

## Experiment 1

**Student Name:** Rahul Saxena

**UID:** 24MCI10204

**Branch:** MCA (AI-ML)

**Section/Group:** MAM - 3(B)

**Semester:** II

**Subject Name:** Software Testing [24CAH-654]

**Aim:** To design at least ten test cases to test the user interface (UI) of a website, ensuring its elements, functionalities, and responsiveness are working as expected.

### Steps:

- Select a website for testing: <https://rahul79051.github.io/portfolio.github.io/>
- Identify key UI components such as navigation menus, sections, forms, and links.
- Design ten test cases with the following details:
  - Test Case ID
  - Module Name
  - Test Designed By
  - Test Designed Date
  - Test Executed By
  - Test Title/Name
  - Test Steps
  - Expected Result
  - Actual Result
- Execute the test cases and record the actual results.
- Ensure the test cases cover critical UI aspects like:
  - Home page layout and functionality.
  - Responsiveness across devices.
  - Navigation and accessibility.
  - Form validation and submission.
  - Performance and speed.

### Test Cases:

**Test Case ID:** TC001

**Status = Passed**

**Module Name:** Home Page

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Home Page Load

**Test Steps:**

1. Open the URL in a browser.
2. Observe the home page elements.

**Expected Result:** Home page loads successfully with all elements displayed (header, footer, profile image, links, etc.).

**Actual Result:** Home page loaded successfully with all elements visible and functional.

**Test Case ID: TC002**

**Status = Passed**

**Module Name:** Navigation Menu

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Navigation Links Functionality

**Test Steps:**

1. Click each navigation link (e.g., About, Projects, Contact).
2. Observe if the respective section or page loads.

**Expected Result:** Each navigation link redirects to the correct section without errors.

**Actual Result:** Navigation links redirected to correct sections; all links functional.

**Test Case ID: TC003**

**Status = Passed**

**Module Name:** About Section

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify About Section Content

**Test Steps:**

1. Scroll to the About section.
2. Verify the content, images, and formatting.

**Expected Result:** About section displays content correctly with aligned text and visible profile image.

**Actual Result:** About section displayed correctly; profile image and text formatting are as expected.

**Test Case ID: TC004**

**Status = Passed**

**Module Name:** Projects Section

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Projects Section Display

**Test Steps:**

- Scroll to the Projects section.
- Verify project cards with descriptions and links.

**Expected Result:** All project cards are displayed with complete descriptions and working links.

**Actual Result:** All project cards displayed properly; links redirect to corresponding project repositories or pages.

**Test Case ID: TC005**

**Status = Passed**

**Module Name:** Contact Form

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Contact Form UI Design

**Test Steps:**

1. Scroll to the Contact Form section.
2. Verify the alignment and placement of form elements.
3. Check for consistent styling.
4. Validate placeholder text for each input field.

**Expected Result:** All form elements are visually aligned and styled consistently. Placeholder text is clear and matches the field purpose.

**Actual Result:** Form elements are visually aligned, styled, and include clear placeholders.

**Test Case ID:** TC006

**Status = Passed**

**Module Name:** Responsiveness

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Website Responsiveness

**Test Steps:**

1. Open the website on the following devices:
  1. **Devices:**
    - Desktop (Windows 11, macOS)
    - Tablet (iPad, Samsung Galaxy Tab S7)
    - Mobile (iPhone 13, Samsung Galaxy S22)
  2. **Browsers:**
    - Google Chrome (latest version)
    - Microsoft Edge (latest version)
  3. **Screen Resolutions:**
    - Desktop: 1920x1080, 1366x768
    - Tablet: 1280x800
    - Mobile: 414x896, 360x640

**Expected Result:** Website layout is responsive, with all elements properly aligned across devices, browsers, and screen resolutions.

**Actual Result:** Website displayed correctly on all devices, browsers, and screen resolutions. Layout adjusted as expected without any visual misalignment.

**Test Case ID:** TC007

**Status = Passed**

**Module Name:** Social Media Links

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Social Media Links

**Test Steps:**

1. Click on each social media link.
2. Verify if it redirects to the correct profile.

**Expected Result:** All social media links redirect to the correct profiles in a new tab.

**Actual Result:** All social media links opened correct profiles in new tabs.

**Test Case ID:** TC008

**Status = Passed**

**Module Name:** Performance

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Loading Animation

**Test Steps:**

1. Refresh the website or access it for the first time.
2. Observe any loading animation or visual indicator during page load.

**Expected Result:** Loading animation displays smoothly without lag.

**Actual Result:** No loading animation observed; page loads quickly without issues.

**Test Case ID:** TC009

**Status = Passed**

**Module Name:** Accessibility

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Accessibility Compliance

**Test Steps:**

1. Use an accessibility tool (e.g., Lighthouse).
2. Check for alt tags, ARIA roles, and keyboard navigation

**Expected Result:** Website complies with accessibility standards (WCAG) and has no major issues.

**Actual Result:** Accessibility test passed with minor suggestions (e.g., improve contrast in some sections).

**Test Case ID:** TC010

**Status = Passed**

**Module Name:** Font and Styling

**Test Designed By:** Rahul

**Test Designed Date:** 2025-01-11

**Test Executed By:** Rahul

**Test Title/Name:** Verify Font and Styling Consistency

**Test Steps:**

1. Observe font consistency across all sections of the website.
2. Verify that the font used is **Roboto** across headings, paragraphs, and other text elements.
3. Check if the color scheme aligns with the intended gray and white theme.

**Expected Result:** All text elements use the **Roboto** font, and the gray and white theme is consistent across the website.

**Actual Result:** Fonts across the website are consistent and use **Roboto**. The color scheme aligns well with the gray and white theme.

## Learning Outcome:

1. Understand the process of designing and documenting test cases for a website's UI.
2. Gain the ability to identify and evaluate critical UI components of a website.
3. Develop skills in ensuring cross-platform compatibility and responsiveness of web designs.
4. Learn to test functionalities such as navigation, form submission, and link redirects.
5. Appreciate the importance of user-centric design and accessibility in website development.
6. Strengthen knowledge in identifying and resolving UI inconsistencies or bugs.