

Phase 1: Planning

Term 1

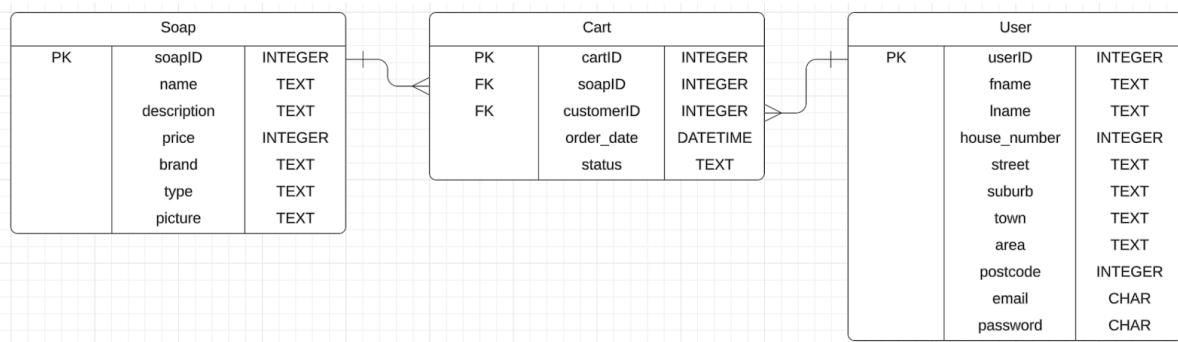
Concept

The purpose of the project is to create a convenient online shopping platform for browsing and purchasing a variety of soaps. The website will have soaps from many brands and different types of soaps to cater for different shopping needs.

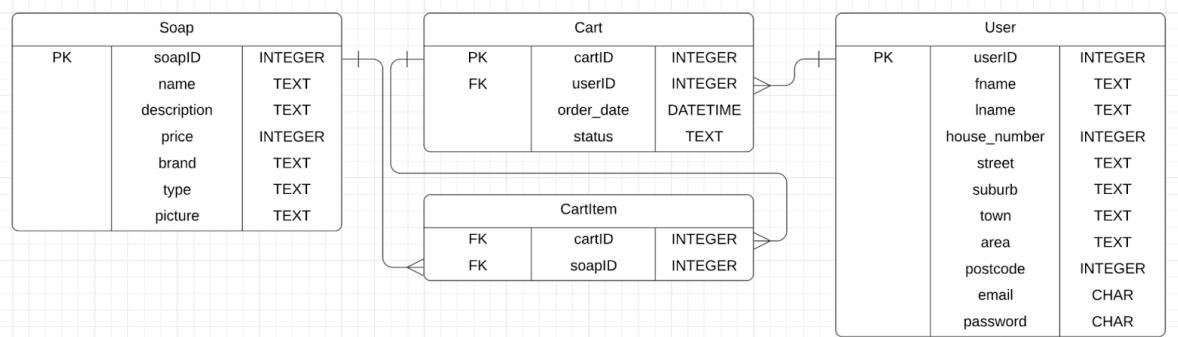
The project targets individuals of all ages and demographics who are interested in purchasing soap products online, including everyday consumers looking for soap for bathing, skincare, and hygiene, gift shoppers looking for special soaps for special occasions, eco-conscious consumers wanting organic soap, and soap enthusiasts who like artisanal soaps.

The functionality of the project has various features to support the usability of the project. Upon visiting the site, users can register an account or sign in with existing accounts to access features such as adding items to their cart and tracking/managing their orders. All the products on the website are categorised for easy browsing, where users can easily see descriptions, images, and pricing. Additionally, there will be a filtering function for the products based on price (low to high, high to low), type of soap, brand, or soap name. Once users have selected their desired soap products, they can add them to their cart for purchase. In the cart, the user can review and readjust quantities before purchasing. Following the completion of the order, users can track its status, from processing, packing, shipping/delivering and delivered. Users can also access their order history, and there is capacity for users to reorder items from there.

ER Diagram - Version 1



ER Diagram - Version 2



Aesthetics

Fonts

Titles: Rock Salt

All other text: Lora

E.g. **SOAPOTRUM** Your one stop soap shop

Justification: I chose fonts that enhance readability and complement the overall design aesthetic. Clear and legible fonts improve user comprehension and engagement with the content.

Colours

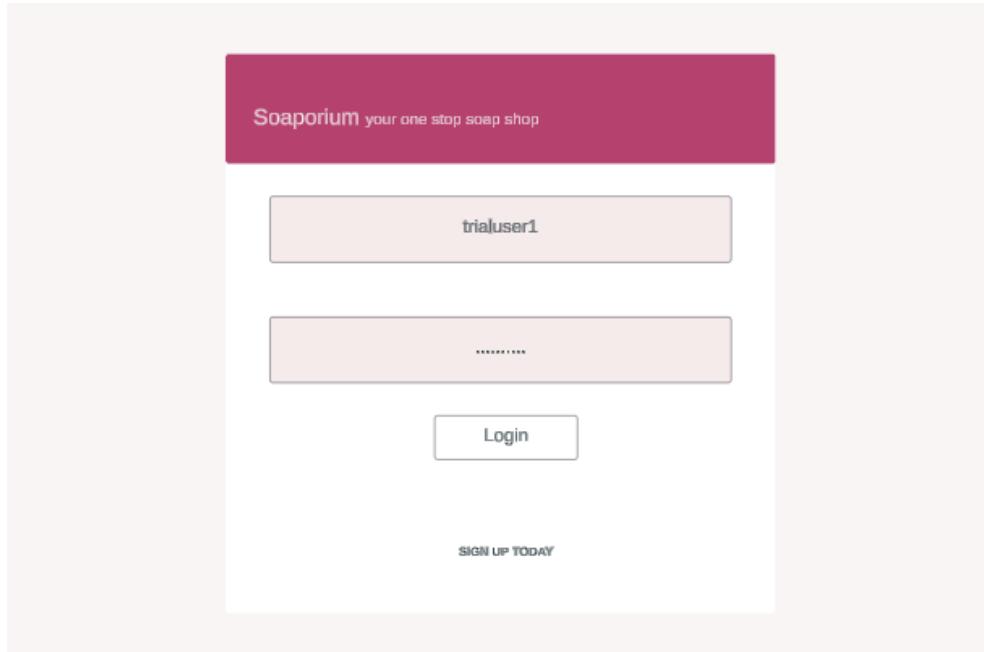


Justification: I selected a colour scheme that reflects the website's theme and identity, as pink, white, and blue are commonly associated with beauty, hygiene, and professionalism, respectively. Consistent use of colours creates visual harmony and helps users navigate the website more naturally.

Page Layout

Home page

Sign in/sign up page



User info page

Soaporium your one stop soap shop

Hi, Trial

Sale Tab 2 Tab 3

Search

Cart

User Information

Firstname: Trial
Update firstname

Lastname: User
Update lastname

Username: trialuser1
Change username

Password: *****
Change password

email: trialuser1@gmail.com
Change email

address: 123 Almacadalra Place, Suburb, Citytown, Country, 98772
Update address

Delete account

Cart page/previous orders page

Soaporium your one stop soap shop					Hi, Trial
Sale	Tab 2	Tab 3	Search	Cart	
Current cart	Name	Unit Price	Quantity	Total Price	
Pending orders	Specialesop Vanilla Soap	\$1	1	\$1	
Previous orders	Bestsop Lemongrass Soap	\$3	1	\$3	Continue to checkout
	Dove Pink Bar Soap	\$3	3	\$9	
	Bestsop Original Soap	\$4	1	\$4	
	Bestsop Lavender Soap	\$2	1	\$2	
	Bestsop Mens Soap	\$2	1	\$2	Currently shipping to 123 Abracadabra Place, Suburb, Citytown, Country, 9872
	Bestsop Limited Edition Soap	\$8	4	\$32	
	Bestsop Rose Soap	\$6	1	\$6	Change address
	Bestsop Ginger Soap	\$1	1	\$1	

Search results page

Soaporium your one stop soap shop					Login or sign up
Sale	Tab 2	Tab 3	Search	Cart	
Sort by: Relevance	dove				
 \$5	Dove Original Bar Soap	Add to Cart	 \$4	Dove Cucumber Bar Soap	Add to Cart
			 \$7	Dove Pink Bar Soap	3 +
 \$5	Dove Original Bar Soap	Add to Cart			

Justifications

I will prioritise content based on its importance and relevance to the user's goals, with the important content being more prominent and easily accessible, while less critical content can be secondary or hidden. For example, when searching a particular brand of soap, the user won't see anything from a different brand of soap. I will place the navigation bar at the top of the page, in that fixed position so users can expect where to find it. This ensures easy access to important sections of the website and improves overall user experience. I will make use of whitespace to create visual balance and improve readability. Adequate spacing between elements helps users focus on content and prevents visual clutter, enhancing user

engagement. I will position calls to actions prominently and within contextually relevant sections to increase the likelihood of user engagement.

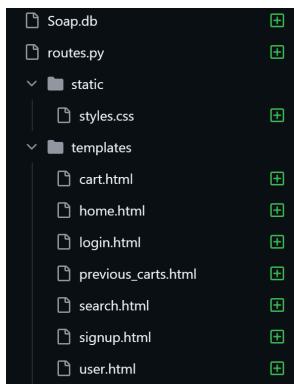
Phase 2: The Basics

Term 1 holidays

I designed my database in SQLite Studio, and got ChatGPT to fill it with dummy data. I also created a python file (routes.py), and wrote a home route, and search results page. I then created a home page and a search results page, with no css file at this stage. This was before I linked my project to GitHub unfortunately, so there's no screenshots/evidence for this.

Phase 3: More Functionality

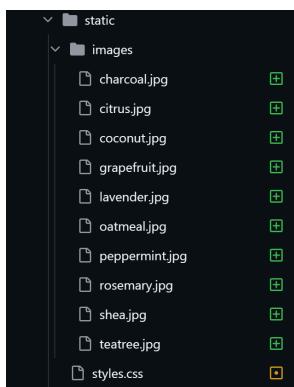
Term 2 week 1-5



Mostly coding in python for these 5ish weeks, including writing login, sign up, logout, userinfo, update address, current cart, add to cart, complete order, previous carts, and decrease quantity routes. I also made the corresponding templates for these routes, still no css at this stage (file was empty). Connected my project to GitHub here too.

Phase 4: Base Aesthetics

Term 2 week 6-7



I decided to do some styling and put a pin in the functionality, finally adding in images to my project, and mainly focusing on the search results and cart pages. I also did some global styling on the layout page such as the nav bar, and applied consistent fonts and colours to my website.

Phase 5: Templating and Aesthetics

Term 2 week 8-9 + holidays

Soap.db
routes.py
static
styles.css
templates
cart.html
home.html
layout.html
login.html
previous_carts.html
search.html
signup.html
user.html

I realised that I didn't have a base layout template, so I added that in, and I changed the layout of a lot of my templates for better UI. I also added in flash messages and a footer. I added a lot of css, especially layout-orientated additions like flexbox and grid. In my python, I set name and password length boundaries.

Phase 6: More Functionality

Term 2 holidays + term 3 week 1-4

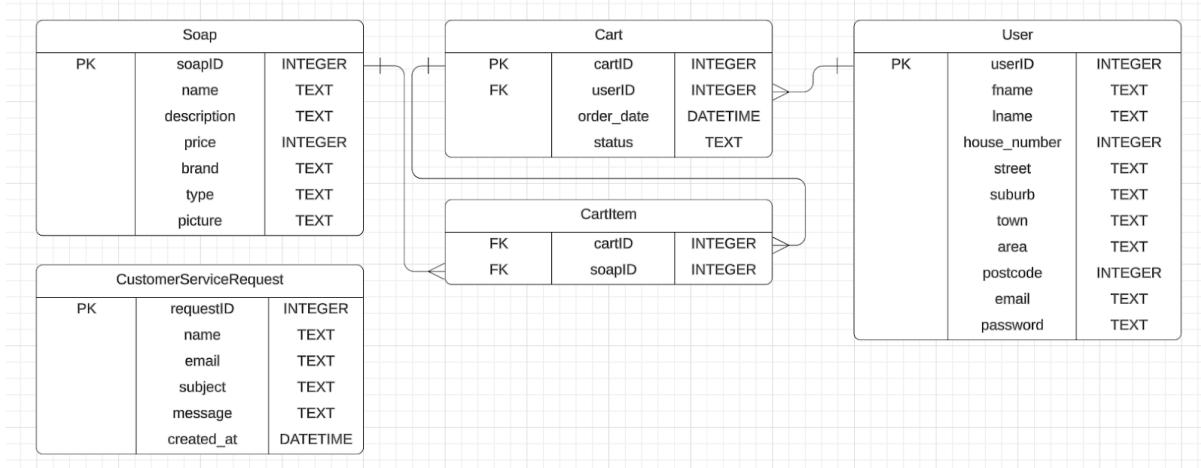
I wrote in password hashing for signing up and logging in, and made sure to hash the existing dummy passwords in the database. I also wrote in the confirm password functionality. FAQs and about pages were added and I wrote the routes for these.

Phase 6: More Functionality, Feedback & Testing

Term 3 week 4-5

I wrote a new route for customer service and created a template for that, and also had to add a table to my database to store these messages. I then wrote a versatile update info route, for all the user information, making the update address route redundant (so I deleted it), and created a template for this. I also created a custom 404 page. I then styled these pages.

Updated ER Diagram



Feedback

Overall, people really like the colour scheme and other aesthetics of my website. However, most people found that the duration and colour of the flash messages should be modified, and that my home page needs more aesthetic work.

Non-software

Overall, this user expressed a strong appreciation for the colour scheme and aesthetics of the website, noting that it was mostly easy to navigate. However, they were unsure where to click to view all soap products, and they found the use of red for successful flash messages confusing. They suggested that the colour of the flash messages should be modified to better reflect their success or failure. I agree with all the points of improvements this person suggested, and will colour the flash messages depending on their success/failure, and I already have plans to modify my home page to include all the soaps available.

Software

This individual also liked the aesthetics and layout of the website, particularly praising the "previous orders" feature. However, they echoed the concern regarding the red colour of successful flash messages, which they found confusing. Additionally, they suggested improvements for the homepage, recommending the inclusion of order ID and order date on the order contents page. They also noted that my code wasn't rounding price totals properly. As explained previously, I will work to change the colour of the flash messages accordingly. However, I disagree with the feedback regarding the inclusion of the order ID and date on the contents page, since it's not really relevant and is extra confusion.

Non-software:

From this user's perspective, the search bar in the navigation was well-received, and they appreciated the overall colour palette of the website. However, similar to others, they expressed confusion over the red colour of successful flash messages. They also mentioned that the homepage needs to include images to enhance its visual appeal and user engagement. As previously discussed, I will change the colours of the flash messages accordingly and redesign my home page for more engagement.

Software

The final user feedback focused on the aesthetics of the website, with particular praise for the "add to cart" buttons. However, they found the homepage to be unappealing and suggested improvements. Again, the confusion surrounding the red successful flash messages was highlighted, indicating a need for clearer visual cues to convey message status effectively. As previously discussed, I will change the colours of the flash messages accordingly and redesign my home page for more engagement.

Pre-Marking

Term 3 week 8

I had pre-marking with Mr Dunford on the 11th, so I have ~2 weeks to fix everything he outlined that was preventing me from getting an E. I need to do a lot more testing, write a versatile function for executing queries, fix my home page, and do my relevant implications.

Premarking Feedback

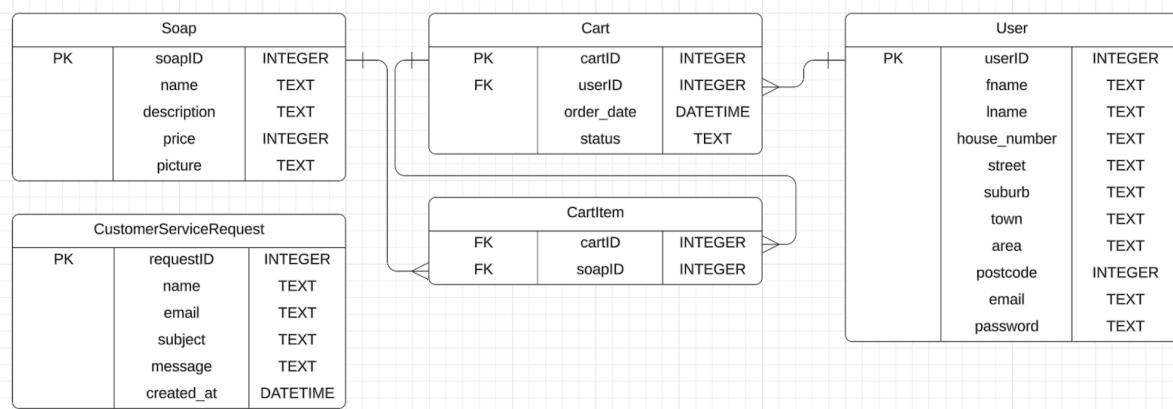
Programming Standard	Media (Web) Standard	Database Standard
<p>Wednesday, 11 September 2024 11:12 am</p> <p>Achieved ✓ Writing code for a program that performs a specified task ✓ Using advanced techniques in a suitable programming language ✓ Setting out the program code clearly and documenting the program with comments ✓ Testing and debugging the program to ensure that it works on a sample of expected cases</p> <p>Merit ✓ documenting the program with appropriate names and comments that describe code function and behaviour ✓ following common conventions for the chosen programming language PEP8 adhered to</p> <p>X testing and debugging the program effectively to ensure that it works on a sample of both expected cases and relevant boundary cases input field length limits - if length set to 3-20 characters, then test 2, and 3 - and 20 and 21</p> <p>Excellence X ensuring that the program is a well-structured, logical response to the specified task create some kind of query db(query, single=True): kind of function store logged in user id in session, then don't show the id in the user page route</p> <p>✓ making the program flexible and robust pretty solid, no obvious attack vectors</p> <p>X comprehensively testing and debugging the program Test all the things, all the ways.</p>	<p>Achieved ✓ using appropriate tools and techniques for the purpose and end users X applying appropriate data integrity and testing procedures DBMS specific tool used</p> <p>Test that correctly shows links go to right places, correct tables and columns in table get updated when options are selected, etc</p> <p>X using relevant conventions for the media type Pictures to come on the home page</p> <p>Change lists to grid on home page - nice grid cards used everywhere else. Layout is nice</p> <p>Flash messages - make them more visible, for longer, to help HCI I really like that when there is already a soap in the cart, the add button changes to a +/–</p> <p>X explaining relevant implications pick 2, relevant to the website - explain in a generic sense</p> <p>Merit ✓ asking information from testing procedures to improve the quality of the outcome More feedback from other users, and address it. Very good so far though</p> <p>X applying relevant conventions to improve the quality of the outcome Additions so that existing items in the cart already have a +/– instead of just another 'add' to cart</p> <p>Flash error messages with a timeout to disappear - nice extra feature (although messages need to stay on screen longer)</p> <p>X addressing relevant implications how did you address your 2 from above</p> <p>Excellence X iterative improvement throughout the design, development and testing process to produce a high-quality outcome Document the chunks of work, planning, basic site and db, css and design, etc... 1 para roughly for each</p> <p>✓ using efficient tools and techniques in the outcome's production</p>	<p>Achieved ✓ designing the structure of the data</p> <p>X using appropriate tools and advanced techniques to organise, query and present data for a purpose and end users query_db function as discussed in programming std notes</p> <p>X applying appropriate data integrity and testing procedures See web notes for this</p> <p>X explaining relevant implications 2 non-tangible things from the RI list</p> <p>Merit X using information from testing procedures to improve the quality of the database Document the updated ER diag with notes about what changed and why</p> <p>✓ structuring, organising and querying the data logically</p> <p>X addressing relevant implications</p> <p>Excellence X iterative improvement throughout the design, development and testing process see web notes</p> <p>✓ presenting the data effectively for the purpose and end users</p>

Phase 7: Improvements

Term 3 week 8-9

I wrote in a versatile function for executing database queries instead of repeating the same code, and implemented this in all my routes. I removed the userid from the link in the user info route by using session. I removed the brand and type columns from the Soap table since they weren't being used for anything. I added images for all the new soap additions. I added a credits page since none of the images belong to me. I finally styled the home page. I removed columns from my database tables that weren't being used for anything, such as 'brand' from Soap. I changed the flash messages to flash 3 times and then fade away after 7 seconds, and error messages are red, message messages are yellow, and success messages are green. I then did a lot of testing, including boundary testing. I do have some small styling issues like inconsistent buttons, and I realised my css has a lot of redundancy, so I need to fix that. I wrote my x4 relevant implications.

Updated ER Diagram

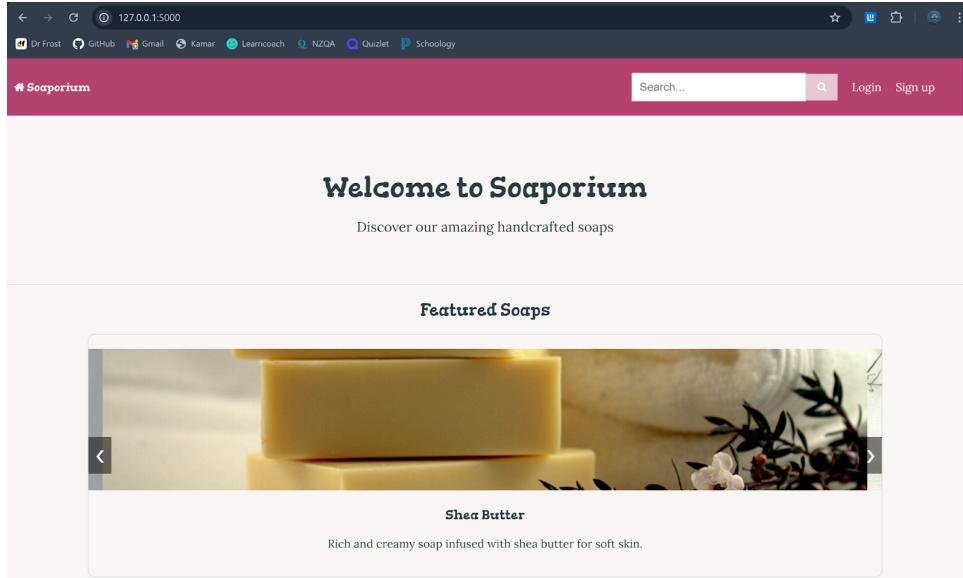


Testing

Test	Route	Input Data/Condition	Expected	Actual Output	Pass/Fail	Notes

Home page	/home	Home page launches	Home page launched as expected	Home page launched as expected	Pass	The home page should provide a well-structured layout and not just a list of links.
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Screenshot evidence:



Link

127.0.0.1:5000

Contacting	/customer_service	Expected data - at least 1 character in name, valid email, subject < 50 and message < 1000	Message successfully submitted to the database	Message was successfully submitted to the database	Pass	Implement validation to ensure the email format is correct before submission.
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Screenshot evidence:

← → ⌂ 127.0.0.1:5000/customer_service

Dr Frost GitHub Gmail Kamar Learncoach NZQA Quizlet Schoology

Seaporium Search... Login Sign up

Contact Us

Got any questions, queries, or concerns? Fill out the details below and we'll get back to you as soon as possible!

Your request has been submitted successfully.

Name

Email

Subject

Message

1000 characters remaining

Database

≡ Soap.db

SELECT * FROM CustomerServiceRequest

Schema Query Editor Auto Reload Find Other Tools...

	requestid	name	email	subject	message	created_at
	INTEGER PRIMARY KEY AUTOINCREMENT	TEXT NOT NULL	TEXT NOT NULL	TEXT NOT NULL	TEXT NOT NULL	TIMESTAMP DEFAULT
1	1	John	john@example.com	Issue with my order	Issue with my order	2024-08-26 07:12:16
2	2	Shine	shinejun2008@gmail...	I LOVE UR SOAP	ur soap is so soapy...	2024-08-30 08:33:32
3	3	Anisha	anisha.arya.chand@g...	soapy	soapy soap!	2024-09-04 20:35:24
4	4	Shine	Shine@burnside.scho...	I don't like this w...	I'm kidding. I love...	2024-09-04 23:33:45
5	8	John	john@example.com	Expected data trial	In the heart of a b...	2024-09-21 03:32:39
	+					

Link

127.0.0.1:5000/customer_service

Contacting	/customer_service	Upper boundary - 1000 character message	Message successfully submitted to the database	Message was successfully submitted to the database	Pass	Implement validation to ensure the email format is correct before submission.
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Screenshot evidence:

127.0.0.1:5000/customer_service

Scoporium

Search... Login Sign up

Contact Us

Got any questions, queries, or concerns? Fill out the details below and we'll get back to you as soon as possible!

Your request has been submitted successfully.

Name

Email

Subject

Message

 1000 characters remaining

Contacting	/customer_service	Lower boundary - 1 character message	Message successfully submitted to the database	Message was successfully submitted to the database	Pass	Implement validation to ensure the email format is correct before submission.
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Screenshot evidence:

127.0.0.1:5000/customer_service

Scoporium

Search... Login Sign up

Contact Us

Got any questions, queries, or concerns? Fill out the details below and we'll get back to you as soon as possible!

Your request has been submitted successfully.

Name

Email

Subject

Message

 1000 characters remaining

Contacting	/customer_service	Missing data - name not filled out	Fails and tells user all fields must be filled in	Failed and told me all fields	Pass	Ensure that all required fields are validated before
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				must be filled in		processing the form.
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Screenshot evidence:

The screenshot shows a contact form on a website. The URL in the address bar is 127.0.0.1:5000/customer_service. The page title is "Contact Us". The form fields are: Name (empty), Email (johnr@example.com), Subject (Missing name trial), and Message (a long text block). A validation message "Please fill out this field." is displayed next to the empty Email field. A "Send message" button is at the bottom.

Contacting	/customer_service	Email in invalid format	Fails and tells user to input a valid email	Failed and told me to input a valid email	Pass	Validation should guide users to enter an email in the correct format.
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Screenshot evidence:

The screenshot shows a contact form on a website. The URL in the address bar is 127.0.0.1:5000/customer_service. The page title is "Contact Us". The form fields are: Name (John), Email (i), Subject (Email format trial), and Message (a long text block). A validation message "Please include an '@' in the email address. 'i' is missing an '@'." is displayed next to the invalid Email field. A "Send message" button is at the bottom.

Contacting	/customer_service	Over upper boundary - entered a 1001-character message	Doesn't let user continue typing after 1000 limit	Didn't let me continue typing after limit reached	Pass	Maxlength enforcement works as intended; I also added a character counter for user feedback.
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Screenshot evidence:

Before submitting a message - character counter at 1000

The screenshot shows a web browser window with the URL 127.0.0.1:5000/customer_service. The page title is "Contact Us". The form fields are filled as follows: Name (John), Email (john@example.com), Subject (Too long trial). The message area contains several paragraphs of text. A character counter at the bottom left of the message area shows "1000 characters remaining". A "Send message" button is visible at the bottom right.

After typing in a message - character counter at 0, user cannot type anymore

The screenshot shows the same web browser window after the user has typed in the message area. The character counter at the bottom left now shows "0 characters remaining", indicating that the character limit has been reached. The message area itself is empty, reflecting the enforced character limit.

Signin g up	/signu p	Expected data - names 1-50 characters, valid email, passwords match	Successfully signs up and redirects to login page	Successfully signed me up and redirected me to login page	Pa ss	Ensure the registration process is intuitive and guides users to complete all fields.
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Screenshot evidence:

Before submission

The screenshot shows a web browser window with the URL `127.0.0.1:5000/signup`. The page has a pink header bar with the logo and navigation links. Below it is a white content area with a title "Create a New Account". There are five input fields: "First Name" (Zig), "Last Name" (Zag), "Email" (zigzag@example.com), "Password" (*****), and "Confirm Password" (*****). Below the fields is a pink "Sign up" button. At the bottom left, there's a link "Already have an account? [Login here](#)". The footer is dark with links "About us" and "Contact us".

After submission

The screenshot shows a web browser window with the URL `127.0.0.1:5000/login`. The page has a pink header bar with the logo and navigation links. Below it is a white content area with a title "Login". It has two input fields: "Email" and "Password", and a pink "Login" button. Below the button is a link "Don't have an account? [Sign up](#)". A green message box at the bottom says "Thanks for signing up! Please log in.". The footer is dark with links "About us", "Contact us", "FAQs", "Image credits", and "Soaporium © 2024".

Link

`127.0.0.1:5000/signup`

Database

Soap.db						
	SELECT * FROM User	Schema	Query Editor	Auto Reload	Find	Other Tools...
	userid INTEGER PRIMARY KEY AUTOINCREMENT	fname TEXT NOT NULL	lname TEXT NOT NULL	housenum INTEGER	street TEXT	suburb TEXT
5	Jocelyn	Carter		NULL	NULL	NULL
6	Arabella	Silver		NULL	NULL	NULL
7	Shine	Jun	385A	Harewood Road	Bishopdale	Christchurch
8	Anisha	Chand	50	Westpark Drive	Burnside	Christchurch
9	Aaron	Zheng	34	Coach Way	Farrington	Rolleston
10	Aayush	Chand	50	Westpark Drive	Burnside	Christchurch
11	John	Doe	NULL	NULL	NULL	NULL
12	Zig	Zag	NULL	NULL	NULL	NULL
13	18					

Signin g up	/signu p	Above upper boundary - 51 characters	Fails and tells user names must be 1-50 characters	Failed and told me names must be 1-50 characters	Pa ss	Length validation is functioning correctly for name inputs.
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Screenshot evidence:

The screenshot shows a web page with a header bar containing various links like Dr Frost, GitHub, Gmail, Kamar, Learncoach, NZQA, Quizlet, and Schoology. Below the header is a navigation bar with a search bar and 'Login' and 'Sign up' buttons. The main content area has a title 'Create a New Account'. It contains five input fields: 'First Name', 'Last Name', 'Email', 'Password', and 'Confirm Password'. Below the 'First Name' field is a red horizontal bar with the text 'Name must be between 1 and 50 characters.' At the bottom of the page, there is a link 'Already have an account? [Login here](#)'.

Signin g up	/signu p	Password too short - 4 characters	Fails and tells user passwords need to be 4-100 characters	Failed and told me passwords need to be 4-100 characters	Pa ss	Ensure that password guidelines are clearly communicated to users.
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Screenshot evidence:

The screenshot shows a web browser window with the URL `127.0.0.1:5000/signup`. The page title is "Create a New Account". There are seven input fields: First Name, Last Name, Email, Password, and Confirm Password. Below these is a "Sign up" button and a note that the password must be between 5 and 100 characters. A red error message box at the bottom states: "Password must be between 5 and 100 characters." At the bottom left, there is a link to "Login here".

Signin g up	/signu p	Email in invalid format	Fails and tells user to submit a valid email	Failed and told me to submit a valid email	Pa ss	Strong email validation should be implemented for better user experience.
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Screenshot evidence:

The screenshot shows a web browser window with the URL `127.0.0.1:5000/signup`. The page title is "Create a New Account". The input fields are: First Name (Jane), Last Name (Doe), Email (jane), Password (*****), and Confirm Password (*****). An error message box appears next to the Email field: "Please include an '@' in the email address. 'jane' is missing an '@'." At the bottom left, there is a link to "Login here".

Signin g up	/signu p	Inputted email already in use	Fails and tells user email is already in use	Failed and told me the email is already in use	Pa ss	Provide a suggestion for users to recover their account if the email is already registered.
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Screenshot evidence:

The screenshot shows a web browser window with the URL 127.0.0.1:5000/signup. The page title is "Create a New Account". There are input fields for First Name, Last Name, Email (containing "jane@example.com"), Password (containing "*****"), and Confirm Password. A "Sign up" button is present. Below the button, a red error message box contains the text "Email unavailable. Please choose another email or login." At the bottom left, there is a link "Already have an account? [Login here](#)".

Signin g up	/signu p	No match password	Fails and tells user passwords don't match	Failed and told me the passwords don't match	Pa ss	Clear error messaging helps users understand the issue.
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Screenshot evidence:

The screenshot shows a web browser window with the URL 127.0.0.1:5000/signup. The page title is "Create a New Account". There are input fields for First Name, Last Name, Email (containing "jane@example.com"), Password (containing "*****"), and Confirm Password. A "Sign up" button is present. Below the button, a red error message box contains the text "Passwords do not match. Please try again." At the bottom left, there is a link "Already have an account? [Login here](#)".

Signing up	/signu p	Missing data	Fails and tells user to fill in all fields	Failed and told me to fill in all fields	Pa ss	Ensure users are prompted to complete all required fields before submission.
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Screenshot evidence:

127.0.0.1:5000/signup

Create a New Account

First Name	<input type="text"/>
Last Name	<input type="text"/> ! Please fill out this field.
Email	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
Sign up	

Already have an account? [Login here](#)

About us
Contact us

Logging in	/login	Expected data - valid email and password	Successfully logs in and redirects to home page	Successfully logged in and redirected to home page	Pass	The login process should maintain user sessions securely.
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Screenshot evidence:

Before logging in

127.0.0.1:5000/login

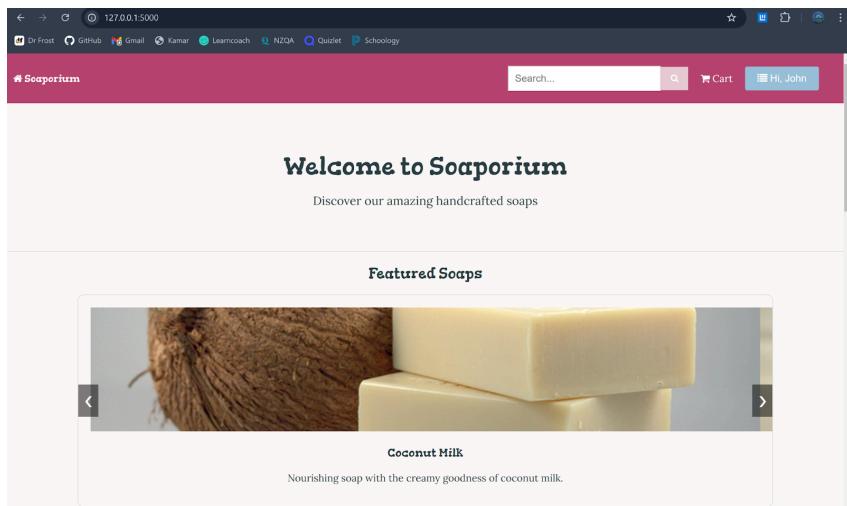
Login

Email	<input type="text" value="john@example.com"/>
Password	<input type="password" value="*****"/>
Login	

Don't have an account? [Sign up](#)

About us
Contact us
FAQs
Image credits
Soaporium © 2024

After logging in

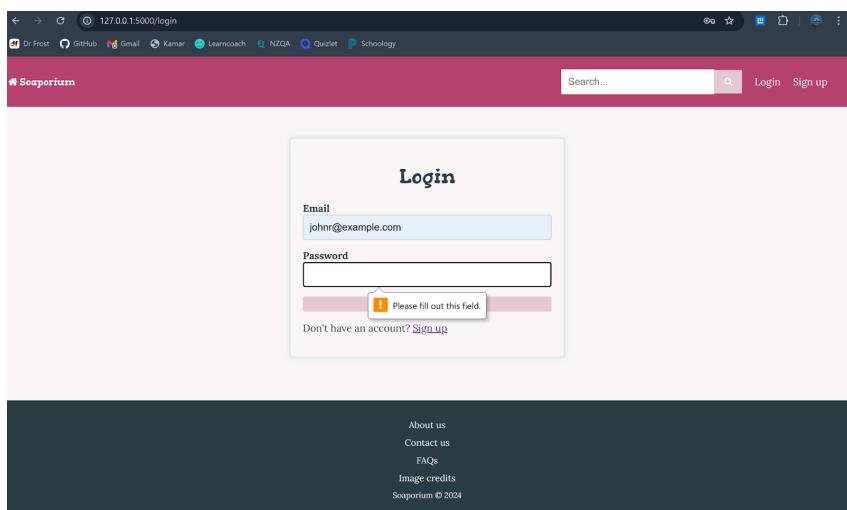


Link

127.0.0.1:5000/login

Logging in	/login	Only email filled out	Fails and tells user to fill out all fields	Failed and told me to fill out all fields	Pass	All fields should be validated to ensure a complete login attempt.
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Screenshot evidence:



Logging in	/login	Wrong password	Fails and tells user email or password is incorrect	Failed and told me email or password is incorrect	Pass	Ensure that error messages are clear to help users identify their mistake.
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Screenshot evidence:

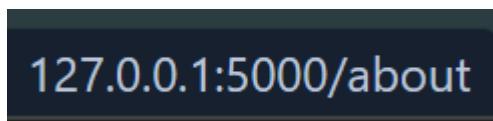
The screenshot shows a browser window with the URL 127.0.0.1:5000/login. The page has a pink header with the Soaporium logo and navigation links. A central modal window titled "Login" contains fields for "Email" (johnn@example.com) and "Password". Below the fields is a "Login" button. Underneath the button, there is a link "Don't have an account? [Sign up](#)". At the bottom of the modal, a red box highlights the error message "Incorrect email or password".

About us	/about	About page launches	About page launched successfully	About page launched successfully	Pass	The About Us page should effectively convey the purpose and values of the site.
----------	--------	---------------------	----------------------------------	----------------------------------	------	---

Screenshot evidence:

The screenshot shows a browser window with the URL 127.0.0.1:5000/about. The page has a pink header with the Soaporium logo and navigation links. The main content area is titled "About us". It contains a welcome message, a history of the company, and a contact invitation. At the bottom, there is a signature from "Sincerely, The Soaporium Team". A dark footer bar at the bottom contains links for "About us", "Contact us", "FAQs", and "Image credits", along with the copyright notice "Soaporium © 2024".

Link



FAQs	/FAQs	FAQs page launches	FAQs page launched successfully	FAQs page launched successfully	Pass	FAQs should be informative and easy to navigate for user convenience.
------	-------	--------------------	---------------------------------	---------------------------------	------	---

Screenshot evidence:

Frequently Asked Questions

Q: Is this a real soap merchandiser?
A: Nope! This is a school project.

Q: What types of soap do you offer?
A: We offer a wide range of soaps, including bar soaps, liquid soaps, and specialty soaps for different skin types.

Q: How can I contact customer support?
A: You can reach out to us via the [contact form](#) on our website or email us at support@soaporium.com.

Q: What is your return policy?
A: Since this is a school project, there are no real returns. But in a real scenario, we would offer a 30-day return policy.

Link

127.0.0.1:5000/faqs

Image credits	/credit s	Image credits page launches	Links launch to image's page of origin in new tab	Links launched to image's page of origin in new tab in new tab	Pa ss	Ensure that all image credits are properly linked to their sources.
---------------	-----------	-----------------------------	---	--	-------	---

Screenshot evidence:

Image Credits

Disclaimer: none of the images on this site belong to me. If one or more of the images used on this site belongs to you, and you'd like your image(s) taken down, please [contact](#) us.

Lavender: The Scented Soap Deli - Lavender Soap	Citrus Burst: The Scented Soap Deli - Lemon Sorbet Soap	Oatmeal & Honey: Holton Homestead - Oatmeal Honey Scrub Bar	Tea Tree Oil: The Scented Soap Deli - Lemon Tea Tree Soap
Coconut Milk: The Scented Soap Deli - Coconut Vanilla Soap	Peppermint Twist: Lovely Greens - Natural Peppermint Soap Recipe	Shea Butter: The Scented Soap Deli - Manuka Honey Shea Butter Soap	Charcoal Detox: A Bubbly Mess - Charcoal Soap
Rosemary Mint: tellervo on YouTube - Homemade rosemary gel soap	Grapefruit Zest: tellervo on YouTube - Fresh grapefruit & sea moss gel soap	Chamomile Aloe: Lovely Greens - Natural Chamomile Soap Recipe	Avocado & Cucumber: tellervo on YouTube - Homemade fresh avocado soap
Blackberry Sage: Botanicus - Patchouli Blackberry Soap	Jasmine Blossom: Sam's Organic - Organic Aloe Vera Jasmine Anti-Blemish Bath Bar	Cedarwood & Sage: Flora Goods - Cedar + Sage Soap	Exotic Mango: The Scented Soap Deli - Mango Butter Bar Soap

Link

127.0.0.1:5000/credits

Search	/search	Search term provided ('Lavender' will have 2 results)	2 relevant matches are brought up	2 relevant matches were brought up	Pass	Search functionality should be efficient and return relevant results quickly.
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Screenshot evidence:

Before searching

Search Results

Sort: lavender

Lavender: A soothing soap with the calming scent of lavender. \$5.99 Add to Cart

Citrus Burst: Invigorating soap with a burst of citrus fragrance. \$4.49 Add to Cart

Oatmeal & Honey: Gently exfoliating soap enriched with honey and oatmeal. \$6.99 Add to Cart

After searching

Search Results

Sort: lavender

Lavender: A soothing soap with the calming scent of lavender. \$5.99 Add to Cart

Lavender Mint: A refreshing soap with lavender and mint for a cooling effect. \$6.89 Add to Cart

Link

127.0.0.1:5000/search?search_term=Lavender

Search	/search	Search term provided ('abc' will have no results)	No results, with message no results found	No results were brought up, with no results found	Pass	A user-friendly message should guide users in their search efforts.
--------	---------	---	---	---	------	---

Screenshot evidence:

Before searching

The screenshot shows a web browser window for the URL 127.0.0.1:5000/search?search_term=. The page title is "Search Results". At the top, there is a search bar with placeholder text "Search..." and a magnifying glass icon. To the right of the search bar is a "Cart" button and a "Hi, John" button. Below the search bar, there is a "Sort" button with a dropdown arrow, followed by a "Reset sort" link. A "Search..." input field is present. The main content area displays three product cards:

- Lavender**: A soothing soap with the calming scent of lavender. Price: \$5.99. Add to Cart button.
- Citrus Burst**: Invigorating soap with a burst of citrus fragrance. Price: \$4.49. Quantity selector (1).
- Oatmeal & Honey**: Gently exfoliating soap enriched with honey and oatmeal. Price: \$6.99. Add to Cart button.

After searching

The screenshot shows a web browser window for the URL 127.0.0.1:5000/search?search_term=abc. The page title is "Search Results". At the top, there is a search bar with placeholder text "Search..." and a magnifying glass icon. To the right of the search bar are "Login" and "Sign up" buttons. Below the search bar, there is a "Sort" button with a dropdown arrow, followed by a "Reset sort" link. A "Search..." input field is present. The main content area displays the message "No results found". Below this message, there is a "Back to Home" link. At the bottom of the page, there is a dark footer bar with links to "About us", "Contact us", "FAQs", "Image credits", and "Soaporum © 2024".

Search	/search	No search term	All soaps are displayed	All soaps were displayed	Pass	Displaying all items when no search term is provided should be user-friendly.
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Screenshot evidence:

Before searching

Screenshot of a web browser showing a search results page for "Search Results". The page has a header with a search bar and navigation links for "Login" and "Sign up". Below the header, there is a "Sort" dropdown and a "Reset sort" link. The main content area displays three product cards:

- Lavender**: A soothing soap with the calming scent of lavender. Price: \$5.99. Add to Cart button.
- Citrus Burst**: Invigorating soap with a burst of citrus fragrance. Price: \$4.49. Add to Cart button.
- Oatmeal & Honey**: Gently exfoliating soap enriched with honey and oatmeal. Price: \$6.99. Add to Cart button.

After searching

Screenshot of a web browser showing a search results page for "Search Results". The layout is identical to the first screenshot, displaying the same three product cards: Lavender, Citrus Burst, and Oatmeal & Honey. The prices and "Add to Cart" buttons are also present.

Search	/search	Over upper boundary - 51 characters	User cannot type more than 50 characters	I couldn't type more than 50 characters	Pass	Users should not be able to crash the program by inputting excessively
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Screenshot evidence:

Soaporium

Search... Login Sign up

Search Results

Sort: Soaporium: The best handmade soaps. Quality you can trust.

Reset sort

		
Lavender A soothing soap with the calming scent of lavender. \$5.99 Add to Cart	Citrus Burst Invigorating soap with a burst of citrus fragrance. \$4.49 Add to Cart	Oatmeal & Honey Gently exfoliating soap enriched with honey and oatmeal. \$6.99 Add to Cart

Search w sort	/search	Sorted \$-\$\$\$\$	Lowest price to highest price soaps displayed	Lowest to highest soaps displayed	Pass	Sorting options should be intuitive and easily accessible to users.
---------------	---------	--------------------	---	-----------------------------------	------	---

Screenshot evidence:

Before sorting

127.0.0.1:5000/search?search_term=

Soaporium

Search... Login Sign up

Search Results

Sort: Search...

Reset sort

		
Lavender A soothing soap with the calming scent of lavender. \$5.99 Add to Cart	Citrus Burst Invigorating soap with a burst of citrus fragrance. \$4.49 Add to Cart	Oatmeal & Honey Gently exfoliating soap enriched with honey and oatmeal. \$6.99 Add to Cart

After sorting

127.0.0.1:5000/search?search_term=&sort=ascending

Soaporium

Search... Login Sign up

Search Results

Sort: Search...

Reset sort

		
Citrus Burst Invigorating soap with a burst of citrus fragrance. \$4.49 Add to Cart	Grapefruit Zest Energizing soap with the zesty fragrance of grapefruit. \$4.99 Add to Cart	Orange Blossom Zesty soap with the uplifting scent of orange blossoms. \$4.99 Add to Cart

Link

127.0.0.1:5000/search?search_term=&sort=ascending

Search w sort	/search	Sorted \$\$\$-\$	Highest price to lowest price soaps displayed	Highest to lowest soaps displayed	Pass	Sorting should allow users to quickly find products within their desired price range.
---------------	---------	------------------	---	-----------------------------------	------	---

Screenshot evidence:

Before sorting

Search Results

Lavender

A soothing soap with the calming scent of lavender.

\$5.99

Add to Cart

Citrus Burst

Invigorating soap with a burst of citrus fragrance.

\$4.49

Add to Cart

Oatmeal & Honey

Gently exfoliating soap enriched with honey and oatmeal.

\$6.99

Add to Cart

After sorting

Search Results

Shea Butter

Rich and creamy soap infused with shea butter for soft skin.

\$9.99

Add to Cart

Coconut Milk

Nourishing soap with the creamy goodness of coconut milk.

\$8.49

Add to Cart

Rose Petal

Gentle soap infused with the romantic fragrance of rose petals.

\$8.49

Add to Cart

Link

127.0.0.1:5000/search?search_term=&sort=descending

Search w sort	/search	Sorted alphabetically	A-Z soaps displayed	A-Z soaps displayed	Pass	Alphabetical sorting enhances product discoverability.
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Screenshot evidence:

Before sorting

After sorting

Link

127.0.0.1:5000/search?search_term=&sort=alpha

Adding to cart	/add_to_cart	Not logged in	Redirects to login page with message to log in	Redirected me to login before adding to cart	Pass	Ensure users understand that they need to log in to add items to their cart.
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Screenshot evidence:

Before trying to add

The screenshot shows a web browser window for the URL 127.0.0.1:5000/search?search_term=. The title bar says "Seaporium". The main content area is titled "Search Results". It features a search bar with placeholder "Search...". Below it is a "Sort" dropdown and a "Reset sort" link. Three soap products are displayed in cards:

- Lavender**: A soothing soap with the calming scent of lavender. Price: \$5.99. Add to Cart button.
- Citrus Burst**: Invigorating soap with a burst of citrus fragrance. Price: \$4.49. Add to Cart button.
- Oatmeal & Honey**: Gently exfoliating soap enriched with honey and oatmeal. Price: \$6.99. Add to Cart button.

After trying to add

The screenshot shows a web browser window for the URL 127.0.0.1:5000/login. The title bar says "Seaporium". The main content area is titled "Login". It has fields for "Email" (john@example.com) and "Password" (redacted). A "Login" button is below them. A link "Don't have an account? [Sign up](#)" is next. A yellow box at the bottom right says "Please log in to add items to your cart". At the bottom of the page, there's a dark footer with links: "About us", "Contact us", "FAQs", and "Image credits".

Adding to cart	/add_to_cart	Logged in, none of that soap in cart	Soap added to cart	Soap added to cart	Pass	Cart functionality should be seamless and efficient for user experience.
----------------	--------------	--------------------------------------	--------------------	--------------------	------	--

Screenshot evidence:

Before adding

Screenshot of the Soaperium search results page:

Search Results

Sort: Search...

Reset sort

		
Lavender A soothing soap with the calming scent of lavender. \$5.99 <input type="button" value="Add to Cart"/>	Citrus Burst Invigorating soap with a burst of citrus fragrance. \$4.49 <input type="button" value="Add to Cart"/>	Oatmeal & Honey Gently exfoliating soap enriched with honey and oatmeal. \$6.99 <input type="button" value="Add to Cart"/>

After adding

Screenshot of the Soaperium search results page after adding an item to the cart:

Search Results

Sort: Search...

Reset sort

		
Lavender A soothing soap with the calming scent of lavender. \$5.99 <input type="button" value="Add to Cart"/>	Citrus Burst Invigorating soap with a burst of citrus fragrance. \$4.49 <input type="button" value="Add to Cart"/>	Oatmeal & Honey Gently exfoliating soap enriched with honey and oatmeal. \$6.99 <input type="button" value="Add to Cart"/>

A green message bar at the bottom indicates: Citrus Burst added to cart.

Link

```
► <form action="/decrease_quantity/2" method="POST">⑩</form>
  <span class="quantity-display">1</span>
► <form action="/add_to_cart" method="POST">⑩</form>
```

Database

Query History

```
1 SELECT Soap.name AS soap_name, Soap.price AS unit_price, CartItem.quantity AS soap_quantity
2 FROM CartItem JOIN Soap ON Soap.soapid = CartItem.soapid WHERE CartItem.cartid = 35;
```

soap_name	unit_price	soap_quantity
Citrus Burst	4.49	1

Adding to cart	/add_to_cart	Logged in, 1+ of that soap in cart	+/- buttons with quantity displayed	Soap quantity accurately displayed and added to cart	Pass	Users should easily manage their cart items and quantities.
----------------	--------------	------------------------------------	-------------------------------------	--	------	---

Screenshot evidence:

Before adding

Search Results

Product	Description	Price	Quantity	Action
Lavender	A soothing soap with the calming scent of lavender.	\$5.99	1	Add to Cart
Citrus Burst	Invigorating soap with a burst of citrus fragrance.	\$4.49	1	Add to Cart
Oatmeal & Honey	Gently exfoliating soap enriched with honey and oatmeal.	\$6.99	1	Add to Cart

After adding

Search Results

Product	Description	Price	Quantity	Action
Lavender	A soothing soap with the calming scent of lavender.	\$5.99	1	Add to Cart
Citrus Burst	Invigorating soap with a burst of citrus fragrance.	\$4.49	2	Add to Cart
Oatmeal & Honey	Gently exfoliating soap enriched with honey and oatmeal.	\$6.99	1	Add to Cart

Database

Query History

```
1 SELECT Soap.name AS soap_name, Soap.price AS unit_price, CartItem.quantity AS soap_quantity
2 FROM CartItem JOIN Soap ON Soap.soapid = CartItem.soapid WHERE CartItem.cartid = 35;
```

Grid view Form view

Total rows loaded: 1

	soap_name	unit_price	soap_quantity
1	Citrus Burst	4.49	2

Viewing contents of cart	/view_current_cart	Full cart	Correct items and prices displayed	Correct items and prices displayed	Pass	The cart overview should clearly display all items and their corresponding prices.
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Screenshot evidence:

127.0.0.1:5000/view_current_cart

My Cart

Oatmeal & Honey

Quantity: 2
Unit Price: \$6.99
Total Price: \$13.98

- +

Coconut Milk

Quantity: 2
Unit Price: \$8.49
Total Price: \$16.98

- +

Total Price: \$30.96

Complete order | View previous carts | Back to home

About us
Contact us

Database

Query History

```
1 SELECT Soap.name AS soap_name, Soap.price AS unit_price, CartItem.quantity AS soap_quantity
2 FROM CartItem JOIN Soap ON Soap.soapid = CartItem.soapid WHERE CartItem.cartid = 35;
```

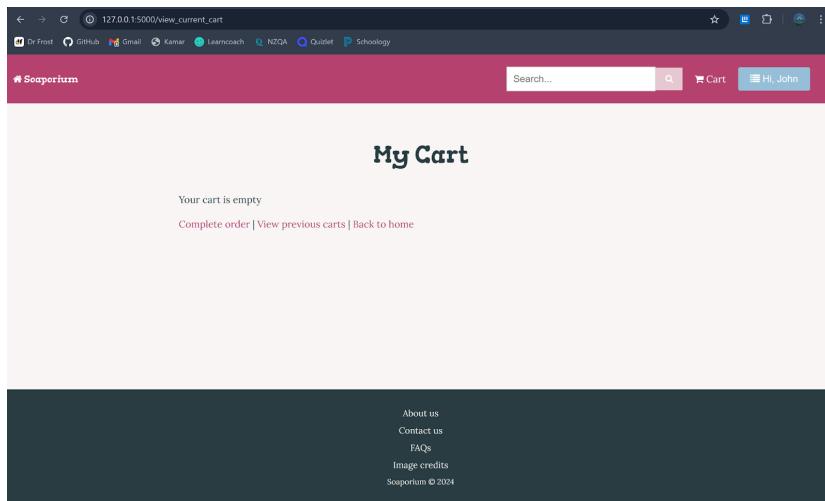
Grid view Form view

Total rows loaded: 2

soap_name	unit_price	soap_quantity
1 Oatmeal & Honey	6.99	2
2 Coconut Milk	8.49	2

Viewing contents of cart	/view_current_cart	Empty cart	No items listed, message says cart is empty	No items listed, message says cart is empty	Pass	Provide users with clear information when their cart is empty.
--------------------------	--------------------	------------	---	---	------	--

Screenshot evidence:



Link

`127.0.0.1:5000/view_current_cart`

Database

Query History

```
1 SELECT * FROM CartItem WHERE cartid = 35;
```

Grid view	Form view	
	Total rows loaded: 0	
soapid	cartid	quantity

Removing one from cart	/decrease_quantity	1+ in cart	Quantity decreases correctly	Quantity decreased correctly	Pass	Users should see real-time updates to their cart quantities.
------------------------	--------------------	------------	------------------------------	------------------------------	------	--

Screenshot evidence:

Before decreasing

The screenshot shows a web browser window with the URL `127.0.0.1:5000/view_current_cart`. The page title is "My Cart". Inside the cart, there are two items: "Oatmeal & Honey" and "Coconut Milk", both listed with a quantity of 2. Each item has a "Remove" (-) button and an "Add" (+) button. At the bottom of the cart section, it says "Total Price: \$30.96". Below the cart, there are links for "Complete order" and "View previous carts". The footer of the page includes links for "About us" and "Contact us".

After decreasing

My Cart

Oatmeal & Honey
Quantity: 1
Unit Price: \$6.99
Total Price: \$6.99

Coconut Milk
Quantity: 2
Unit Price: \$8.49
Total Price: \$16.98

Total Price: \$23.97

Complete order | View previous carts | Back to home

Link

```
▶ <form action="/decrease_quantity/2" method="POST"> ⏺ </form>
▶ <form action="/add_to_cart" method="POST"> ⏺ </form> == $0
```

Database

soap_name	soap_quantity
1 Coconut Milk	2
2 Oatmeal & Honey	1

Completing order	/complete_order	Full order	Completes order and redirects user to new open cart	Completed order and redirected me to new open cart	Pass	Order completion should be smooth, guiding users through final steps.
------------------	-----------------	------------	---	--	------	---

Screenshot evidence:

Before completing

127.0.0.1:5000/view_current_cart

Dr Frost GitHub Gmail Kamar Learncoach NZQA Quizlet Schoology

Hi, John

My Cart

Wildberry & Vanilla

Quantity: 2
Unit Price: \$5.69
Total Price: \$11.38

- +

Coconut Lime

Quantity: 1
Unit Price: \$5.89
Total Price: \$5.89

- +

Grapefruit Zest

Quantity: 1
Unit Price: \$4.99
Total Price: \$4.99

- +

Total Price: \$22.26

Complete order | View previous carts | Back to home

After completing

127.0.0.1:5000/view_current_cart

Dr Frost GitHub Gmail Kamar Learncoach NZQA Quizlet Schoology

Hi, John

Order completed! To view the contents of this order, please explore your previous carts

My Cart

Your cart is empty

Complete order | View previous carts | Back to home

About us
Contact us
FAQs
Image credits
Soaporum © 2024

Link

```
127.0.0.1:5000/complete_order/35
```

Database

Query History

```
1 SELECT status FROM Cart WHERE userid = 1 AND cartid = 33;
```

status
1 completed

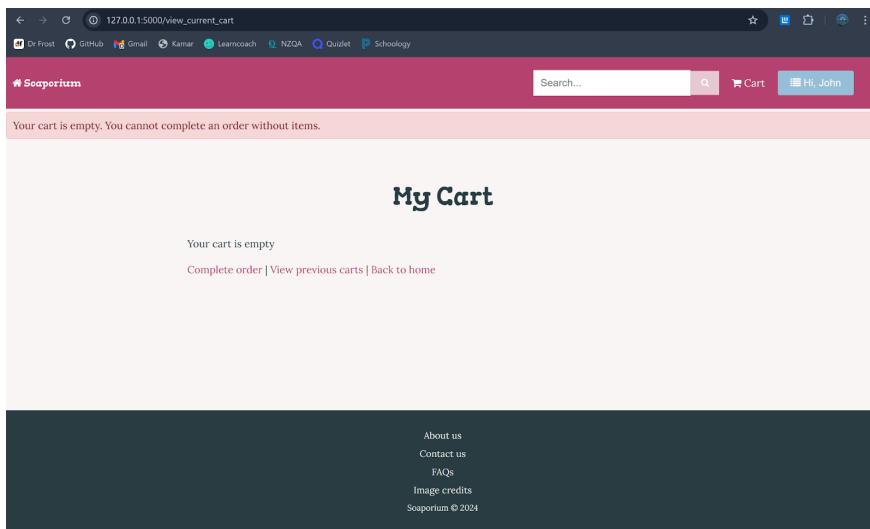
Completing order	/complete_order	Empty order	Fails and tells user they cannot complete an empty order	Failed and told me I cannot complete an empty order	Pass	Preventing empty orders enhances user experience and reduces errors.
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Screenshot evidence:

Before completing

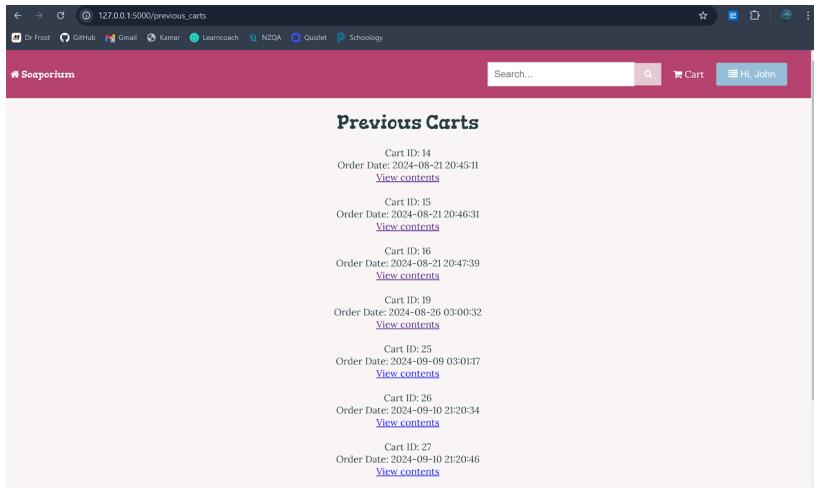
The screenshot shows a web browser window with the URL `127.0.0.1:5000/view_current_cart`. The page has a dark header bar with various icons and a red navigation bar at the top. Below the navigation bar, the main content area is titled "My Cart". It displays the message "Your cart is empty". At the bottom of the page, there is a dark footer bar with links to "About us", "Contact us", "FAQs", "Image credits", and "Ssaporium © 2024".

After completing



View previous orders	/view_previous_orders	With previous orders	Displays list of previous orders	Displays list of previous orders	Pass	Users should have easy access to their order history for reference.
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Screenshot evidence:



Link

`127.0.0.1:5000/previous_carts`

Database

Query History

```
1 SELECT * FROM Cart WHERE userid = 1 AND status = 'completed';|
```

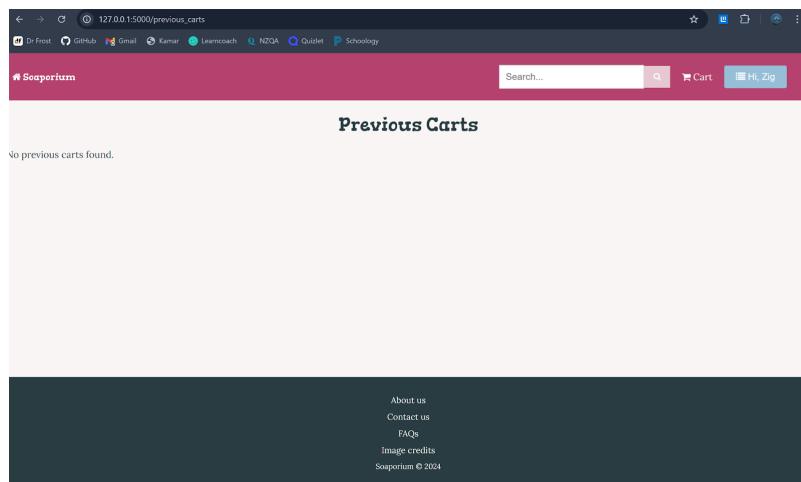
Grid view Form view

Total rows loaded: 7

	cartid	userid	order_date	status
1	14	1	2024-08-21 20:45:11	completed
2	15	1	2024-08-21 20:46:31	completed
3	16	1	2024-08-21 20:47:39	completed
4	19	1	2024-08-26 03:00:32	completed
5	25	1	2024-09-09 03:01:17	completed
6	26	1	2024-09-10 21:20:34	completed
7	27	1	2024-09-10 21:20:46	completed

View previous orders	/view_previous_orders	No previous orders	Message indicating no previous orders	Message indicating no previous orders	Pass	Clear messaging helps users understand their order history.
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Screenshot evidence:



Database

```

Query History
1 SELECT * FROM Cart WHERE cartid = userid = 18 AND status = 'completed';

Grid view Form view
Total rows loaded: 0
cartid userid order date status

```

View previous order contents	/view_previous_order_contents	Valid order ID	Displays details of the previous order	Displays details of the previous order	Pass	Order details should be easily accessible and clear to users.
------------------------------	-------------------------------	----------------	--	--	------	---

Screenshot evidence:

The screenshot shows a web browser window with the URL `127.0.0.1:5000/view_previous_order/14`. The page title is "Order Details". It displays two items: "Lavender" and "Grapefruit Zest". Each item has its quantity, unit price, and total price listed. Below each item is a blue "Add to Cart" button. At the bottom of the page, it says "Total Price: \$22.96" and there are two red buttons: "Back to previous orders" and "Back to home". The footer contains links to "About us" and "Contact us".

Link

`127.0.0.1:5000/view_previous_order/14`

Database

Query History

```
1 SELECT Soap.name AS soap_name, Soap.price AS unit_price, CartItem.quantity AS soap_quantity
2 FROM CartItem JOIN Soap ON Soap.soapid = CartItem.soapid WHERE CartItem.cartid = 14;
```

Grid view Form view

Total rows loaded: 2

	soap_name	unit_price	soap_quantity
1	Lavender	5.99	3
2	Grapefruit Zest	4.99	1

User info	/userinfo	Valid data	Displays user information correctly	Displays user information correctly	Pass	User profiles should be well-organised and easy to update.
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Screenshot evidence:

The screenshot shows a web browser window with the URL `127.0.0.1:5000/user?userid=1`. The page title is "My Account". It displays the user's information: First Name: John, Last Name: Reese, Email: johnr@example.com. Below this, there is a "Current Shipping Address" section with the address: 1 Library Street, Brooklyn, New York, New York, USA, 11234. At the bottom of the page, there is a dark footer bar with links to "About us", "Contact us", "FAQs", and "Image credits".

Link

`127.0.0.1:5000/user?userid=1`

Database

Query History

```
1 SELECT * FROM User WHERE email = "johnr@example.com";
```

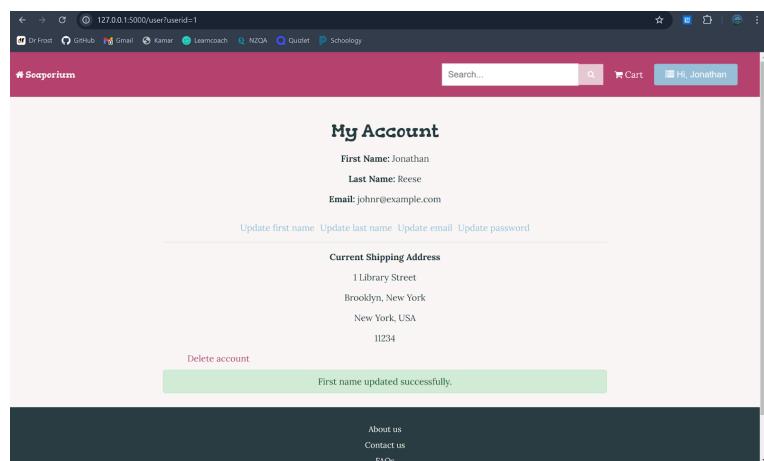
Grid view Form view

Total rows loaded: 1

userid	fname	lname	housenumber	street	suburb	town	region	country	postcode	email	password
1	John	Reese	1	Library Street	Brooklyn	New York	New York	USA	11234	johnr@example.com	scrypt...

Updating information	/update_info/fname	Expected data - name 1-50 characters	Updates field successfully	Updated field successfully	Pass	Validation should ensure that inputs meet the required criteria.
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Screenshot evidence:



Link

127.0.0.1:5000/update_info/fname

Database

Query History

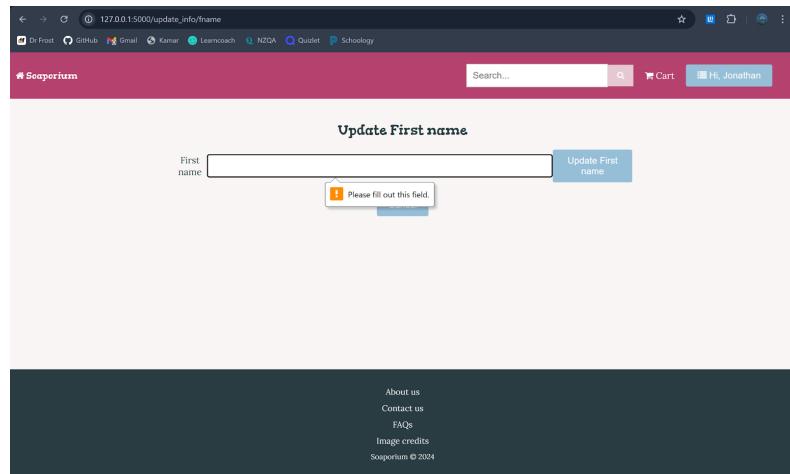
```
1 SELECT fname FROM User WHERE email = "johnnr@example.com";
```

	Grid view	Form view
	<input type="button" value=""/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="button" value="X"/> <input type="button" value="K"/> <input type="button" value="L"/> <input type="button" value="1"/> <input type="button" value="R"/> <input type="button" value="F"/> <input type="button" value="Total rows loaded: 1"/>	

fname
1 Jonathan

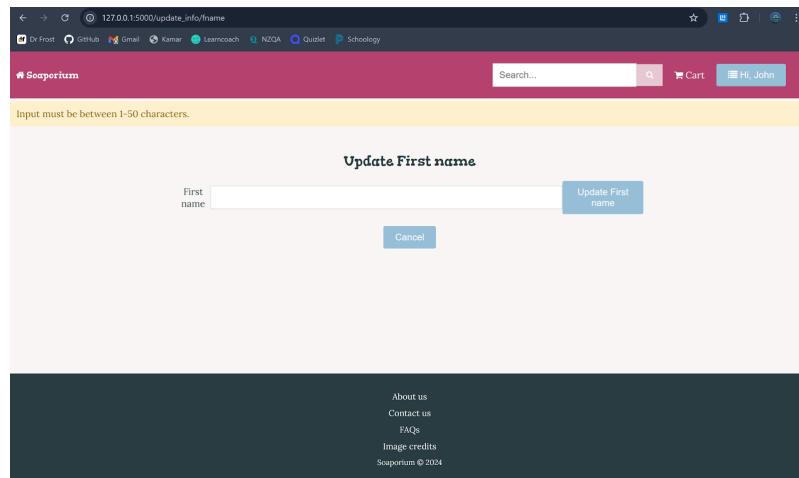
Updating information	/update_info/file	No input given	Fails and tells user to input data	Failed and told me to input data	Pass	Length validation for user input should be clearly communicated.
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Screenshot evidence:



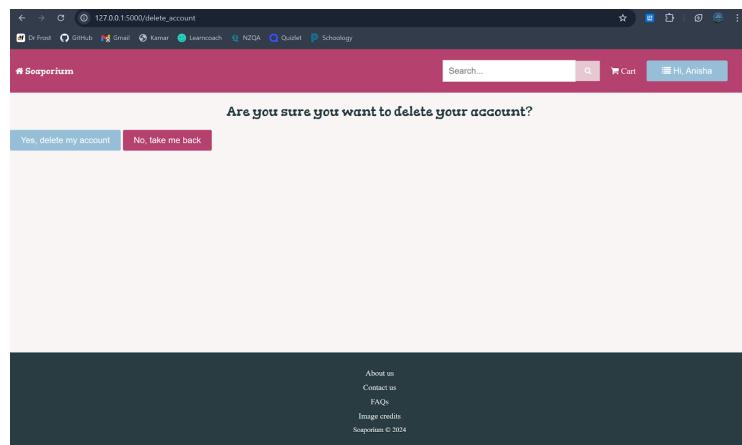
Updating information	/update_info/file	Name 51 characters	Fails and tells user input is too long	Failed and told me input is too long	Pass	Implement clear character limits to avoid input errors.
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Screenshot evidence:



Deleting account	/delete_account	User wants to delete their account	Renders account deletion confirmation page	Failed and told me 404 has occurred	Pass	Any errors should be clearly communicated
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Screenshot evidence:



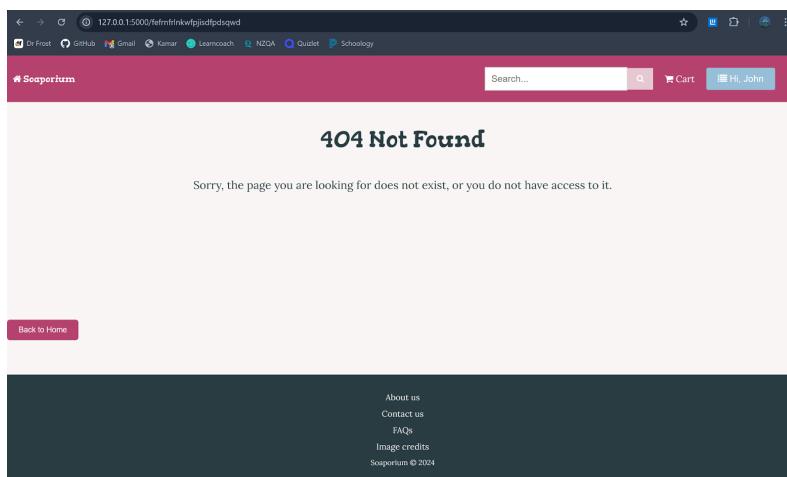
Link

127.0.0.1:5000/delete_account

404 errors	/(not any real route)	404 error	Fails and tells user	Failed and told me	Pass	Any errors should be clearly communicated
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		occurs	404 has occurred	404 has occurred		
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Screenshot evidence:



Phase 8: Final Details

Term 3 week 10

Finished my documentation, restyled some pages, and submitted my project 😊

Relevant Implications - Media (Web)

- One of the key implications in web design is the impact of **aesthetics** on user experience. A well-thought-out design can significantly affect how users interact with the website, guiding their attention and enhancing engagement. For my website, I implemented a cohesive colour scheme—b5446e (deep magenta), eacbd2 (soft pink), faf9f9 (near-white), 98c1d9 (muted blue), and 2b3d41 (deep teal)—to draw attention to important elements across each page. The layout is clean and intuitive, using grid and flexbox structures to ensure smooth navigation between pages without confusion. Key functions like product browsing, user account management, and the shopping cart are organised in a way that maintains a seamless user journey. By focusing on visual consistency and a user-friendly layout, the website not only looks polished but also enhances user engagement and appeals to a broad audience.
- Functionality** is another crucial implication of web design, as users expect websites to operate smoothly and without glitches. If functionality is compromised, it can lead to frustration and a loss of trust in the website. To address this, I conducted thorough testing of all key features, including user sign-ups, product additions, and account updates. This ensures the website remains reliable and that users can confidently interact with it, knowing that their information is secure and the site will respond predictably. By maintaining consistent functionality, the website fosters trust and credibility, encouraging users to return and continue engaging with the site.

Relevant Implications - Database

- A critical implication for the database is the responsibility of maintaining user **privacy**. Databases often store sensitive personal information, making it essential to implement robust security measures to protect user data from breaches or malicious

attacks. On my website, users can browse most pages anonymously, but functionalities such as signing up require personal details like first name, last name, email address, and a password. Additionally, users have the option to provide a shipping address. To address privacy concerns, I securely store all data in an SQL database and never share it with third parties. Passwords are hashed using the werkzeug.security library, ensuring they are protected. Furthermore, none of the routes in my website expose sensitive information in the URL, reducing the risk of data exposure to malicious actors.

2. Another relevant implication of the database for this project is ensuring its **future-proofing**. Future-proofing is important to a database because it ensures the database can continue to be used and is not redundant in the future. I addressed this by building features that allow for scalability and flexibility. For instance, when a new soap product is added, it will automatically appear on the website without requiring any manual updates to the code. Additionally, new users can easily join by signing up, providing basic (yet sensitive) information such as their name, email, and password. Once registered, users have the ability to update their personal details, such as shipping address and password, ensuring their information is always current. Furthermore, users can choose to delete their accounts at any time, giving them full control over their data and engagement with the site. These features not only enhance user experience but also ensure the site remains adaptable as it grows.