

To evaluate the functionality, performance and usability of the given demo website.

<https://casioclone.netlify.app/>

Modules & Submodules

Module	Submodules
Homepage	Banner, Navigation Menu, Featured Products, Footer
Product Listing Page	Filters, Sorting, Product Cards
Product Details Page	Images, Description, Price, Add to Cart, Wishlist
Cart	Product List, Quantity Update, Remove, Total Price
Checkout	Billing, Shipping, Payment, Order Summary
Search Functionality	Search Bar, Auto-suggestions
User Authentication	Login, Sign Up, Forgot Password
Responsive Design	Desktop, Tablet, Mobile
Performance	Load Time, Image Optimization, Lazy Loading
Usability	Accessibility, Navigation, Error Handling

Test Plan Document

1. Objective

To validate the **functionality**, **performance**, and **usability** of the Casio Clone demo website and ensure it meets expected quality standards before deployment or client demonstration.

2. Scope of Testing

In Scope:

- Functional testing of all modules (Homepage, Product, Cart, Checkout)
- Usability testing across desktop and mobile views

- Performance testing for load time and responsiveness
- Basic accessibility validation
- Cross-browser compatibility

Out of Scope:

- Backend/database testing
- Integration with real payment gateways
- Security & penetration testing

3. Test Strategy

Testing Type	Description
Functional Testing	Verify core features (navigation, add to cart, checkout, etc.)
Usability Testing	Ensure smooth user flow, clear interface, mobile responsiveness
UI Testing	Check visual alignment, design consistency, font readability
Compatibility Testing	Validate functionality across browsers and devices
Performance Testing	Measure load speed, optimize media, detect rendering delays

4. Test Environment

Component	Details
OS	Windows 10, macOS Monterey
Browsers	Chrome, Firefox, Safari, Edge
Devices	Desktop, Mobile (Android/iOS)
Tools	Chrome DevTools, Lighthouse, Sheets

5. Test Deliverables

- Module-wise mind map
- Test scenarios & test cases (functional and usability)
- Test execution report
- Defect report with severity and screenshots/video proof
- Usability improvement suggestions

6. Entry Criteria

- Website is deployed and accessible
- Major features are integrated (cart, product details, etc.)
- Browsers and devices available for testing

7. Exit Criteria

- All high-severity and critical defects resolved
- Test case pass rate of 95% or above
- All planned tests executed
- Final reports submitted

Roles & Responsibilities

Role	Responsibility
QA Engineer	Test design, execution, defect reporting
Project Lead	Review plan and ensure timely delivery

10. Risks and Mitigation

Risk	Mitigation
Unstable deployment or crashes	Coordinate with devs to stabilize before testing
Limited browser/device availability	Use cloud-based testing platforms if needed
Incomplete feature deployment	Sync with dev team before execution starts

MIND MAP



Functional Test Scenarios & Test Cases

Module: Homepage

Test Case ID	Scenario	Test Steps	Expected Result
TC_H_001	Verify homepage loads	Open browser and navigate to homepage	Homepage loads with logo, nav, banner, footer
TC_H_002	Verify navbar links	Click on Home, Shop, About, Contact links	Redirects to respective sections/pages

Module: Product Listing

Test Case ID	Scenario	Test Steps	Expected Result
TC_PL_001	Verify all products are displayed	Navigate to "Shop" page	Products are listed with image, title, and price

TC_PL_002	Click product card to view details	Click any product on the listing	Redirects to product detail page
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Module: Product Details Page

Test Case ID	Scenario	Test Steps	Expected Result
TC_PD_001	Verify product information is visible	Open product detail page	Shows product image, name, price, description
TC_PD_002	Add product to cart	Click "Add to Cart"	Product is added; cart icon updates

Module: Cart

Test Case ID	Scenario	Test Steps	Expected Result
TC_C_001	View cart contents	Add item to cart → Click on cart	Product appears in cart with quantity and price
TC_C_002	Change product quantity	In cart, increase/decrease quantity	Total updates accordingly
TC_C_003	Remove product from cart	Click remove/delete icon	Product is removed from cart

Module: Checkout

Test Case ID	Scenario	Test Steps	Expected Result
TC_CO_001	Checkout form field validation	Submit form without filling any fields	Error messages appear
TC_CO_002	Place an order	Fill all fields with valid data and submit	Order is placed; success message shown

Usability Test Scenarios & Test Cases

Navigation and Layout

Test Case ID	Scenario	Test Steps	Expected Result
UTC_001	Navbar visibility	Scroll page	Navbar remains visible (if sticky)
UTC_002	Font readability	View homepage and product details	Fonts are clean, legible, and not too small
UTC_003	Color contrast and accessibility	Compare text and background	Good contrast for readability

Mobile Responsiveness

Test Case ID	Scenario	Test Steps	Expected Result
UTC_004	Open site on mobile	Open site on phone or mobile emulator	Layout adjusts, no horizontal scrolling
UTC_005	Product image and card alignment	View product listing and detail on mobile	Images scale properly, no overlap

User Feedback and Interactions

Test Case ID	Scenario	Test Steps	Expected Result
UTC_006	Button feedback	Click "Add to Cart", "Checkout"	Button visually changes on click
UTC_007	Form input error messaging	Submit empty form on checkout	Clear and user-friendly error messages shown

Search Usability (if implemented)

Test Case ID	Scenario	Test Steps	Expected Result
UTC_008	Locate and use search bar	Enter keyword into search	Product results related to input are shown
UTC_009	Search no results	Enter gibberish (e.g., "abcd123")	"No products found" message appears

1. FUNCTIONAL TEST CASES

Module: Homepage

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_F_001	Verify homepage loads correctly	Internet connected	1. Open browser 2. Enter URL: https://casioclone.netlify.app	Homepage loads with logo, nav bar, banner, footer
TC_F_002	Verify top navigation bar links	Homepage is loaded	1. Click on each link: Home, Shop, About, Contact	Navigates to corresponding section or page

Module: Product Listing

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_F_003	Verify all products are listed	Homepage is loaded	1. Click on "Shop" 2. Scroll through products	Product cards show image, title, price
TC_F_004	Product details page loads correctly	Product listing available	1. Click on any product card	Redirects to product detail page with correct info

Module: Add to Cart

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_F_005	Add product to cart	On product detail page	1. Click "Add to Cart"	Cart icon updates with count
TC_F_006	Add multiple products	Cart is not empty	1. Add 2 more products from shop page	Cart icon reflects total items

Module: Cart

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_F_007	View cart contents	Product added to cart	1. Click on cart icon	Product list with quantity and price shown
TC_F_008	Change product quantity	Product in cart	1. Increase/decrease quantity	Total price updates accordingly
TC_F_009	Remove product from cart	Product in cart	1. Click on "Remove" or trash icon	Product disappears from cart

Module: Checkout

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_F_010	Submit empty checkout form	Items in cart	1. Click "Checkout" 2. Leave form blank 3. Submit	Error messages displayed on required fields
TC_F_011	Submit filled checkout form	Valid details entered	1. Fill all fields 2. Submit the form	Success message or order confirmation

2. USABILITY TEST CASES

Visual Design & Layout

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_U_001	Font readability	Website loaded	1. Observe text on homepage and product pages	Font size and color are readable and accessible
TC_U_002	Button design and feedback	Buttons visible	1. Hover and click on "Add to Cart", "Checkout"	Buttons respond with visual feedback

Form UX

TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_U_003	Form shows required field hints	On checkout page	1. Leave a required field blank2. Click "Submit"	Clear validation message appears
TC_U_004	Easy navigation between input fields	Form loaded	1. Use TAB key to move through form	Fields selected in correct order

Feedback on Actions

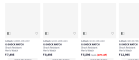
TC ID	Test Case Description	Precondition	Test Steps	Expected Result
TC_U_005	Add to cart gives feedback	Product detail page	1. Click "Add to Cart"	Cart count updates and/or success toast shown
TC_U_0	Checkout confirms submission	Form submitted	1. Submit completed form	Confirmation page/message is displayed



Test Execution Report

Test Case ID	Test Scenario Description	Test Steps	Expected Result	Actual Result	Status	Comments
TC_F_001	Verify homepage loads correctly	1. Open browser2. Enter the URL	Homepage should load with logo, navbar, banner, and footer	Homepage loads as expected	Pass	N/A
TC_F_002	Verify top navigation bar links	Click each navbar link (Home, Shop, About, Contact)	Should navigate to the respective pages	All links work and navigate correctly	Pass	N/A

TC_F_003	Verify product listing	1. Open Shop page2. Check listed products	Products displayed with images, titles, prices	Some product images are broken	Fail	Logged in defect report
TC_F_004	Verify product details page	1. Click a product2. Verify its details	Should show image, description, price	Loads correctly but slow	Fail	Logged in defect report
TC_F_005	Add product to cart	Click "Add to Cart" on product page	Product should be added and cart icon updated	Button unresponsive	Fail	Logged in defect report
TC_U_001	Verify font readability	Open homepage and read text	Text should be clearly legible	Font is readable on desktop; small on mobile	Fail	Logged in defect report
TC_U_002	Verify button feedback on click	Click on buttons like "Add to Cart", "Checkout"	Buttons should show hover/active feedback	No hover feedback for some buttons	Fail	Logged in defect report
TC_U_003	Verify navigation bar on scroll	Scroll down the page	Navbar should remain fixed and visible	Navbar is sticky and visible	Pass	N/A
TC_U_004	Logo click returns to home	Click the logo from another page	Should return to the homepage	Homepage loads successfully	Pass	N/A

Defect Log Table

Defect ID	Module	Test Case ID	Defect Description	Severity	Steps to Reproduce	Expected Result	Actual Result	Screenshot/Video	Status
D_001	Product Listing	TC_F_003	Broken/missing product images	Major	1. Go to Shop page2. Observe product thumbnails	All product images should load properly	Some images are not loading or broken		Open

D_00 2	Product Detail	TC_F_00 4	Product details page loads slowly (>5s)	Major	1. Click on any product2. Wait for page to load	Page should load within 3 seconds	Page takes more than 5 seconds to load		Open
D_00 3	Cart Function	TC_F_00 5	Offers are not showing	Critical	1. Go to product page	Product should have offers	Some product as offers		Open