

Ecommerce Development Tasks

Theme Customization Task: Featured Product Section

Objective:

Enhance the Dawn theme by Shopify by introducing a "Feature Section" that can be added to any page. The section should highlight a selected product, its features, and have a call-to-action (CTA) button. Use your creativity for the section's design, but ensure it using the styling options utilised by Dawn sections (color schemes, spacing configuration, etc).

Useful Links & Documentation:

- [Signing up for Shopify Partners](#)
- [Getting started with the Shopify CLI](#)
- [Creating a development store](#)

Task Overview:

- Clone the Dawn theme using Shopify CLI –
- Develop a new customizable section within the theme that allows the merchant to choose a product, specify up to 5 feature bullet points, and set the CTA button text and link.
- Implement the section using Liquid for dynamic content rendering.
- Style the section with plain CSS, ensuring it is responsive and cohesive with other sections in the theme.
- (Bonus) Create a web component that automatically cycles through the bullet points, adding an engaging element to the section.

Detailed Requirements:

Section Setup:

Create a new "feature-section" using Shopify's section architecture, making it editable through the theme editor.

Include options to select a product from the catalog and input feature points and CTA button text in the section settings.

Liquid Implementation:

Use Liquid to dynamically populate the section with the chosen product's image, title, and feature bullet points as specified in the theme editor.

Frontend Development:

Use plain CSS for styling, ensuring the section is responsive and visually integrates with the Dawn theme's existing design elements and color palette.

Encourage creative design while maintaining consistency with the theme's default aesthetics.

Interactivity & Web Component:

(Bonus) Develop a lightweight web component (using HTML, CSS, and vanilla JavaScript) that automatically flips through the feature bullet points to enhance user engagement.

Ensure the web component is accessible and does not hinder the site's performance.

Deliverables:

- A GitHub repository containing the modified Dawn theme with the newly added feature section.
- A README file with:
 - Instructions for cloning and setting up the theme using Shopify CLI.
 - A summary of the changes made to the theme.
 - Guidance on how to add and configure the new section through the Shopify admin.

Evaluation Criteria:

- Creativity and integration with the Dawn theme.
 - Following the code style of other sections is beneficial
 - Using styling principles present on other sections will be looked
- Code quality, with a focus on semantic HTML and efficient CSS.
- Responsiveness and accessibility of the new section.
- (Bonus) Functionality and innovation of the web component for feature points.

This task should allow you to demonstrate your ability to blend creativity with technical skills, while adhering to an existing code style by adding a unique feature. The bonus component offers you an opportunity to showcase your ability to create interactive user experiences.

Basic App Development Task: Custom Discount Code Generator

Objective:

Develop a simple Shopify app that allows store owners to generate custom discount codes. The app should offer a basic UI built with React and backend logic using Remix. The design should be intuitive and cohesive with Shopify's admin interface, but creativity in the layout and features is encouraged.

Useful Links & Documentation:

- [Signing up for Shopify Partners](#)
- [Creating a development store](#)
- [Creating an app using the Shopify CLI](#)

Task Overview:

- Set up a Remix powered server that handles authentication with Shopify using OAuth.
- Create a Remix and React frontend that allows the user to specify parameters for discount codes (e.g., discount percentage, code prefix).
- Use Shopify Admin API to create discount codes based on user input.
- Ensure the app is secure, follows best practices, and integrates seamlessly with the Shopify admin.

Detailed Requirements:

App Setup:

Initialize a new Shopify app using Remix. Handle authentication and session tokens securely. Set up necessary app scopes to interact with the Shopify Admin API, particularly for creating discounts.

React Frontend:

Develop a user interface using React where merchants can specify discount code parameters (like discount value, validity period, prefix, etc.).

Ensure the UI is user-friendly and visually compatible with Shopify's admin panel, but feel free to be creative with the design and user experience.

Backend Logic:

Implement backend logic in Remix to process user inputs from the frontend and create discount codes using Shopify's Admin API.

Ensure proper error handling and validation of user inputs to prevent invalid discount configurations.

Security & Best Practices:

Follow Shopify's recommended best practices for app development, focusing on authentication, data handling, and API rate limiting.

Ensure the app is secure against common web vulnerabilities.

Documentation & Setup:

Provide a README file with detailed setup instructions, including how to install and configure the app in a Shopify store.

Document any assumptions made and provide a brief overview of the app's functionality.

Deliverables:

A GitHub repository containing the app's source code, including both frontend and backend components.

A README file that guides the user through setting up the app in their Shopify store, detailing any necessary steps and configurations.

Evaluation Criteria:

- **Functionality:** The app meets the basic requirements of generating custom discount codes with the specified parameters.
- **Code Quality:** The code is clean, well-organized, and follows best practices for security and performance.
- **User Experience:** The app's UI is intuitive, easy to navigate, and visually consistent with Shopify's design language, with creative elements that enhance usability.
- **Documentation:** Clear and concise documentation that allows for easy setup and use of the app.

This task is designed to assess your skills in building Shopify apps, including backend logic with Remix, frontend development with React, and integration with Shopify's ecosystem. The focus on creativity within the bounds of Shopify's design principles allows you to showcase your ability to deliver user-friendly and aesthetically pleasing applications.