Nicole Nightmare Shopfront

Full-stack MERN App

Overview

The purpose of the app is to provide a bespoke e-commerce environment for a local Brisbane artist.

The application's development philosophy is to create an online shopfront that reflects the artist's own creative work. This application will provide an user experience that differentiates itself from one size fits all traditional e-commerce apps.

Our platform's unique approach would reflect the client's creative identity whilst providing an online shop front with excellent UX design. We believe this purposeful approach will improve the artist's reach and commercial success.

This application is tailor made for a fictional Brisbane based artist called Nicole Nightmare, modeled on the real Brisbane artist Phoebe Paradise.

What makes this App unique?

Seller Features

- Product Management: Allows the seller to add products to their store, including details such as product images, descriptions, and categories.
- Pricing Control: Enables the seller to set and adjust prices for each product.
- Inventory Tracking: Automatically updates inventory levels as products are sold and displays a "Sold Out" status on the shopfront for items that are no longer available. This helps in managing the amount of products available and ensures customers are aware of product availability.

User Features

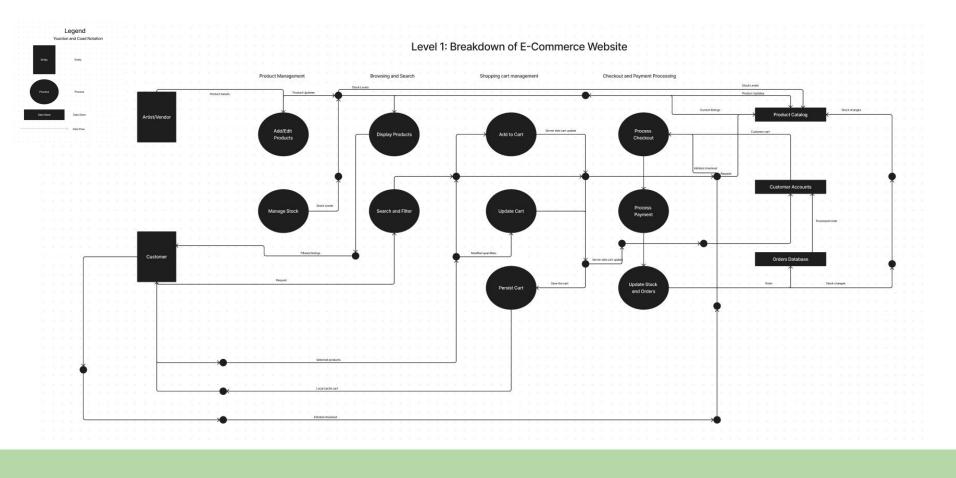
- Product Browsing: Customers can browse through the artist's wares, with the option to filter or search products by type, making it easier to find specific items.
- Persistent Shopping Cart: A shopping cart feature that retains items between sessions, allowing customers to add products to their cart and complete the purchase at a later time without losing their selections.
- Checkout Process: A streamlined checkout process for customers to review their cart, enter shipping and payment information, and complete their purchase.

Target Audience

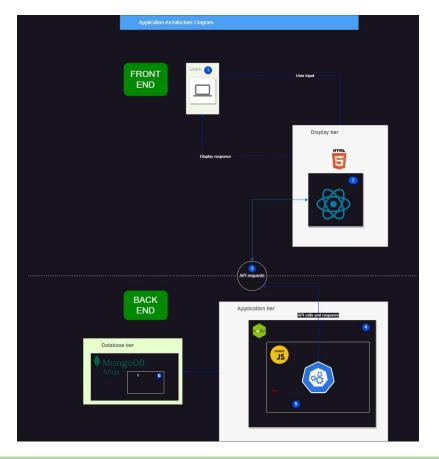
The target audience for the website is a small Brisbane based artist. The website will reflect the artist aesthetics as to appeal in turn to their customer base of eighteen to fourty year old individuals drawn towards alternative art. For our website we based our fictitious Brisbane artist on the real Brisbane artist Phoebe Paradise.

Our fictional artist is named Nicole Nightmare. She produces art prints and selects clothing items for a mostly female audience. She is famous for her striking visual style that incorporates a large use of saturated colors and a recurring motif of old queenslanders.

Data Flow



Application Architecture



1. Users

The user accesses the application via a web browser.

4. Express.js & Node.js

The API has multiple endpoints that direct how requests are processed and responded to Each endpoint has different associated middleware that is executed in order until a response can be sent back to the client. It's is through middleware that authentication and authorisation features are added to the application. This is tracititated by Express js, a server-side web framework that runs within a Node, is server.

2. React.js

React, is, a JavaScript framework for client-side applications, is used to build the user interface. Components in React render into HTML.

5. Mongoose

Within Express is, Mongoose, a JavaScript programming library, is used to manage the MongoOB database connection and the manipulation of the data within that application. Each MongoOB collection is mapped to a schema within the Express application. This schema is used to define the structure of the documents within. These schemas are then passed to a Model object. The database is then queried, new documents created and existing documents updated or deleted via the manipulation of these Models.

3.API Requests

By interacting with the React user interface users can send XML HTTP requests to the server.

6. MongoDB

MongoDB, hosted by Atlas, provides contiguous storage of the web application's data. MongoDB is a NoSOL database, meaning it stores data in documents within collections. The response it sends back to the server-side application is interpreted by Mongoose.



Payment Confirmation

EVENT The payment pi_3Opo91LPU5JdzyH80KUB4XhB for \$266.00 AUD has succeeded ch 3Opo91LPU5JdzyH80npyHK5V was charged \$266.00 AUD evt 30po91LPU5JdzyH80o64KChY 3/2/24, 8:42:11 AM A new payment pi_3Opo91LPU5JdzyH80KUB4XhB for \$266.00 AUD was created 3/2/24, 8:42:11 AM evt_30po91LPU5JdzyH80m8n0Cr0 The payment pi_3Opo8BLPU5JdzyH81X59Ogwc for \$29.00 AUD has succeeded evt_30po8BLPU5JdzyH81bijp6v0 3/2/24, 8:41:20 AM ch_3Opo8BLPU5JdzyH81ICOoKRI was charged \$29.00 AUD evt_30po8BLPU5JdzyH81SSrF4P0 3/2/24, 8:41:19 AM A new payment pi_3Opo8BLPU5JdzyH81X59Ogwc for \$29.00 AUD was created evt_30po8BLPU5JdzyH81tjudkDX 3/2/24, 8:41:19 AM The payment pi_3OpnpDLPU5JdzyH80bZoNFs6 for \$38.00 AUD has succeeded evt_30pnpDLPU5JdzyH80Hu5ZIR3 3/2/24, 8:21:43 AM ch_3OpnpDLPU5JdzyH80IECKiij was charged \$38.00 AUD evt_30pnpDLPU5JdzyH80tyXqN5i 3/2/24, 8:21:43 AM A new payment pi_3OpnpDLPU5JdzyH80bZoNFs6 for \$38.00 AUD was created evt 30pnpDLPU5JdzyH80Dbtml6b 3/2/24, 8:21:43 AM The payment pi 3Opn75LPU5JdzvH80GBhkfwf for \$67.00 AUD has succeeded evt 30pn75LPU5JdzyH80Bfg9UkN 3/2/24, 7:36:08 AM ch 3Opn75LPU5JdzyH80flHBjk5 was charged \$67.00 AUD evt_30pn75LPU5JdzyH809BLhYgR 3/2/24, 7:36:07 AM A new payment pi_3Opn75LPU5JdzyH80GBhkfwf for \$67.00 AUD was created evt_30pn75LPU5JdzyH80TPjpkC6 3/2/24, 7:36:07 AM The payment pi_3OpNoeLPU5JdzyH80UhQpqoz for \$38.00 AUD has succeeded evt_30pNoeLPU5JdzyH80wyCbk6M 3/1/24, 4:35:25 AM

Q Search

Overview

Developers

API keys

Webhooks

Mobile Wireframes

HOME

- Home greets users the first time they navigate to the site. It serves as the homebase for Navigation to all other routes on the site.
- The artist's work and a brief intro are provided
- The Navbar contains a hamburger menu with links to Home, Shop, and About. It also has user and cart icons which allow the user to sign in and also save items from the shop to their cart.
- The main logo also links the user to Home.
- All routes are wrapped by an Items, Cart and User provider which easily provides access to their state across all components of the app.





WELCOME

Welcome to the official site of Nicole Nightmare. Dive into the vibrant world where Brisbane meets boundless creativity. Here, you'll discover a collection of artworks that celebrate the beauty of the Sunshine State through Nicole's unique lense.



HOME



SHOP

ABOUT



site of into the sbane meets ere, you'll artworks tv of the Nicole's



■ Nicole &₩









SHOP

- The shop component contains all of the items stored in MongoDB.
 They're filtered within the component and then displayed by the item's category. (Tees, Hats, Art, Accessories, Other)
- The ShopFrontItem component within the ShopFront is a modular component which is passed item information in the form of props, from the parent ShopFront. This reduces code and makes the Item's easy to maintain and update is there are changes to layout or Database information.
- "Add Item" is a custom component which accepts the item as a prop.
 The item is then added via the useCartContext.



SHOP

Tees

Fab Shirt



■ Nicole as

ITEM

- Utilizes React's useContext hook to access and display item details from the global ItemsContext, ensuring dynamic and up-to-date content is provided based on the application's current state.
- Employs useParams from React Router to extract the unique item 'id' from the URL, allowing the component to fetch and render the specific details of the item selected by the user.
- Presents a detailed view of the item including an image, name, price, description, and size.
- Incorporates an AddToCartButton component, enabling users to add items directly to their shopping cart from the item details page.





Fab Shirt \$38

Fab Shirt for fab times.

Size



Add to cart

ABOUT

- Dedicated to showcasing the profile and artistic narrative of Nicole Nightmare, the component delivers an engaging overview of the artist's background and the theme of her work, emphasising her connection to Brisbane.
- Features a minimalist design approach with focused text sections for storytelling, complemented by aesthetic elements like color blocks, contributing to a narrative about the artist's journey and style.



The Artistic Journey of Nicole Nightmare

Nicole Nightmare is an emerging artist from Brisbane, making waves with her distinctive creations. Her artwork serves as a mirror to her experiences growing up in Queensland's vibrant Sunshine State. Unmistakably Brisbane, Nicole's work delves into the exploration of form and function within the city's evolving landscape.

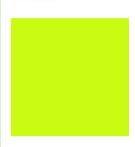
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu



The Artistic Journey of Nicole Nightmare

Nicole Nightmare is an emerging artist from Brisbane, making waves with her distinctive creations. Her artwork serves as a mirror to her experiences growing up in Queensland's vibrant Sunshine State. Unmistakably Brisbane, Nicole's work delves into the exploration of form and function within the city's evolving landscape.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



LOGIN

- Implements a user authentication process utilizing React's useState and useEffect hooks, allowing for automatic login checks via an autoLogin API call and updating user context upon successful authentication.
- Provides a login interface with state-controlled input fields for email and password, employing real-time validation to enable the submission button only when both fields contain input.
- Captures and displays error messages to inform the user of incorrect login attempts, enhancing user feedback and interaction within the authentication process.
- Includes a direct link to the registration page for new users, facilitating easy navigation between login and registration components within the application's user interface.



nicole@nightmare.com
•••••

Make new account

REGISTER

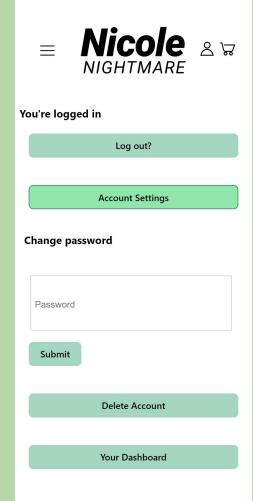
- Provides a registration interface enabling new users to create an account by inputting their email, first name, last name, and password, with state hooks managing each input field.
- Implements form validation logic to enable the submission button only when all fields are filled, ensuring that users provide all necessary information before proceeding, thereby improving data integrity and user experience.
- Upon successful registration, utilises the application's context management to update user state and automatically navigate the user to the home page, integrating the registration process into the user's navigation flow



Email		
First Name		
Last Name		
Password		
	Make account	

LOGGED IN / SETTINGS

- Utilizes React's context and useState hooks to manage user authentication states, including active user status and admin privileges, and controls visibility of UI elements based on these states.
- Implements a logout functionality that sends a GET request to a specified endpoint, clears user-specific states upon successful response, and navigates the user to the home page.
- Organizes user interaction elements within a flexible container, providing a straightforward interface for logging out, accessing account settings, and navigating to additional user-specific areas like an artist dashboard.





ou ie loggeu iii		
	Log out?	

Vou're loaged in

Account Settings

Your Dashboard

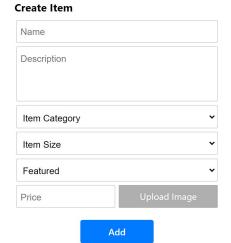
ARTIST PORTAL

- Once the admin has been verified and logged in, they will have access to the artist portal.
- The artist portal was built with the intention to allow the user to create, update and delete items that are available for purchase. All items are provided via global items context.
- There are a series of textareas and inputs which take text and number entry.
- Checks are made on the input to ensure it doesn't exceed a set amount of characters.
- Creating a new item saves to the items collection in the DB.
 All images will be saved to separate storage in Firebase and then the URL is saved as a string in MongoDB.
- Updating an item will take pre-existing data for the item and populate each field. Every field must be present for the items to be saved.
- Deletion of an item selects an item via drop-down.





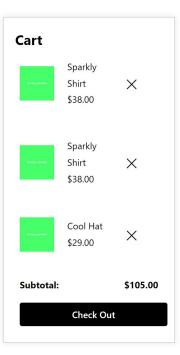
Hi, Nicole.



CART

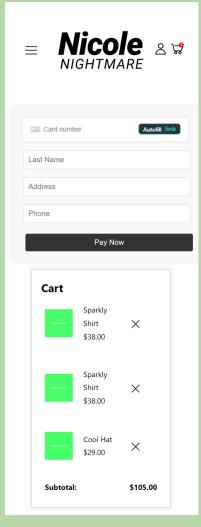
- The user cart context is global across the app. This allows a persistent state for the cart an any location in the site.
- Each cart item is assigned a unique key generated by concatenating the item's id with its index in the array. This helps React identify which items have changed, are added, or are removed.
- Items are displayed with the item image, name and price. A subtotal for all of the items is displayed at the bottom of the page next to the checkout button.
- Checkout button will navigate to the checkout for purchases





CHECKOUT

- Utilizes Stripe.js and Stripe Elements to handle secure payment processes, enabling the collection and submission of card details directly within the user interface.
- Leverages React context for accessing cart subtotal and React Router for navigation, facilitating seamless transitions and data access across different components of the application.
- Implements a form submission process that includes validation checks for Stripe service readiness, extracts card information, creates a payment method, and communicates with the server to process payments.
- Provides error handling mechanisms throughout the payment process, including logging errors for debugging purposes and offering feedback to the user based on the payment outcome.





Card numb	er	Autofill link	
Last Name			
Address			
Phone			
Pay Now			
Cart			
werng canada	Sparkly Shirt \$38.00	×	
nearing agrowth	Sparkly Shirt \$38.00	×	

ORDER CONFIRMATION

 The OrderConfirmation component utilizes the useParams hook from react-router-dom to extract the orderld from the URL parameters, then displays it to the user, which ties the confirmation directly to the specific transaction they completed.



Purchased!

Order

#pi_3OpoAcLPU5JdzyH80JGQeAxq

Thanks for shopping with Customer, and supporting home-grown artists! You should receive an email shortly with details of your purchase. If for any reason you require assistance with your purchase, please reach out at support@email.com

Tablet Wireframes







WELCOME

Welcome to the official site of Nicole Nightmare. Dive into the vibrant world where Brisbane meets boundless creativity. Here, you'll discover a collection of artworks that celebrate the beauty of the Sunshine State through Nicole's unique lense.

Featured

SHOP



& ₩

SHOP

Tees

 \equiv

testing uploads

Fab Shirt

\$38

Add to car





요 😾

testing uploads

Fab Shirt

\$38

 \equiv

Fab Shirt for fab times.

Size



Add to cart

ABOUT



& ₩

The Artistic Journey of Nicole Nightmare

Nicole Nightmare is an emerging artist from Brisbane, making waves with her distinctive creations. Her artwork serves as a mirror to her experiences growing up in Queensland's vibrant Sunshine State. Unmistakably Brisbane, Nicole's work delves into the exploration of form and function within the city's evolving landscape.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

LOGIN



& ₩

Email
Password
Password
Log In
Make new account

LOGGED IN / SETTINGS





& ₩

le a m

Υοι	u're logged in
	Log out?
	Account Settings
	Your Dashboard

Yo	ou're logged in
	Log out?
	Account Settings
c	change password
	Password
	Submit
	Delete Account
	Your Dashboard

REGISTER



& ₩

Email		
First Name		
Last Name		
Password		
	Make account	

ARTIST PORTAL



& ₩

Hi, Nicole.

Create Item Name Description Item Category Item Size Featured Price Upload Image

Update Item

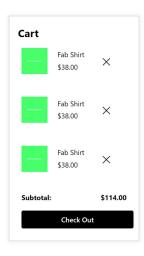
Select Item	
Name	
Description	

CART



 \equiv

2 😾



CHECKOUT









ORDER CONFIRMATION



2 😭

Purchased!

Order #pi_3OpoAcLPU5JdzyH80JGQeAxq

Thanks for shopping with Customer, and supporting home-grown artists! You should receive an email shortly with details of your purchase. If for any reason you require assistance with your purchase, please reach out at support@email.com

Desktop Wireframes

HOME

HOME SHOP ABOUT







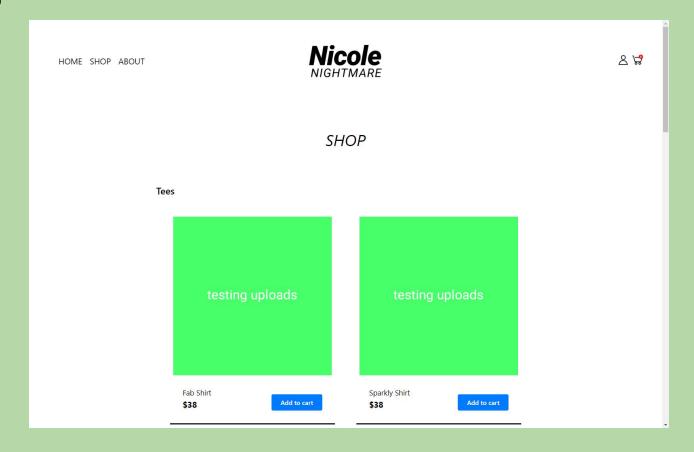


WELCOME

Welcome to the official site of Nicole Nightmare. Dive into the vibrant world where Brisbane meets boundless creativity. Here, you'll discover a collection of artworks that celebrate the beauty of the Sunshine State through Nicole's unique lense.

Featured

SHOP



ITEM



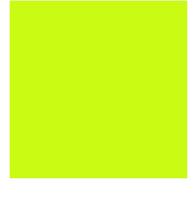
HOME SHOP ABOUT

2 😾

The Artistic Journey of Nicole Nightmare

Nicole Nightmare is an emerging artist from Brisbane, making waves with her distinctive creations. Her artwork serves as a mirror to her experiences growing up in Queensland's vibrant Sunshine State. Unmistakably Brisbane, Nicole's work delves into the exploration of form and function within the city's evolving landscape.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



REGISTER

HOME SHOP ABOUT



2 %

Email		
First Name		
Last Name		
Password		
	Make account	

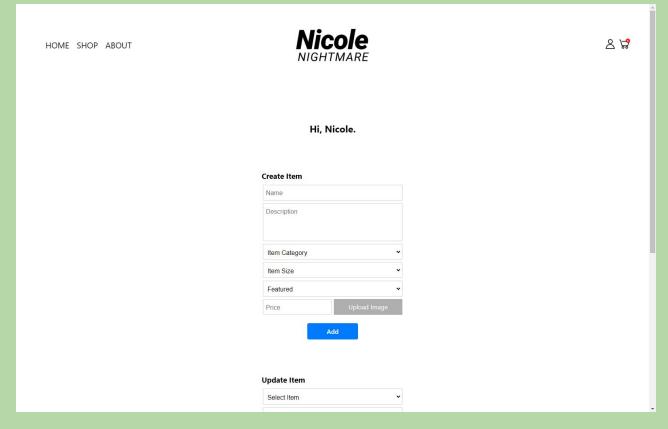
LOG IN

Nicole NIGHTMARE 2 😾 HOME SHOP ABOUT Email Password Log In Make new account

LOGGED IN

HOME SHOP ABOUT	Nicole NIGHTMARE	요 넓
You're logged in		
	Log out?	
	Account Settings	
Change password		
Password		
Submit		
	Delete Account	
	Your Dashboard	

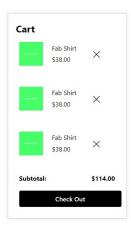
ARTIST PORTAL



CART

HOME SHOP ABOUT

NICOLE
NIGHTMARE



CHECKOUT

HOME SHOP ABOUT

NICOLE
NIGHTMARE





ORDER CONFIRMATION

HOME SHOP ABOUT



2 😾

Purchased!

Order #pi_3OpoAcLPU5JdzyH80JGQeAxq

Thanks for shopping with Customer, and supporting home-grown artists! You should receive an email shortly with details of your purchase. If for any reason you require assistance with your purchase, please reach out at support@email.com