**5. Testing Phase**

**Objective:**

The goal of the Testing Phase is to verify that the website works correctly as per the requirements. This includes checking functionality (JavaScript), layout (CSS), responsiveness, user interaction, and browser compatibility. Since this is a front-end-only project, testing is done manually.

**Types of Testing Performed**

| **Test Type** | **Description** |
| --- | --- |
| **Functional Testing** | To check if the website features (buttons, navigation, cart functions) work as expected. |
| **UI/UX Testing** | To ensure that the layout, colors, and fonts are visually pleasing and consistent. |
| **Responsive Testing** | To verify the website works well on mobile, tablet, and desktop using media queries. |
| **Cross-Browser Testing** | To ensure the website performs similarly in Chrome, Firefox, Edge, etc. |
| **Negative Testing** | To test unexpected user behaviors (e.g., clicking order |

**Tools Used for Testing**

| **Tool/Platform** | **Purpose** |
| --- | --- |
| **Web Browsers** | Chrome, Firefox, Edge – for browser testing |
| **DevTools (F12)** | Inspect elements, debug JS, test responsiveness |
| **Responsinator / Device Mode** | Simulate screen sizes (mobile/tablet) |
| **VS Code Live Server** | For live preview during development |
| **Console Logging** | Used console.log() to debug JavaScript logic |

**Sample Test Cases**

| **Test Case ID** | **Description** | **Steps to Test** | **Expected Result** | **Status** |
| --- | --- | --- | --- | --- |
| TC01 | Home to Menu Navigation | Click “Order Now” button on homepage | Should redirect to menu.html | ✅ Pass |
| TC02 | Add Item to Cart | Click “Add to Cart” button on a menu item | Alert appears confirming item added | ✅ Pass |
| TC03 | Total Price Calculation | Add multiple items to cart | Total price should be calculated correctly | ✅ Pass |
| TC04 | Place Order Button | Click “Place Order” with items in cart | Thank you alert/message should be shown | ✅ Pass |
| TC05 | Responsive Layout on Mobile | Open site on mobile or simulate in DevTools | Menu and cards should stack or resize properly | ✅ Pass |
| TC06 | Empty Cart Behaviour | Click “Place Order” with empty cart | Should show warning or prevent order | ✅ Pass |
| TC07 | Cross-browser Rendering | Open site in Chrome, Firefox, Edge | Layout and functions should be consistent | ✅ Pass |

**Bugs or Issues Found (During Testing)**

| **Issue ID** | **Description** | **Cause** | **Fix Applied** |
| --- | --- | --- | --- |
| BUG01 | Cart total not updating correctly | Price not parsed as number | Used parseFloat() on item price |
| BUG02 | Buttons unresponsive on some screen sizes | CSS elements overlapping buttons | Fixed layout using Flexbox wrapping |
| BUG03 | Images not loading | Incorrect image file paths | Corrected src attribute in HTML |
| BUG04 | JS error in console | Function not defined properly | Checked and reordered script tags |

**Test Results Summary**

* **Functional Tests**: All key features — navigation, cart, price calculation — are working as expected.
* **Responsiveness**: The website adapts properly to screen sizes ranging from 320px (mobile) to 1440px (desktop).
* **Cross-browser Compatibility**: No major issues found in Chrome, Firefox, or Edge.
* **JavaScript Errors**: Initial bugs were fixed with console debugging and testing different user scenarios.
* **User Experience**: The UI is simple and easy to navigate for first-time users.

**Summary**

The Testing Phase ensured that the website was fully functional, visually stable, and user-friendly. Manual testing was used to simulate real user behaviour and interaction. Each page and feature was tested thoroughly, especially the JavaScript-driven parts like adding items to the cart and calculating totals.

Although the website does not involve complex data handling or back-end functionality, this phase helped identify and resolve small bugs that could affect usability. Testing on multiple devices and browsers guaranteed consistency in how the site performs for different users.

Overall, testing improved the **reliability**, **stability**, and **professional quality** of the final product, even for a basic HTML/CSS/JS site.