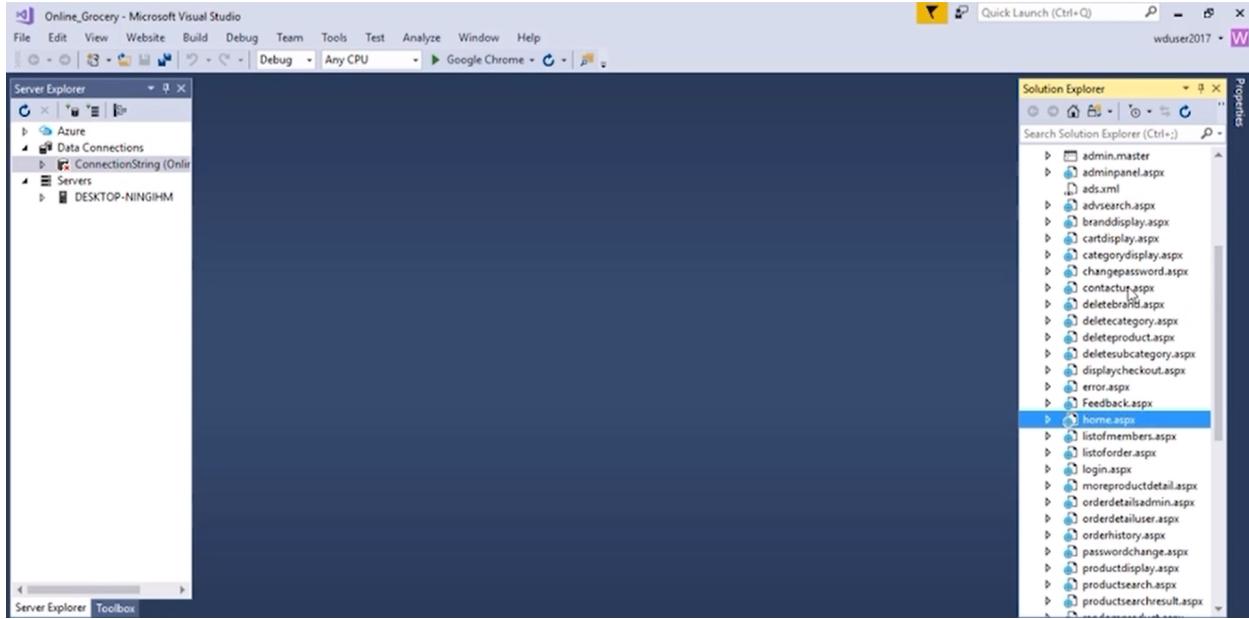


- e. Choose the folder that was initially extracted from “Grocery.zip” and select the “open” option.

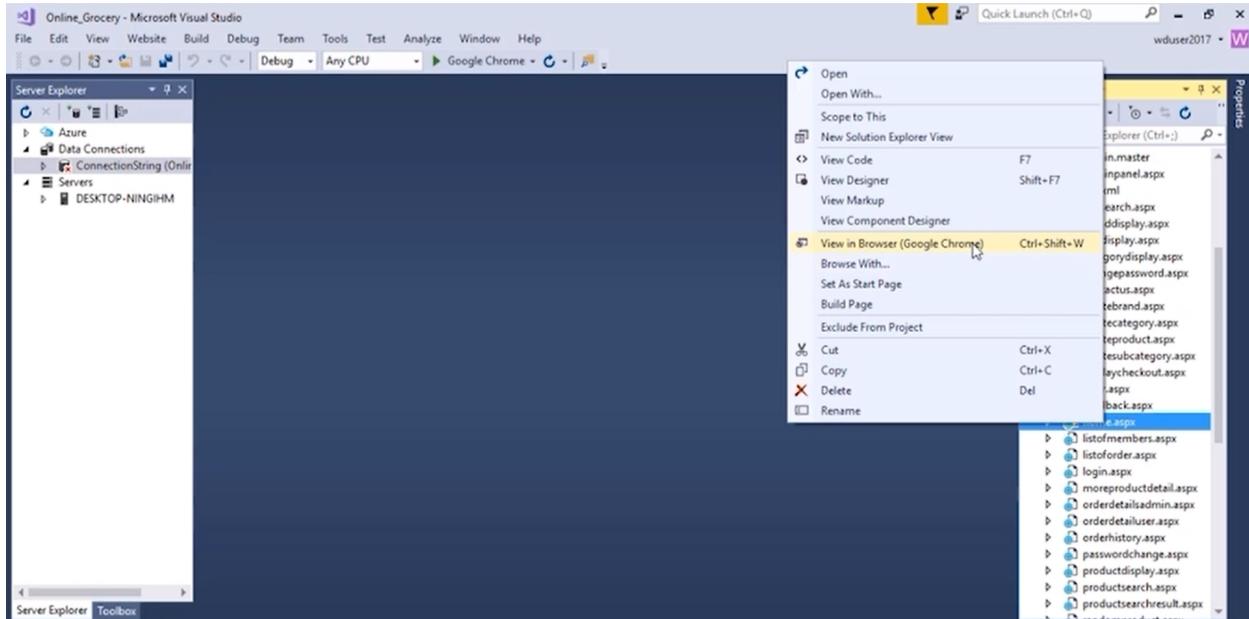


- f. The electronics vendor web application will open in Visual Studio.

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- g. Navigate to Solution Explorer. Here, right click on the ASPX file that is available. Choose “View in Browser.” (Since this application is already connected to your local server, do not attempt to compile/debug this file or set it in IIS because doing so could lead to memory storage issues on your device).



A. Alternative Approach For Steps b-g:

- h. Download the XAMPP server on your computer or laptop.

- i. Once the server has been downloaded, open the server and save the files in htdocs of the XAMPP server folder using the Finder.
- j. Open the terminal and use the command ~chmod 7777 to save all the files to the server.
- k. Create a local host and change the setting in add.php.
- l. Run the localhost on your device.

Screenshots and Application Description

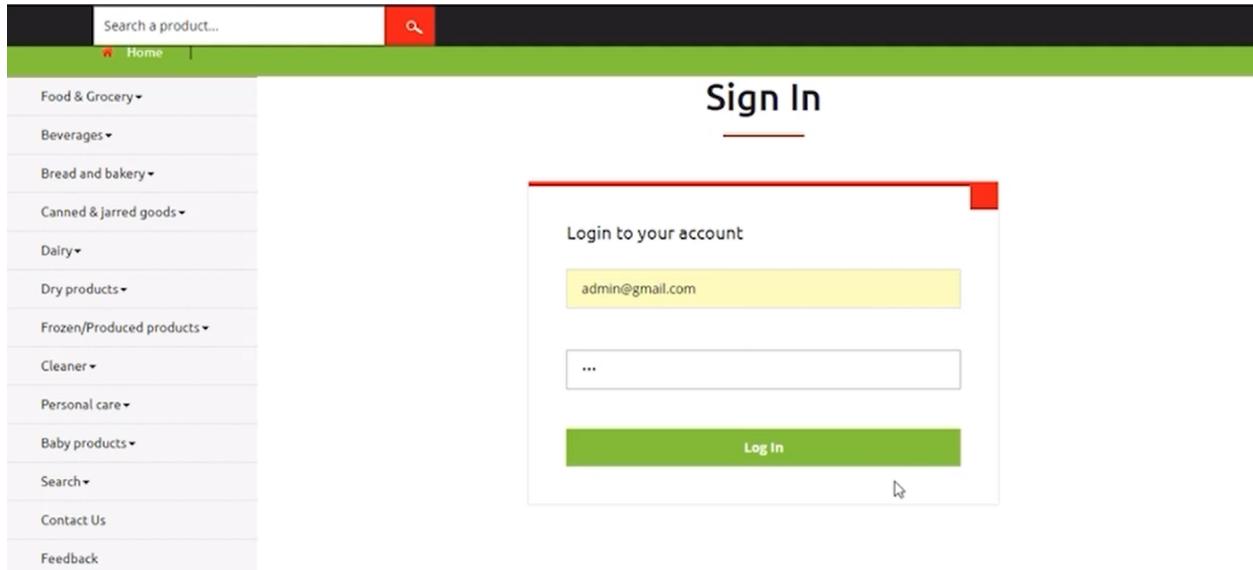
Administrative Access

To gain administrative access to make changes and monitor the database, assign users and privileges to databases, tables and even columns.

To access admin, please use the username and password below :

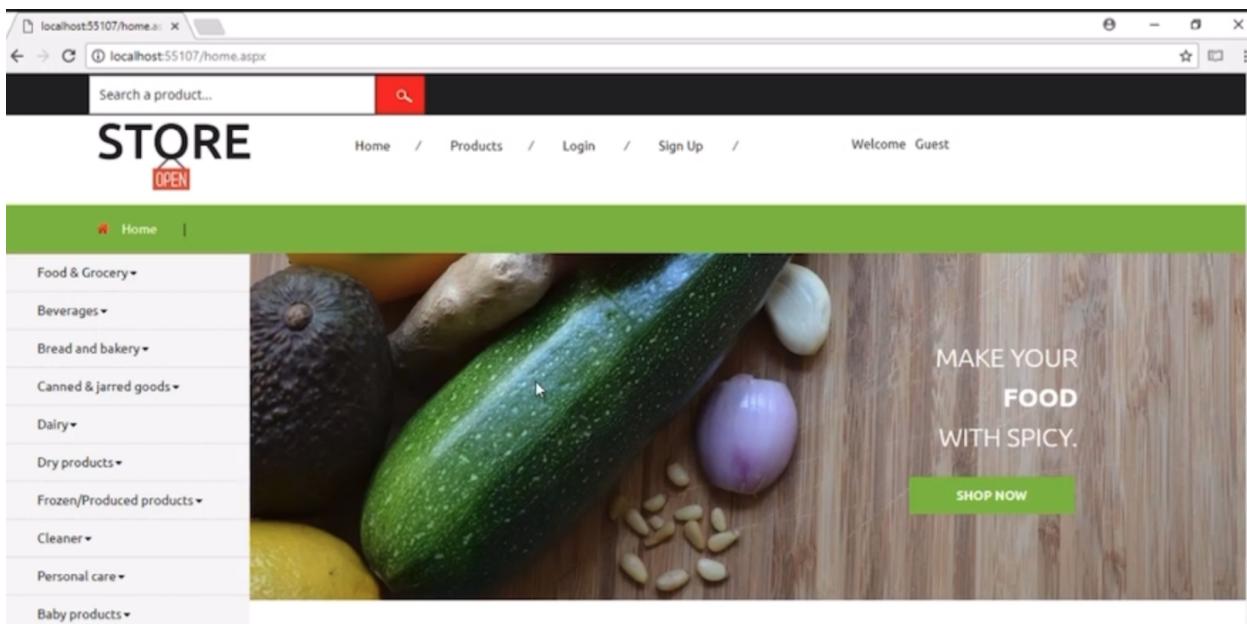
Username: - admin@gmail.com

Password: - 123

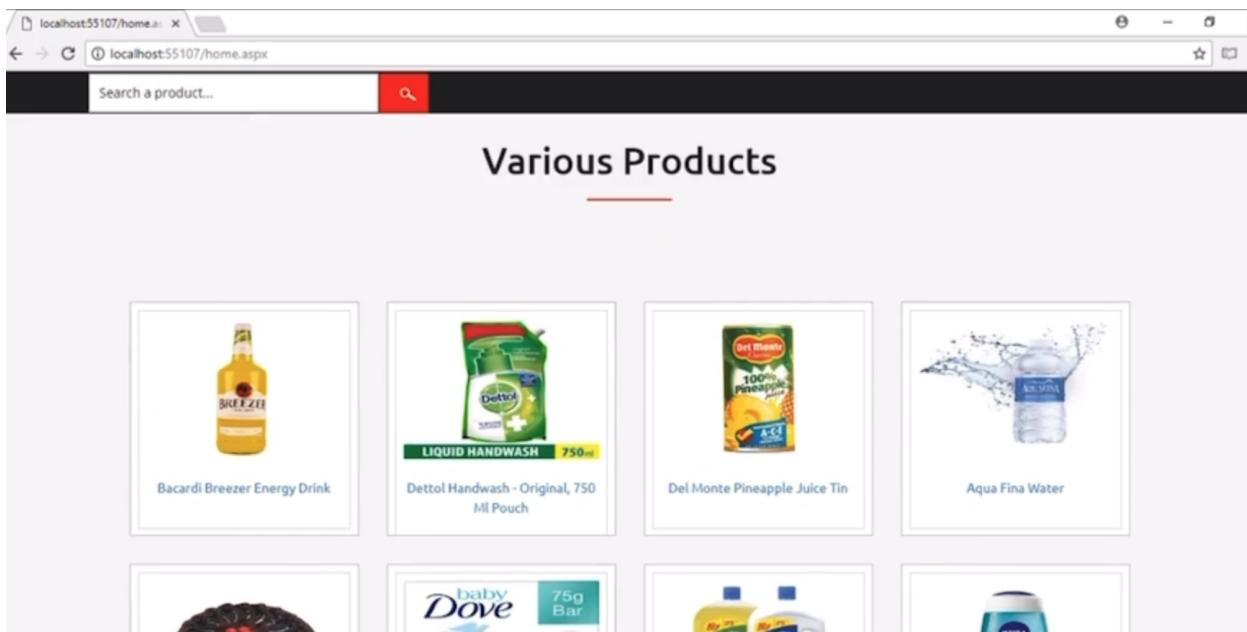


Once the user has logged into the system, he/she is able to view the home menu. This menu consists of a list of categories, such as food & grocery, beverages, bread and bakery products, etc.

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When the user scrolls down further, he/she is able to view a list of all the various products offered at our online grocery store.

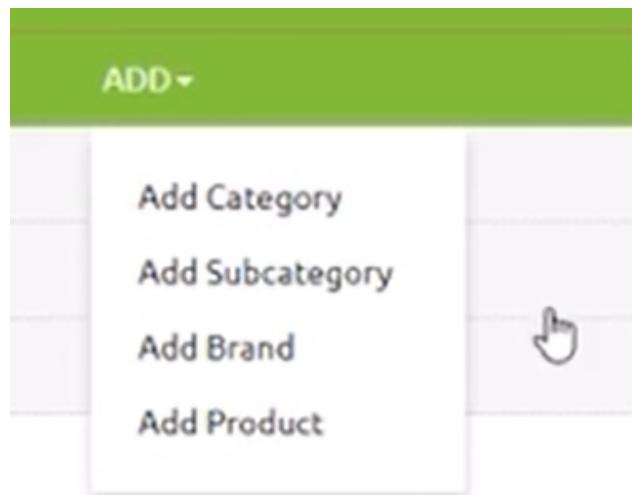


When a user selects a product, he/she is able to view the description and price of it. They are also able to select a desired quantity and add it to the cart.

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The screenshot shows a web browser window with the URL localhost:55107/moreproductdetail.aspx?pid=2074. The page has a green header bar with a search bar and a magnifying glass icon. Below the header is a navigation menu with categories like Home, Food & Grocery, Beverages, Bread and bakery, Canned & jarred goods, Dairy, Dry products, Frozen/Produced products, Cleaner, Personal care, Baby products, Search, Contact Us, and Feedback. The main content area displays a product titled "BRITANNIA NICE TIME - SUGAR SHOWERED COCONUT BISCUITS, 73 GM POUCH". It features a small image of the product packaging, a "DESCRIPTION:" section with text about the product, a "Price" of 10, a "Quantity:" input field containing the number 1, and a red "ADD TO CART" button.

The screenshots of our application below show the options that allows warehouses to add a new category, subcategory, brand, or product:



By clicking on “Add Category,” a warehouse user can add a category to the application as the inventory must be accurate both in stores and in warehouses used to replenish stores. It is

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important to re-stock the inventory so that when goods arrive, the inventory is updated and reorders are automatically marked as having been filled.

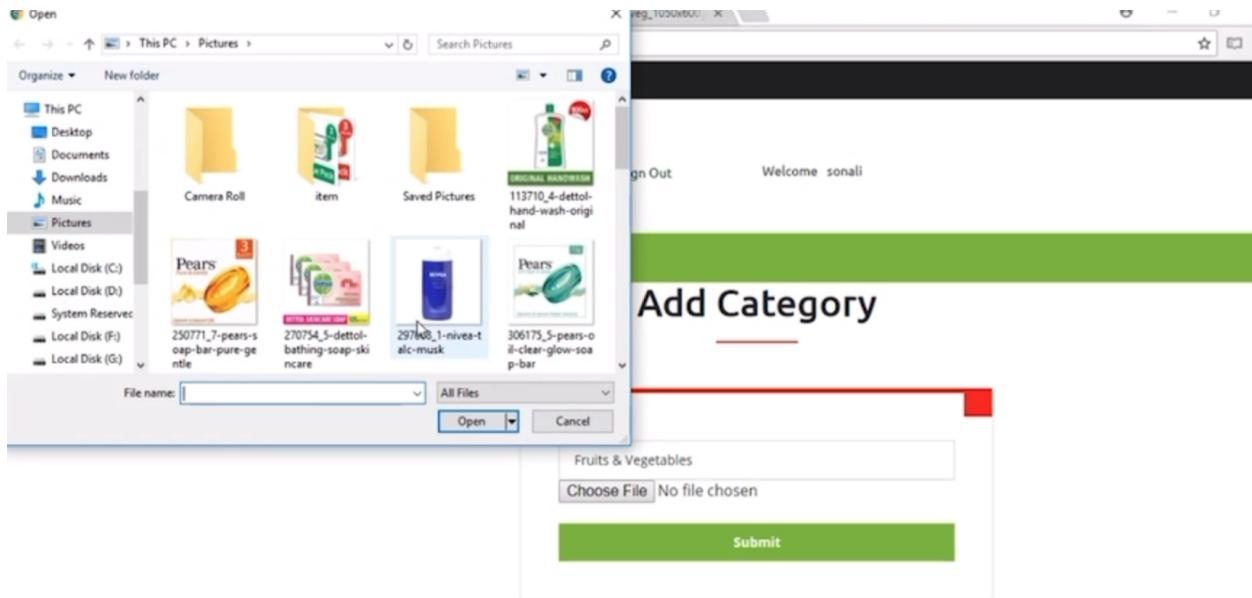
The screenshot shows a web-based grocery store management system. At the top, there's a header with 'GROCERY STORE' and an 'OPEN' sign. On the right, it says 'Welcome sonali'. Below the header, there's a navigation bar with links for 'Home', 'Change Password', and 'Sign Out'. A sidebar on the left has dropdown menus for 'ADD', 'UPDATE', 'DELETE', and 'VIEW'. The main content area is titled 'Add Category' and contains a form. The form has a text input field with 'Fruits & Vegetables' typed into it, a file upload field labeled 'Choose File' with 'No file chosen', and a green 'Submit' button. Below the button, a message says 'Category added successfully'.

Here, the warehouse/store user is able to add a category, which is a method used to update the inventory. For example, we are restocking the inventory by getting cauliflower from www.bigbasket.com and adding it to our application so that users can buy it.

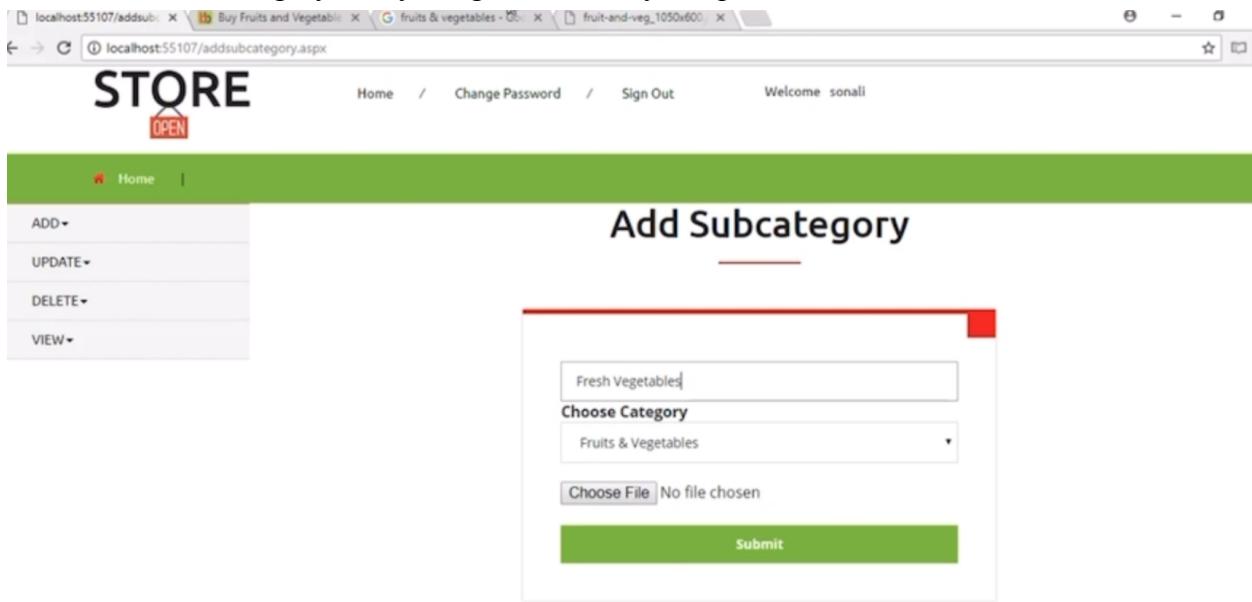
The screenshot shows a product page for 'Fresho Cauliflower 1 pc' on the BigBasket website. The URL in the address bar is https://www.bigbasket.com/pd/10000074/fresho-cauliflower-1-pc/. The page features the BigBasket logo at the top left. To the right, there are links for '1860 123 1000', '100 Feet Rd-Koramangala, Bangalore', 'Login | Sign Up', and 'My Basket 0 items'. The main navigation includes 'SHOP BY CATEGORY', 'OFFERS', 'BB EXPRESS', 'BB SPECIALTY', and 'MORE STORES'. The breadcrumb navigation shows the path: HOME > FRUITS & VEGETABLES > FRESH VEGETABLES > CABBAGE, CAULIFLOWER, BROCCOLI > FRESHO CAULIFLOWER. The product section on the right displays two images of a cauliflower head with green leaves. The text 'FRESHO Cauliflower, 1 pc (approx. 400 to 600 gm)' is displayed above the images. On the left sidebar, there's a menu for 'Fruits & Vegetables' with categories like 'Fresh Vegetables', 'Cabbage, Cauliflower, Broccoli', and 'Root Vegetables'. There's also a 'View More' link and a 'Brands' section.

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We are also able to group the different products into a variety of categories by using the “Add Category” option. Here we are adding a category called “Fruits & Vegetables.”

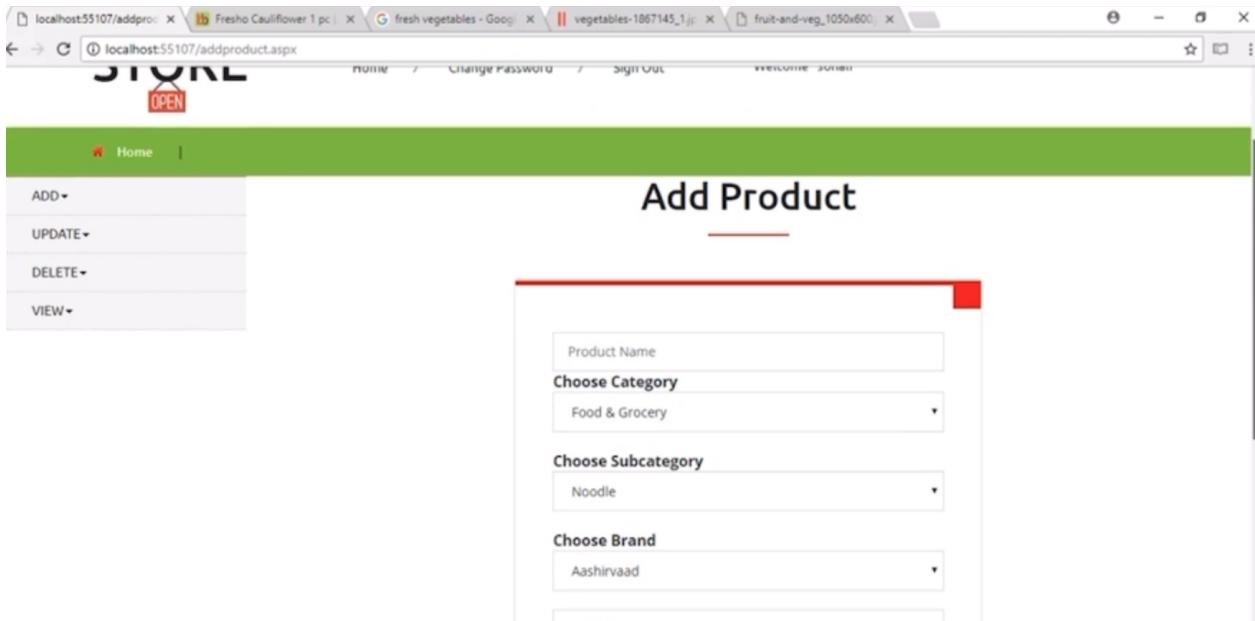


We can also add a subcategory to inventory. If the user navigates to “Add Subcategory” and then selects “Choose Category,” they are given a variety of options to choose from.

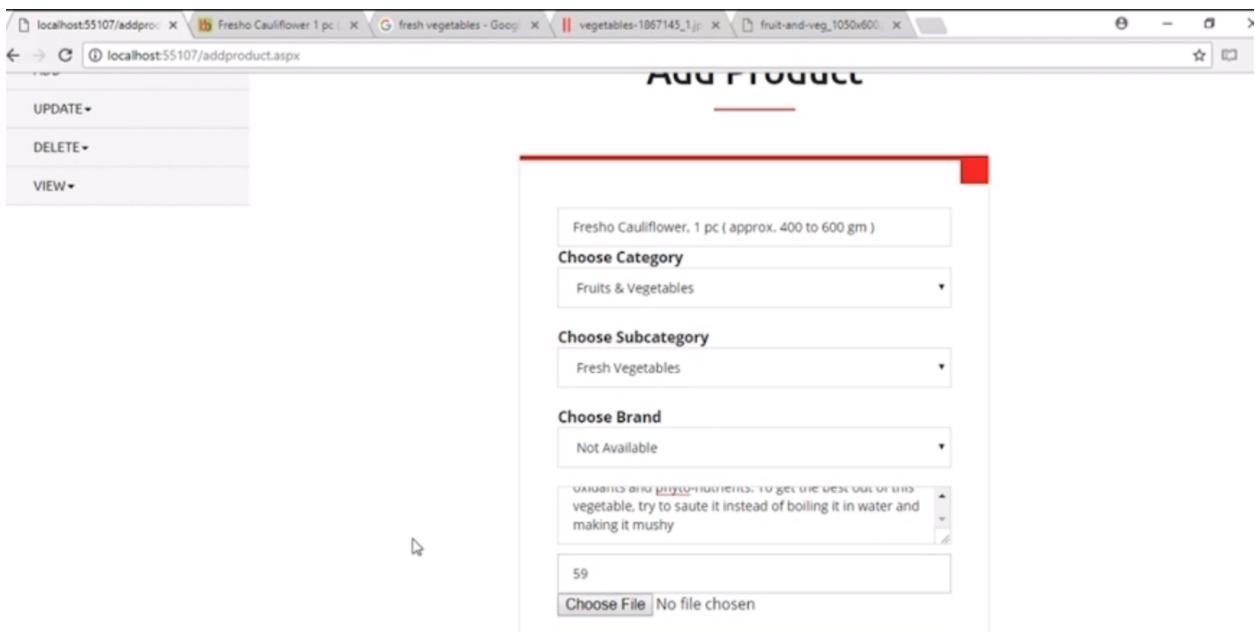


Through our unique application, we can also add products, their associated categories, subcategories, and even brands. This is just another way to update the inventory when the goods arrive so that the re-orders are automatically filled.

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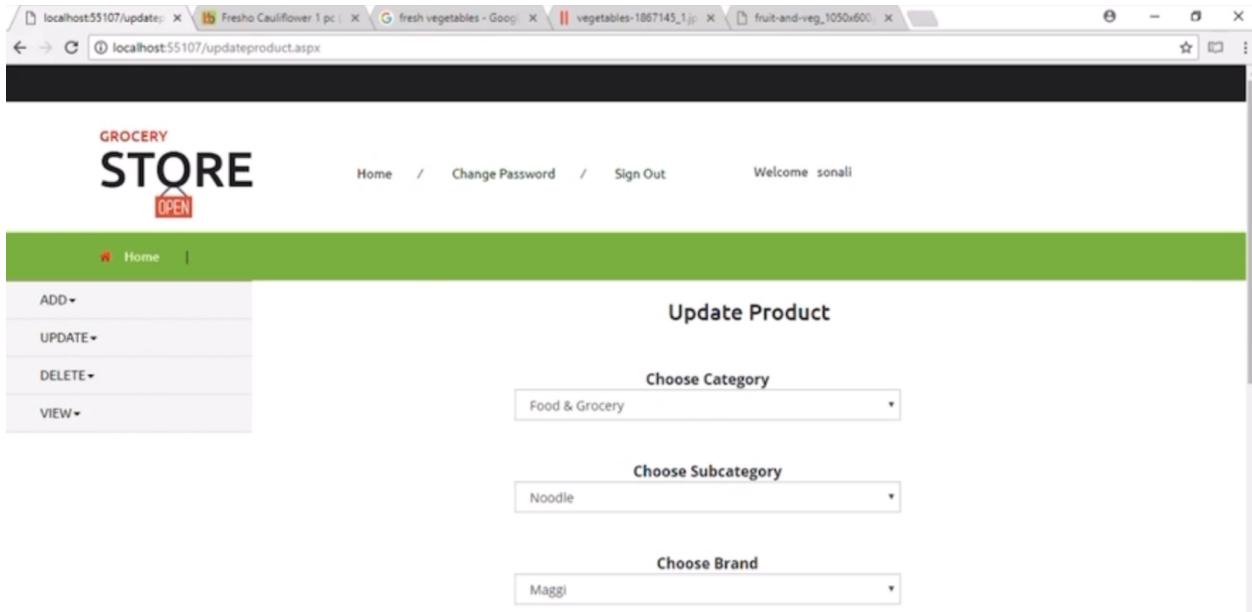


If the user scrolls down further, they are also able to provide a description for the product and its desired quantity.

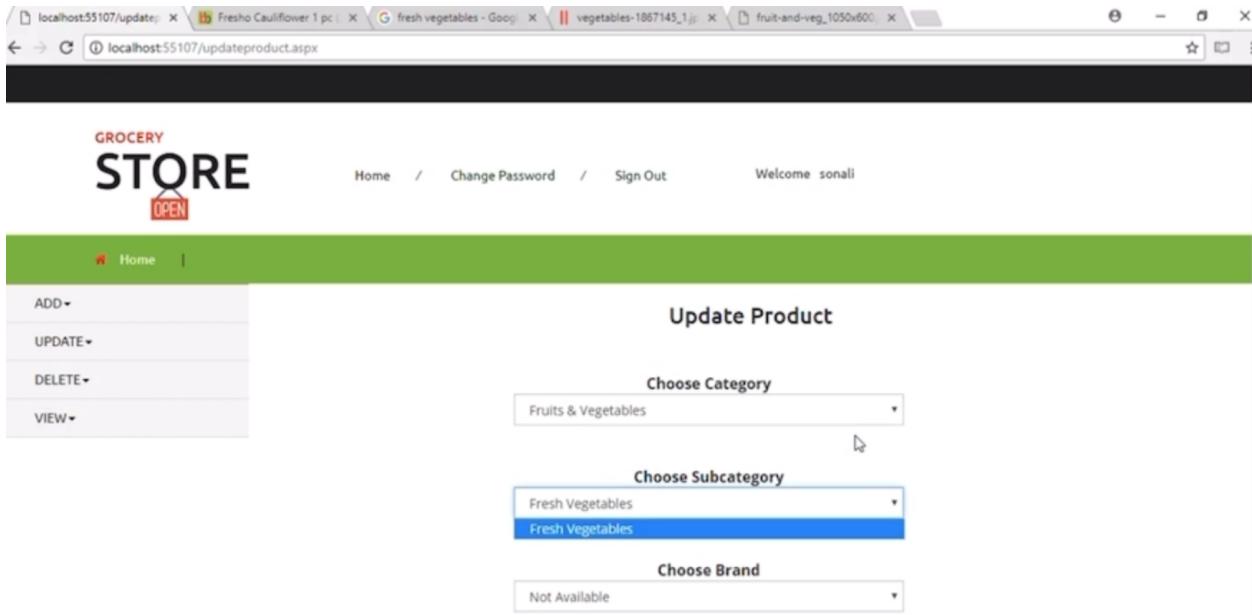


A user can also choose to update the product in order to ensure that the inventory is providing the products accurately.

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Once again, the user can go through the process of updating the product again. This can be done by choosing the category, the subcategory, and lastly, the brand (the products can be grouped into a variety of categories).

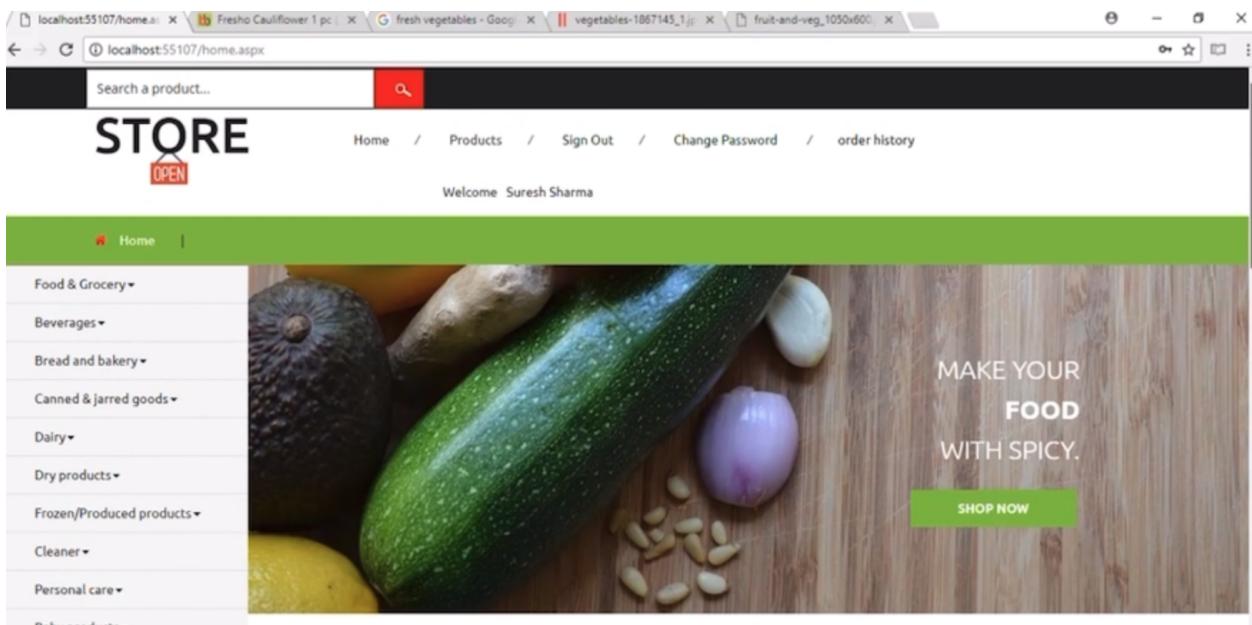


In addition to updating the products that are available in our inventory, our application allows customers to input the following characteristics: name, address, city, state, phone number, gender, and profile. They can also enter an email, password, and date of birth to sign up to use our application.

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The screenshot shows a web browser window with the URL localhost:55107/signup.aspx. The page has a dark header bar with a search input field and a magnifying glass icon. On the left, there is a sidebar with dropdown menus for categories like 'Dry products', 'Frozen/Produced products', 'Cleaner', etc., and links for 'Search', 'Contact Us', and 'Feedback'. The main form area contains fields for 'Name' (Suresh Sharma), 'Address' (32 Model Town), 'City' (Ludhiana), 'State' (Punjab), 'Phone Number' (7894561230), 'Gender' (Male selected), 'Profile Picture' (choose file), and 'Check Availability' (available). Below these are fields for 'Password' (should be same as phone number) and 'Date of Birth' (18/6/2005). A large green 'Sign Up' button is at the bottom right.

After the customer creates an account or signs up to use it for the first time, they are directed to the main home page.



Through our unique application, a customer is able to select products and add them to the cart.

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The screenshot shows a web browser displaying a shopping cart page. On the left, there is a sidebar with a search bar and a list of product categories: Canned & Jarred goods, Dairy, Dry products, Frozen/Produced products, Cleaner, Personal care, Baby products, Fruits & Vegetables, Search, Contact Us, and Feedback. The main area displays three items:

- Fresho Cauliflower, 1 pc (approx. 400 to 600 gm) - 1 unit, 40 gm, 40 price.
- Amul Cheese - Slices, 200 gm Pouch - 3 units, 118 gm, 354 price.
- McCain Aloo - Tikki, 760 gm - 2 units, 160 gm, 320 price.

Each item has a small image and a red 'X' button to remove it from the cart.

After the user has selected all their desired products and added it to the cart in our application's check-out method, a customer can select a payment method as shown below. The following payment options are cash on delivery, credit card, and cheque/draft.

The screenshot shows a web browser displaying a check-out page. On the left, there is a sidebar with a search bar and a list of product categories: Food & Grocery, Beverages, Bread and bakery, Canned & Jarred goods, Dairy, Dry products, Frozen/Produced products, Cleaner, Personal care, Baby products, Fruits & Vegetables, Search, Contact Us. The main area is titled "Check Out" and contains a payment form:

Payment

Cash on delivery
 Credit Card
 Cheque/Draft

Credit Card no.

Choose Company Name

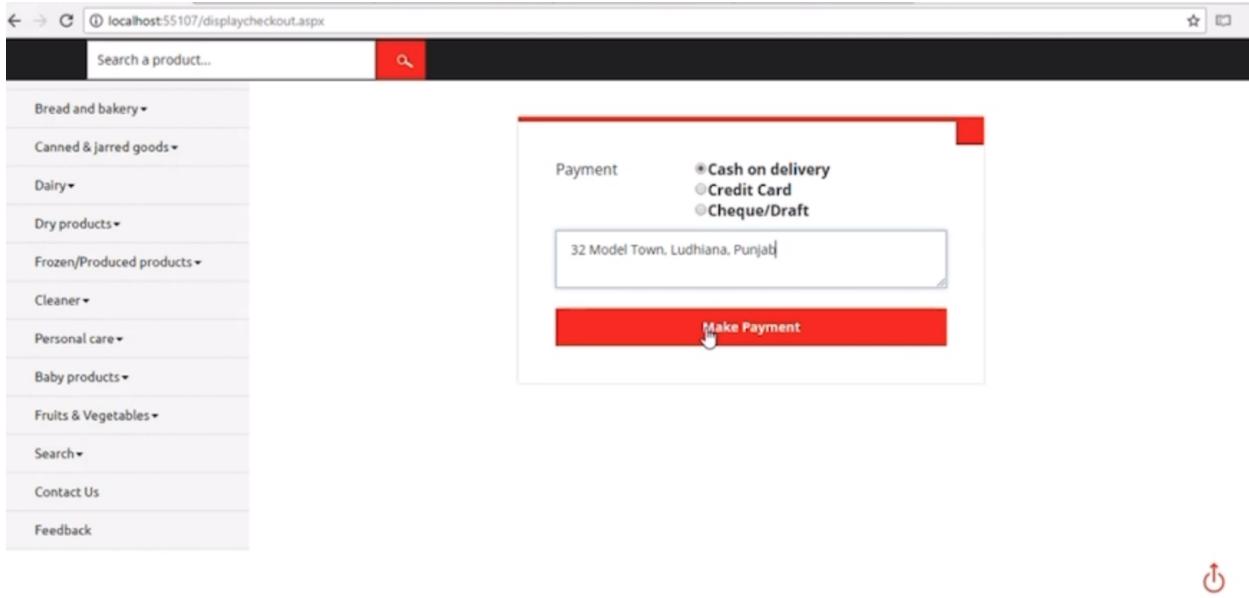
Holder Name

Expiry Date

Shipping Address

Once the customer has selected the check-out information, he/she can input a shipping address in order to proceed to make the products' payment.

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After making the payment, the customer is able to view the order number, total bill, and summary of the shopping information.

The screenshot shows a shopping summary page. At the top, there's a search bar with placeholder text 'Search a product...' and a magnifying glass icon. To the right of the search bar, a red 'OPEN' button is visible. The top right corner shows a welcome message 'Welcome Suresh Sharma'. The main content area has a green header bar with a 'Home' link. Below this, there's a sidebar with categories: Food & Grocery, Beverages, Bread and bakery, Canned & Jarred goods, Dairy, Dry products, Frozen/Produced products, Cleaner, Personal care, and Baby products. The main content area displays a message: 'Thanks for shopping on our website. Your order number is 23 . Your total bill is Rs.714 . Summary of your shopping is as below'. Below this message is a table showing the shopping summary:

Product image	productname	quantity	rate	totalcost
	Fresho Cauliflower, 1 pc (approx. 400 to 600 gm)	1	40	40
	Amul Cheese - Slices, 200 gm Pouch	3	118	354

Extra Credit: Our service also allows a customer to search a product by name. This option is essentially a search bar that allows the user to get access to the product image, name, feature, rate, as well as its details in more depth.

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The screenshot shows a search results page for the query "maggie". The page has a green header bar with a search bar containing "Search a product..." and a magnifying glass icon. Below the header is a navigation menu with categories like Food & Grocery, Beverages, Bread and bakery, Canned & jarred goods, Dairy, Dry products, Frozen/Produced products, Cleaner, Personal care, Baby products, Fruits & Vegetables, and Search. The main content area is titled "Search By Name" and displays two product entries in a table.

Product image	Product name	Feature	Rate	Product Detail
	Maggi Noodles - Masala, 12x70 gm (Multipack)	MAGGI 2-Minute Noodles is one of the largest & most loved food brands that defines the Instant Noodles category in India by being a part of our way of life. It has been bringing people together and is the favorite of millions: living in our hearts it has become intertwined in some of peoples most memorable experiences. Made out of choicest roasted spices and quality ingredients through a world class noodles technology. MAGGI 2-Minute Noodles brings to you goodness that you can always trust.	144	Show detail
	Maggi Atta Noodles - Vegetable Masala, 75 gm Pouch	MAGGI VEG ATTA Noodles exemplifies the "Taste Bhi Health Bhi" promise of MAGGI. Tasty as it comes packed with everyone's favourite MAGGI Masala taste & healthy because it is made with ATTA and has real vegetables in it. Each delicious serve (80g) of MAGGI Veg Atta Noodles provides dietary fibre equal to 3 rotis.	20	Show detail

Extra Credit: A customer is also able to stay in touch with our electronic vendor database by providing us with their contact information (email address and phone number).

The screenshot shows a contact form page. The left sidebar contains a navigation menu with categories like Dry products, Frozen/Produced products, Cleaner, Personal care, Baby products, Fruits & Vegetables, Search, Contact Us, and Feedback. The main content area has input fields for "Email" (suresh@gmail.com), "Phone" (7894561230), and a "Message" text area. A large green "Submit" button is at the bottom of the form. At the very bottom of the page, there is a dark footer bar with the text "© 2016 Grocery Store. All rights reserved" and a small red logo.

Extra Credit: To ensure that our future customers have the best experience, we ask them for their feedback. The customer is asked to rate their overall satisfaction/experience with using the website. He/she is also asked if the website is user friendly and whether they want more products on site.

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localhost:55107/feedback.aspx

Search a product...

Bread and bakery

Canned & jarred goods

Dairy

Dry products

Frozen/Produced products

Cleaner

Personal care

Baby products

Fruits & Vegetables

Search

Contact Us

Feedback

Suresh

suresh@gmail.com

7894561230

How can you rate our website overall?
 Bad Average Good Very Good Excellent

Is our website is user friendly?
 Yes No

Do you want more products on site?
 Yes No

Project Work Distribution

Gauri Kumari - Application Development, Application Testing, Database Design, Documentation, and ER Diagram

Nabilah Siddiqui - Application Development, Documentation, ER Diagram, UI Design