

Group Project 3 Write Up– Storefront with JavaScript

Team Members	
Name	SFSU ID
Juvenal Barajas	918573232
Bhavani Goruganthu	921178034
Hieu Ma	921506986
Abhiram Rishi Pratipati	921346982

Description:

“The Green Lamp” is an online nursery website where users can buy fresh plants. The website sells 4 categories of plants which includes shrubs, herbs, succulents, and indoor plants. The website includes consistent navigation, a home page, product page, and intermediate pages - FAQ, About, Login/Signup, User Settings, Cart & Checkout.

Approach / What We Did:

Hieu: For the JavaScript section of the project, what I did was add a dynamic cart number through local storage. The approach for this particular part was to add the quantity to the local storage. If the local storage didn't have the quantity key value pair, I would then initialize it. Else if it did have it, I would add to that value in the local storage. I also made it so that the prices on the product page adjust to the quantity amount. To do this I got the value of the product and multiplied it by the quantity selector's value.

Juve: Considering the JavaScript part of this assignment, I implemented login-in and sign-up functionality using local storage. I took the emails and passwords from the users on the sign-up page and stored those values into an array with a key value pair for each element. Once the user signs out, they will have to log in with the credentials they used on the sign-up page. My approach was to create an array with a key value pair for each element, and storing every user's login and password credentials with this array. I then created a function that verified if a user's credentials matched with those in my array by traversing my array of users until I found a match.

Abhiram: I updated the cart and checkout pages in accordance with Javascript and local storage. The user shouldn't have access in clearing their cart or proceeding to checkout if they didn't add any products. Using JS, the website will hide the cart page if there aren't any items and replace it with a heading asking users to add products to the cart. The user's order will be in an array of struct with product details and quantity of the production selection. Information of this array will be displayed in the cart page. The user can only proceed to checkout if they are logged in. In the checkout page, I added transaction company icons to show that this company accepts their cards. There is input validation at account entry, phone number entry, etc. I increased the delivery time font size because freshness is important for a garden company.

Bhavani:

- To start off, I created a products.json file and placed all our products in it and then used it to display the products on the home page & the details on the product pages. This way we have used a single product page and dynamically loaded content in it based on the user's request.
- Created separate html for navbar & footer and loaded them on all the pages using IFrames. This way one edit in the navbar is displayed on all the pages.
- Added the search functionality where the keyword entered & the category selected are used to filter products in the products.json file. Both Product Name & Product Description are checked for the keyword.
- Written scripts for the cart & checkout pages where items added to the cart are consistent even after refresh & the totals/count update based on the quantity that the user selected. The Items added to the cart are again fetched from the products.json file where id is matched and the product details are displayed.
- Updated the css for both cart & checkout pages and made them responsive.
- Implemented a isLoggedIn localStorage variable which is checked in all required pages and displays the content based on whether the user is logged in or not.
- Fixed merge issues on the navbar & the product pages.

Issues and Resolutions:

Hieu: Issues that I ran into initially was the unfamiliarity with local storage. However to resolve this I looked up the documentation and was able to use the methods and functions described to create my solution.

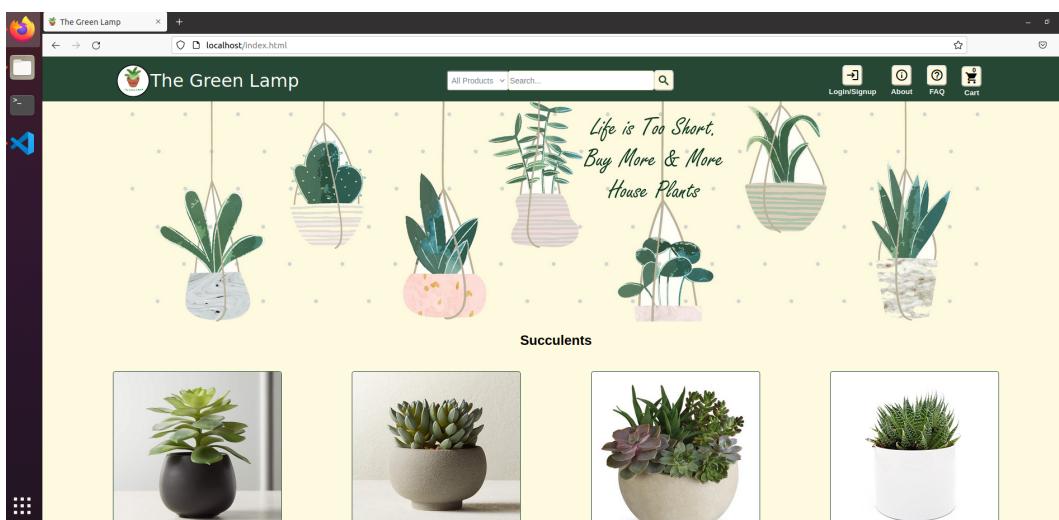
Juve: The only issues I ran into were not knowing javascript too well, and my lack of knowledge with local storage. I solved both issues with practice and w3schools.

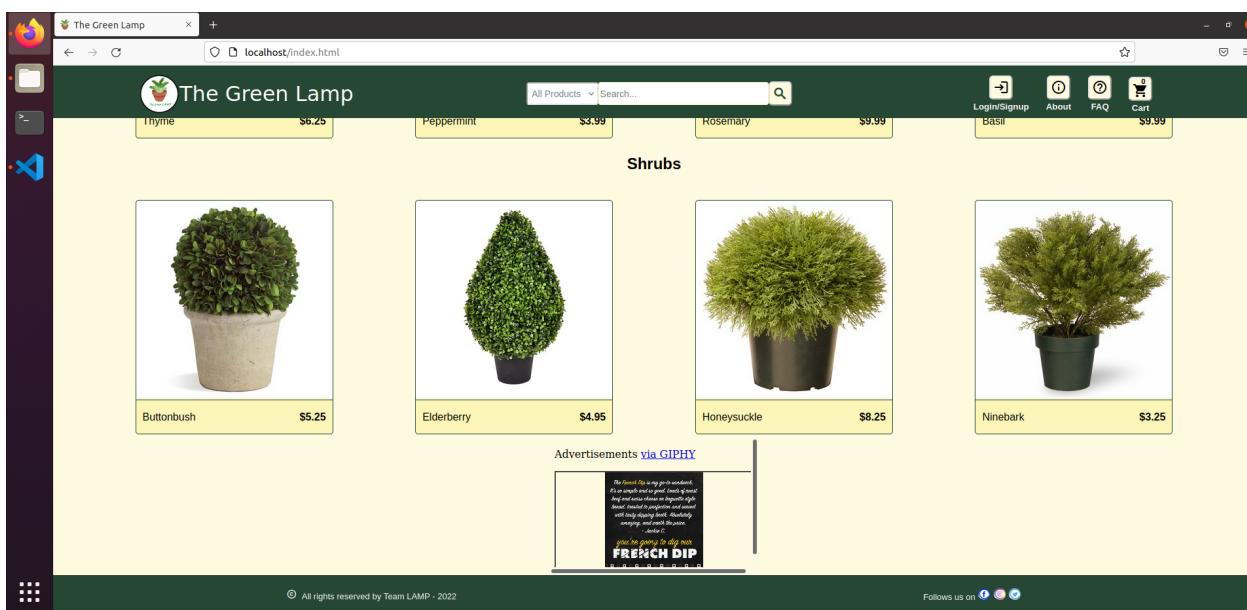
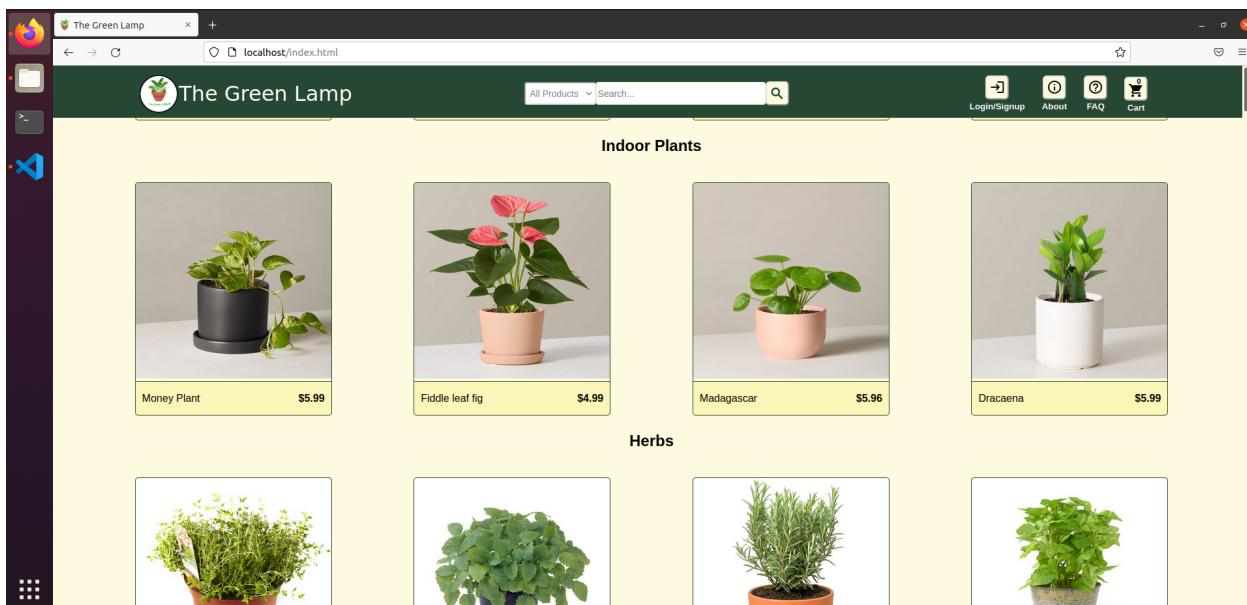
Abhiram: I got lost and confused at implementing local storage with our website. I took Bhavani and Hieu's help and implemented local storage and cart. In addition, I also used W3Schools and Mozilla for reference. I had an issue with adding a heading tag in Javascript after clearing the contents of cart webpage for not having products. I tried using appendChild and append but it didn't work. I later switched to innerHTML and the heading appeared with the appropriate CSS format.

Bhavani: I have no previous experience using vanilla javascript for any web development. I followed a few tutorials online to get the gist of its usage. I feel Vanilla Javascript is powerful enough to get a simple website functional. I had a tough time filtering through products from the json file using higher order functions like filter, forEach, map (didn't want to use the traditional for loops.) but eventually (using a lot of console logging) figured out ways to handle the filtering. Localstorage is a new concept to me and I am glad to get to know about it. I feel that our JS version is a much cleaner and very much functional website.

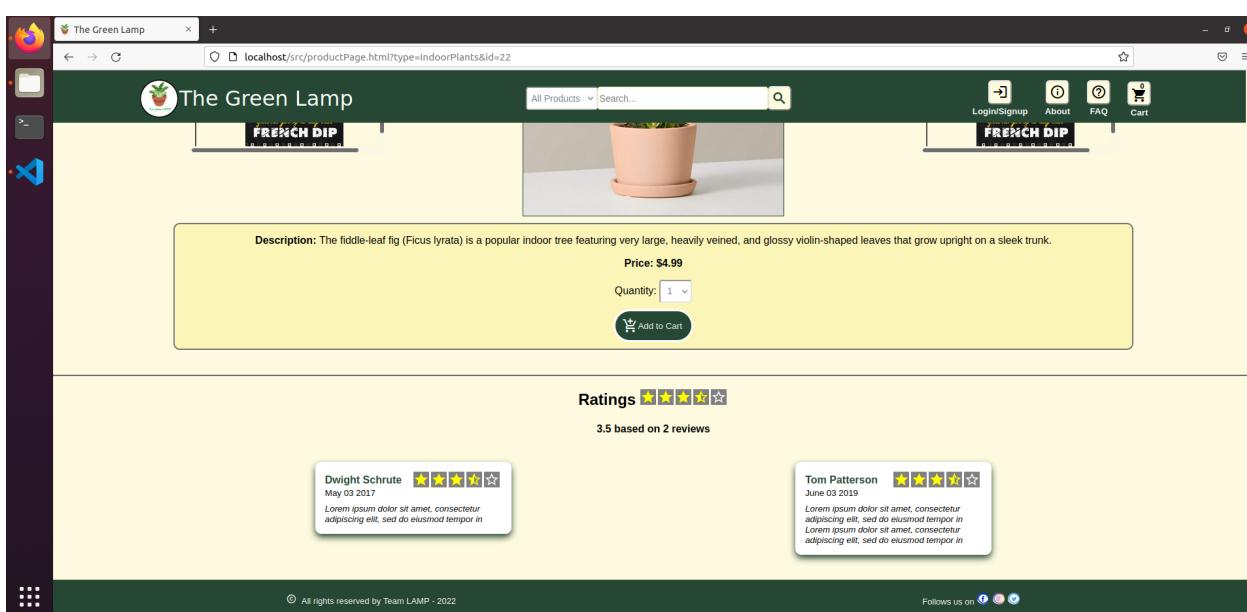
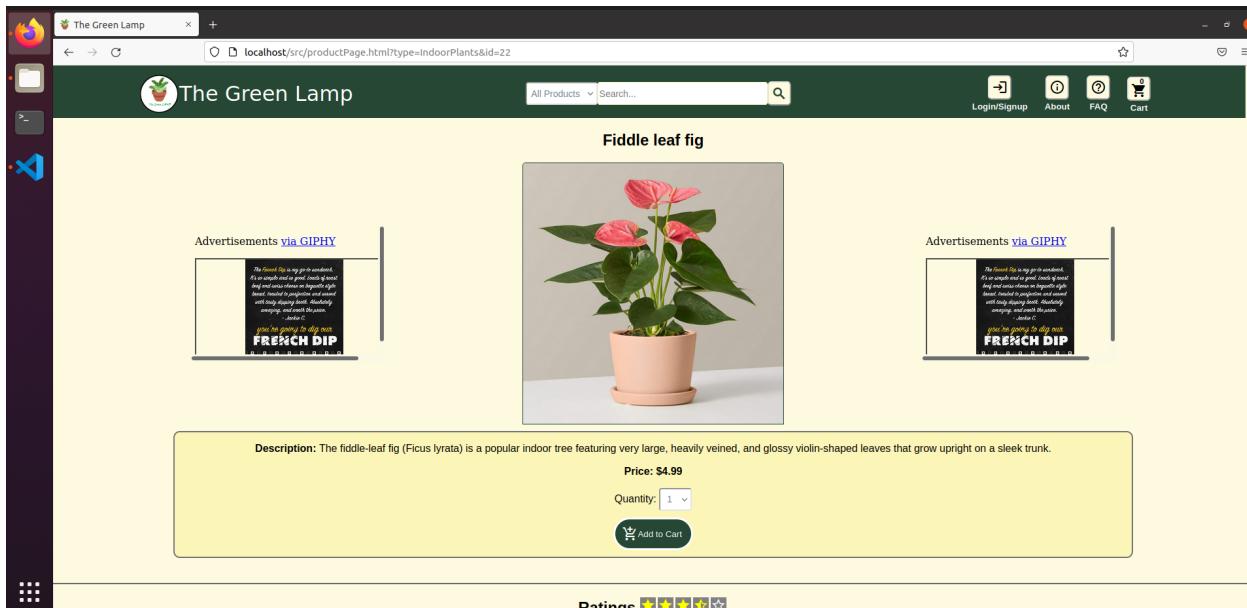
Source Code:

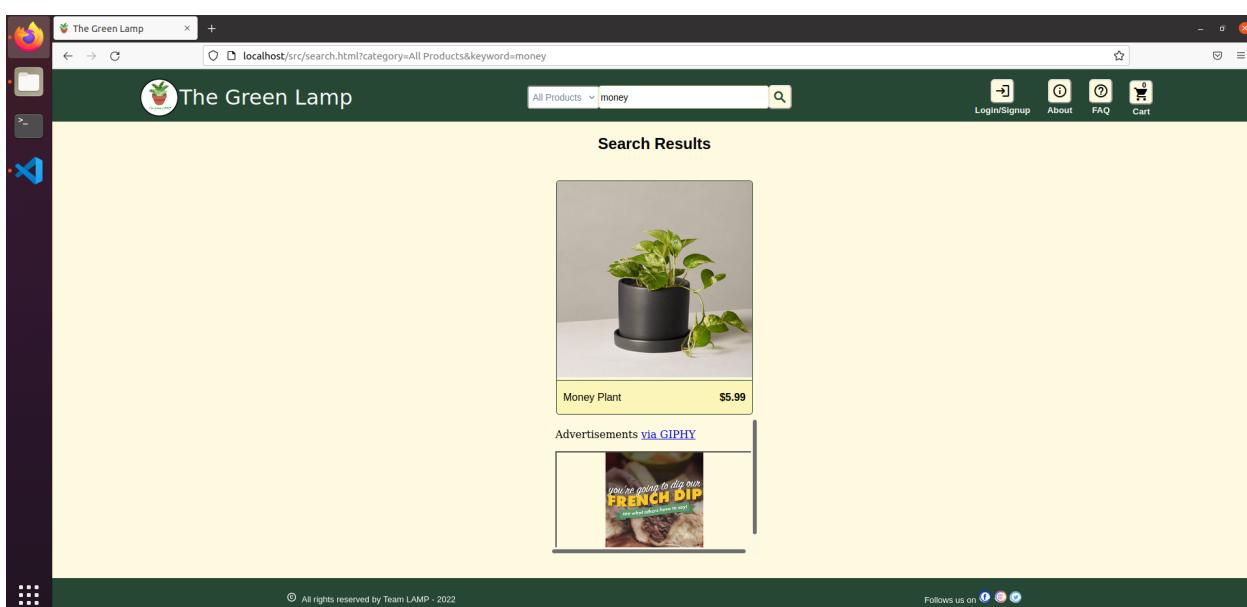
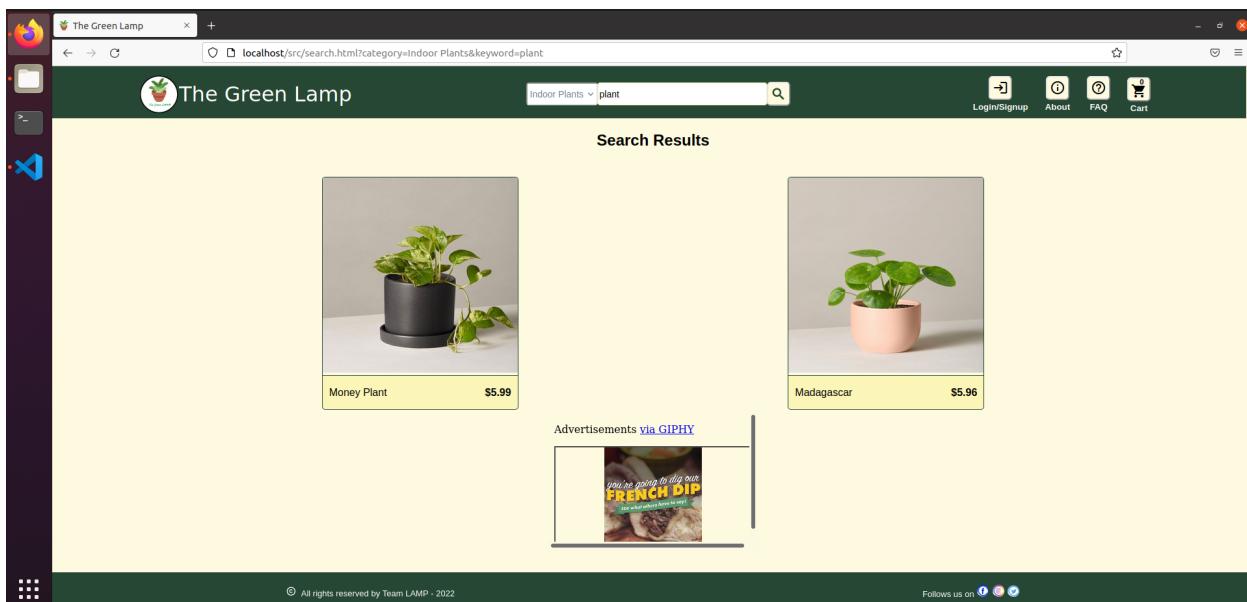
<https://github.com/CSC317-2022-Spring/csc317-group-html-bhavani-goruganthu>

Screen shots:**User Not Logged In:****Home page**



Product Page:



Search:

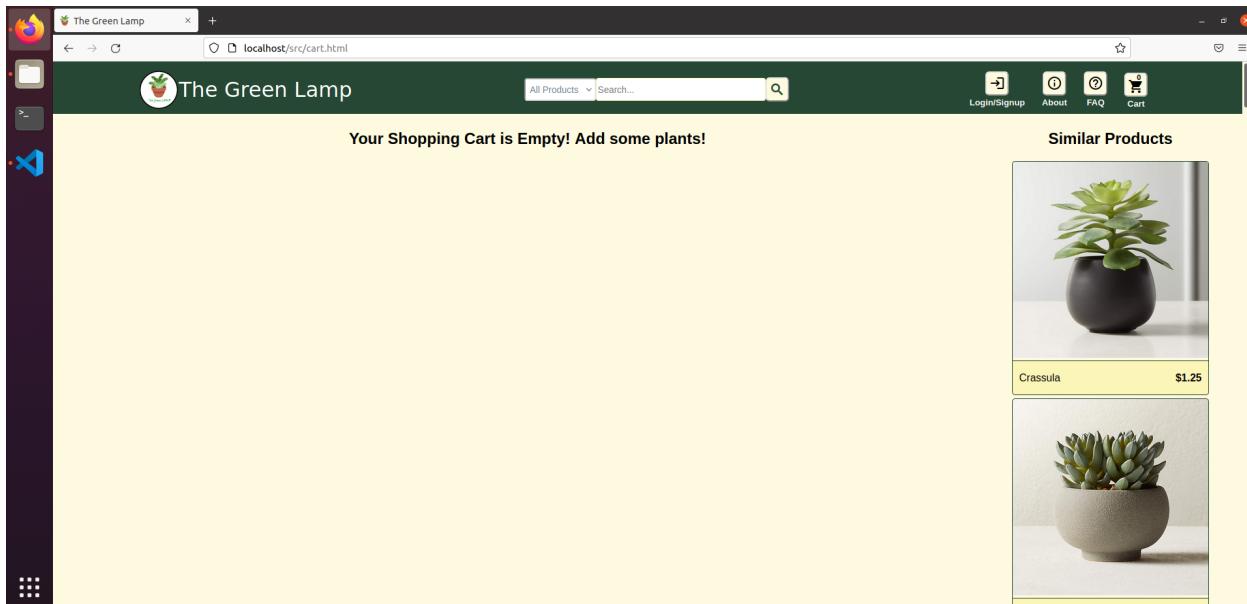
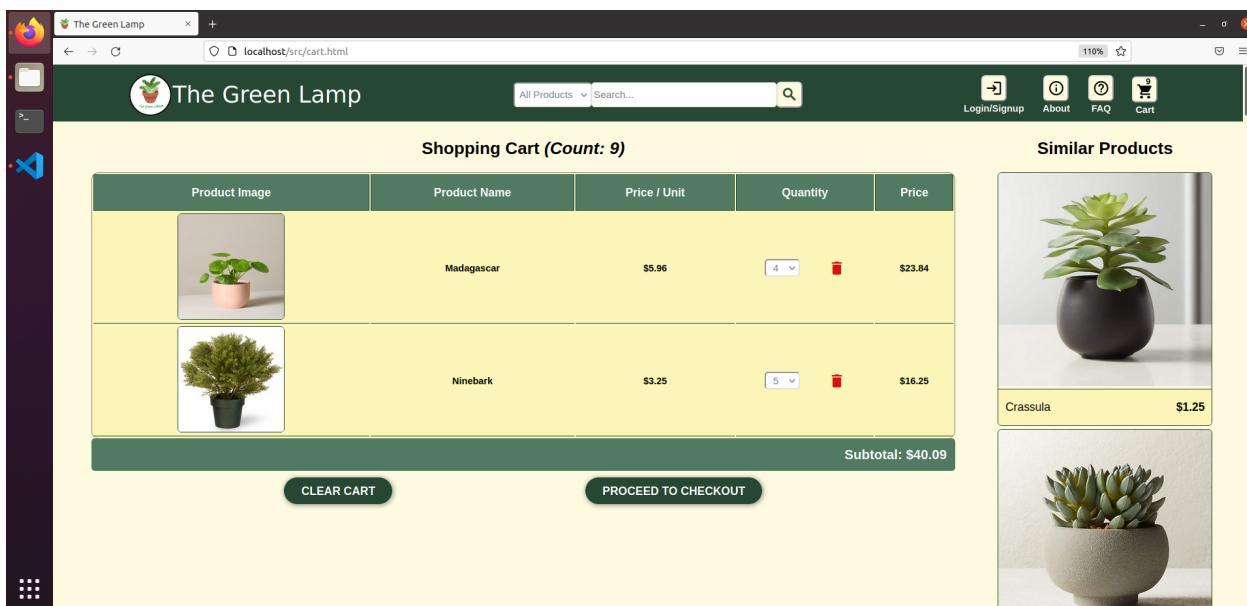
About

The screenshot shows the 'About' page of a website titled 'The Green Lamp'. The header includes a navigation bar with links for 'Login/Signup', 'About', 'FAQ', and 'Cart'. Below the header, there's a section titled 'About Team LAMP' with a quote from Audrey Hepburn: "To plant a Garden is to believe in tomorrow". A green sidebar on the left contains the text: "We here at The Green Lamp thrive for quality and are dedicated to offer you the best greenery works." It also lists 'Board Members: Juvenal Barajas, Bhavani Goruganthu, Hieu Ma, Abhiram Rishi Pratipati' and a link to 'Check our categories [here](#)'.

FAQ:

The screenshot shows the 'FAQ' page of the 'The Green Lamp' website. The page features a title 'Any Questions?' and a section titled 'Frequently Asked Questions'. It lists five questions with expandable answers:

1. Why Plants?
2. How do plants grow?
When plants have the right balance of water, air, sunlight and nutrients, their cells grow and divide, and the whole plant gets bigger and bigger. air pollutants.
3. How do I fertilize my plant?
4. What are the signs of a struggling plant?
5. Why isn't my plant growing anymore?

Empty Cart:**Cart with Items:**

Modified Quantity - Cart Items:

The Green Lamp

Shopping Cart (Count: 6)

Product Image	Product Name	Price / Unit	Quantity	Price
	Madagascar	\$5.96	1	\$5.96
	Ninebark	\$3.25	5	\$16.25

Subtotal: \$22.21

CLEAR CART PROCEED TO CHECKOUT

Similar Products

Crassula \$1.25

Signup:

The Green Lamp

All Products Search...

Sign Up

First Name: John

Last Name: Doe

Email Address: john.doe@gmail.com

Password:

Repeat Password:

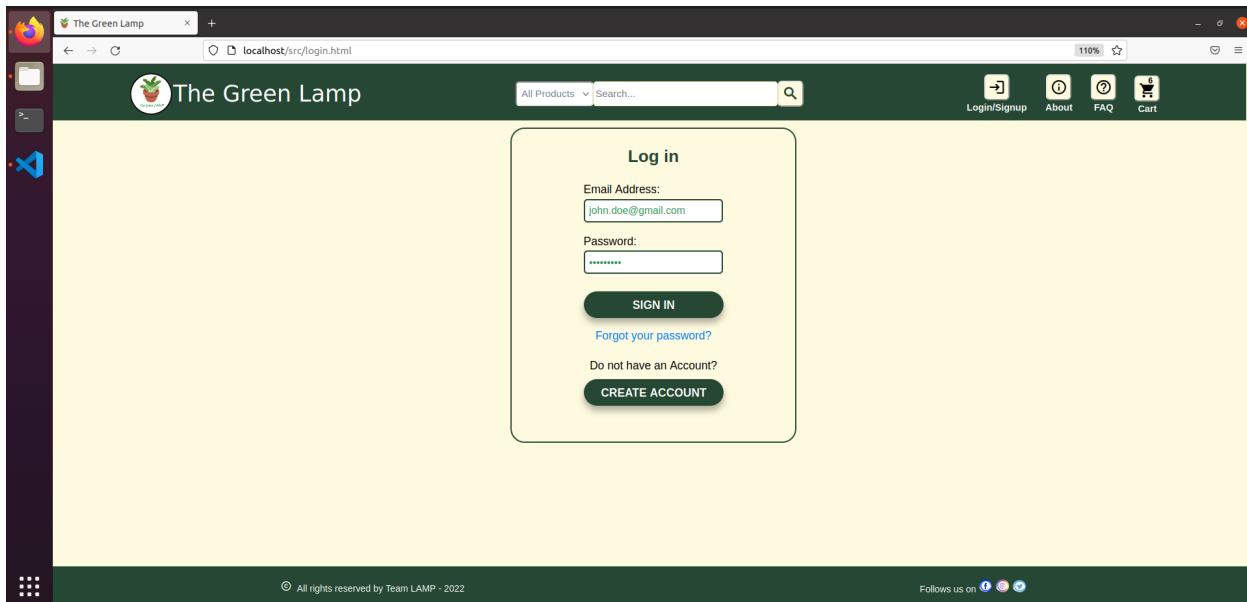
I agree to the [Terms & Conditions](#)

SIGN UP

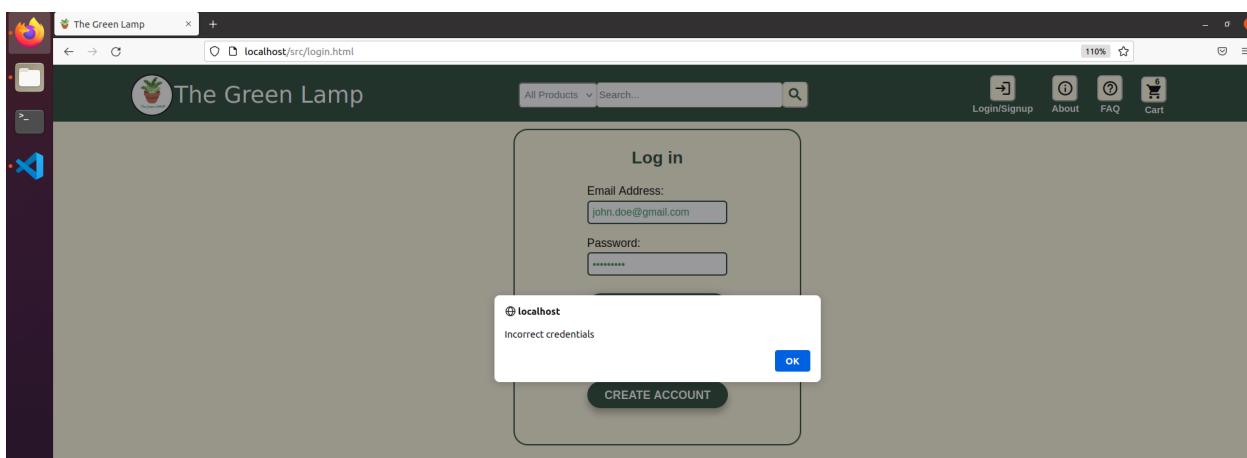
Already have an Account?

LOGIN

Login:

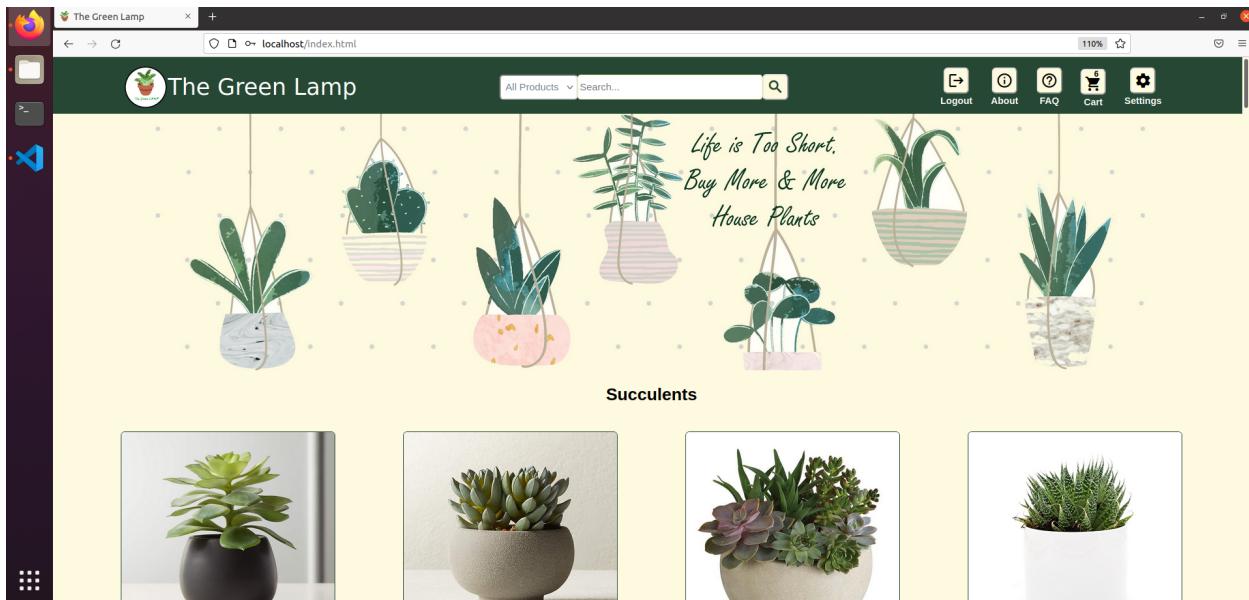


Login - Incorrect Credentials - alert

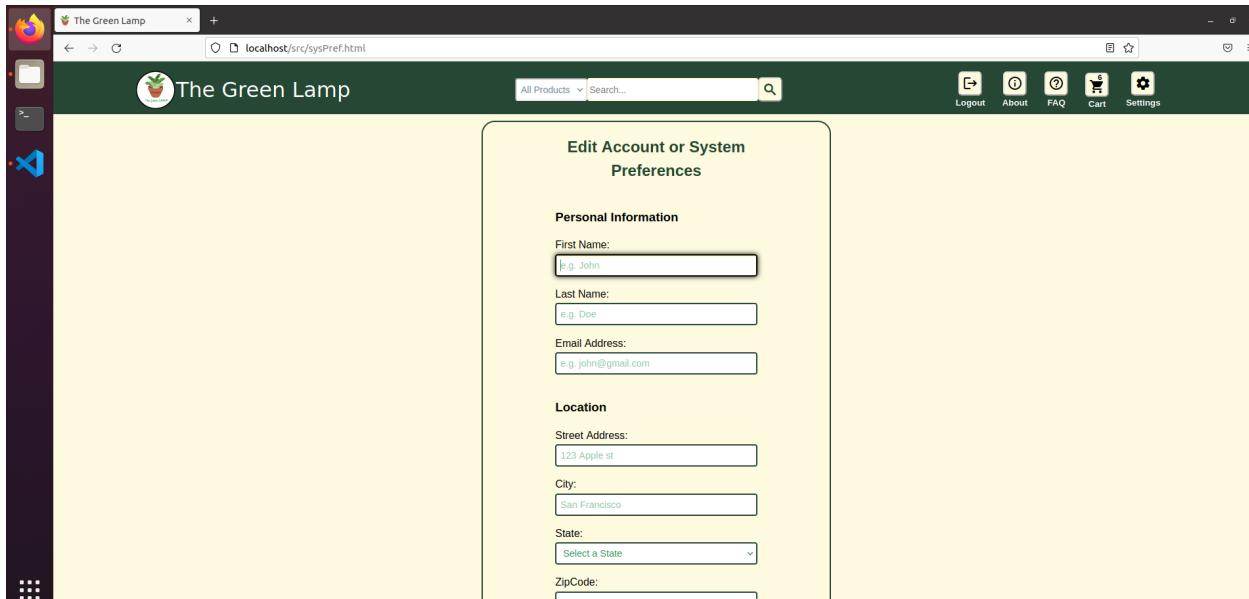


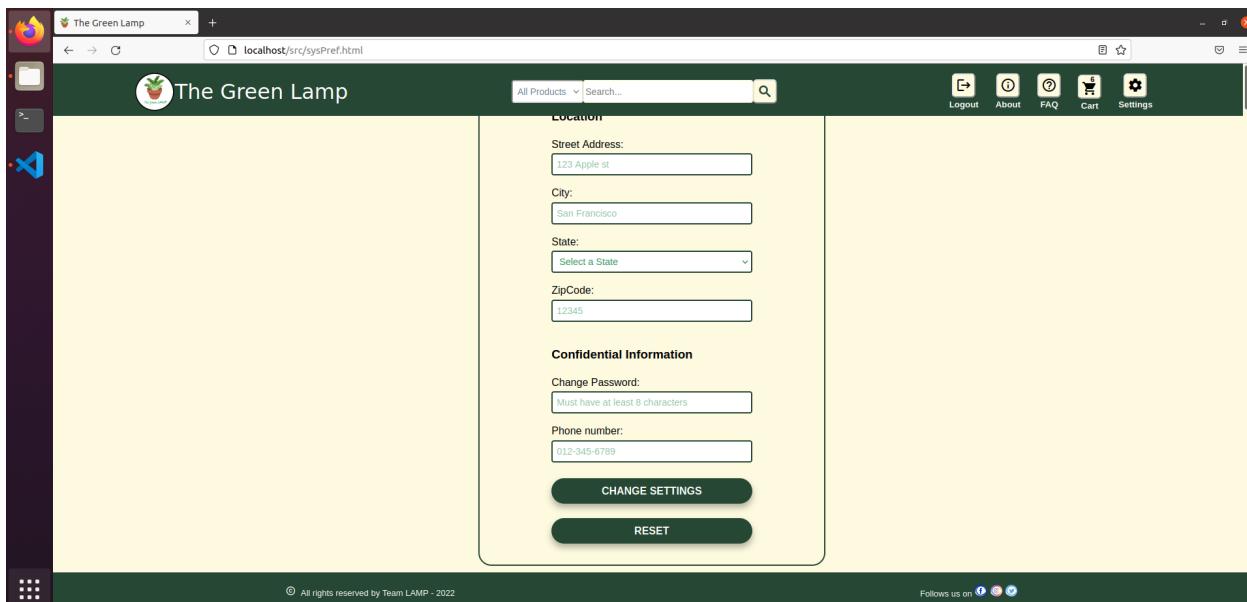
User Logged In:

Home Page:

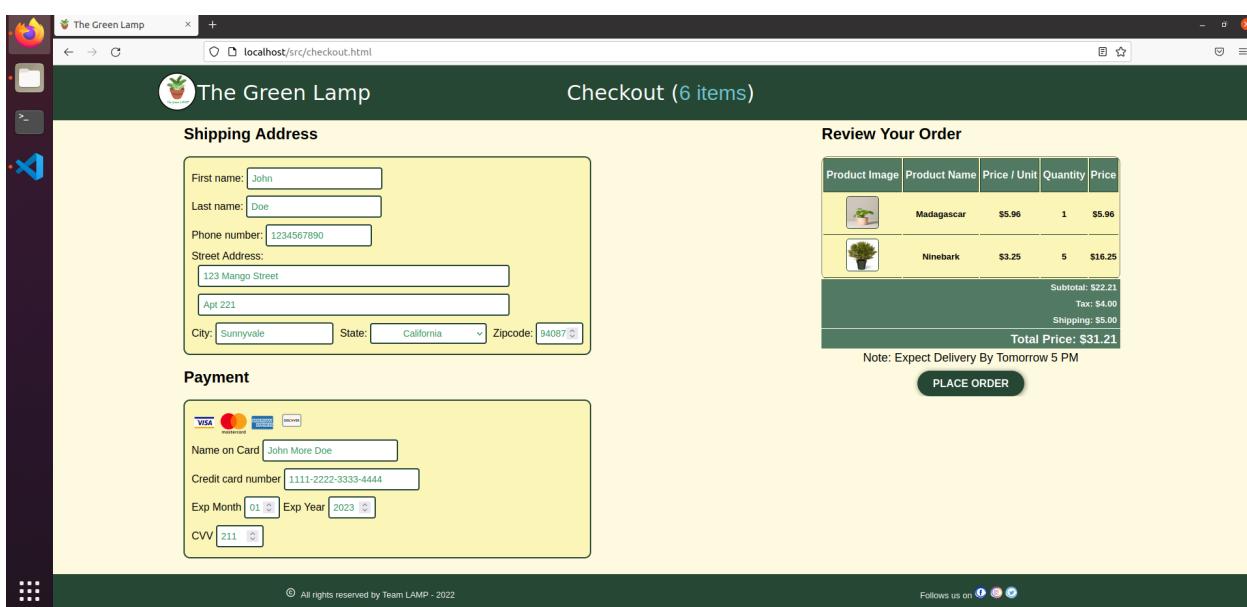


User Settings:

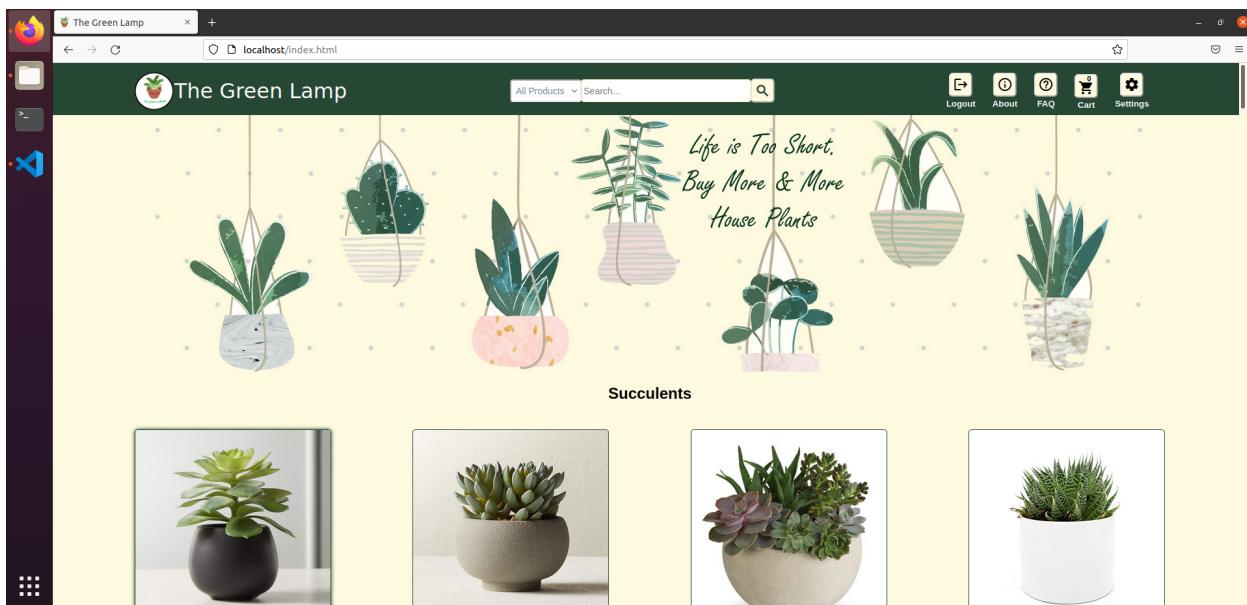




Checkout Page:



Order Placed



Logout Confirmation

