Manual Testing Table for Ayist Group Website : https://ayistgroup.com/

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Status (Pass/Fail)
1.1	Verify Main Navigation Links	1. Open the website. 2. Click on each navigation link: **Home, Services, R&D Unit, Contact, Careers, About Us**. 3. Verify the correct pages load.	Each link navigates to the correct page.		
1.2	Validate Broken Links	1. Hover over all hyperlinks on the website. 2. Click on each hyperlink (including footer links).	All hyperlinks open without errors.		
2.1	Submit Contact Form (Valid Data)	1. Open the Contact page. 2. Fill in valid data: **Name, Email, Phone, and Message**. 3. Click **Submit**.	Form submits successfully with confirmation.		
2.2	Submit Contact Form (Invalid Email)	1. Open the Contact page. 2. Enter invalid email: **e.g., user@**. 3. Fill in other valid fields. 4. Click **Submit**.	Error message appears for invalid email format.		
2.3	Submit Contact Form (Empty Fields)	1. Open the Contact page. 2. Leave all required fields empty. 3. Click **Submit**.	Form does not submit; validation errors appear.		
3.1	Validate Service Descriptions	1. Navigate to the **Services** page. 2. Click on each service link. 3. Verify a description is present for each service.	Detailed descriptions are displayed correctly.		
3.2	Validate Footer Content	1. Scroll to the footer section. 2. Verify the presence of contact details, social media links, and copyright text.	Footer displays accurate and complete content.		
4.1	Verify Browser Compatibility	1. Open the website in **Google Chrome, Firefox, Safari, and Edge**. 2. Verify layout, alignment, and functionality.	Website functions consistently on all browsers.		
5.1	Measure Page Load Time	1. Open Google Chrome. 2. Use **DevTools > Network** tab. 3. Measure page load time for **Home** and **Services** pages.	Page load time is under 3 seconds.		
6.1	Verify All Images Load Correctly	1. Navigate through all pages. 2. Check if all images load without broken image icons.	All images load successfully.		

Instructions for Students:
1. Use **Jira Xray** to create test cases for each **Test Case ID** listed above.
2. Follow the **Test Steps** column to execute the manual tests.

3. Record the results in the **Actual Result** column.
4. Mark the test status as **Pass** or **Fail** in the **Status** column.
5. Log any defects as separate Jira issues and link them to the corresponding test cases.

Step 1: Understanding the Requirements
1. Visit the Ayist Group website: **https://ayistgroup.com/**.
2. Carefully explore all pages and understand their features:
   o Home Page: Basic information and navigation.
   o Services Page: Description of company services.
   o R&D Unit: Information about the research unit.
   o Contact Page: Contact form for inquiries.
   o Footer Links: Company contact details and navigation links.
3. Identify test scenarios:
   o Test the website's **navigation links**, **contact form functionality**, and **content accuracy**.
   o Check the **page load time**, **image rendering**, and **cross-browser compatibility**.

Step 2: Setting Up Test Cases in Jira Xray
1. **Log in to Jira and Access Xray**:
   o Go to your **Jira project** for this assignment.
   o Click **Create Issue** > Select **Test** as the issue type.
2. **Write a New Test Case**:
   o Fill in the following fields:
      ▪ **Summary**: Clear and concise title (e.g., *Verify Main Navigation Links*).
      ▪ **Test Type**: Select **Manual**.
      ▪ **Description**: Describe the purpose of the test.
3. **Add Test Steps**:
   o Go to the **Test Details** section.
   o Define the test steps as:
      ▪ **Step**: Action to perform.
      ▪ **Data**: Input values (if any).
      ▪ **Expected Result**: What should happen after the step is executed.

Example Test Cases

Test Case 1: Verify Main Navigation Links
- **Summary**: Verify all main navigation links work correctly.
- **Description**: Ensure each link directs to the intended page.

Step	Action	Data	Expected Result
1	Open the website.	URL: https://ayistgroup.com/	Website loads successfully.
2	Click on "Home" in the navigation bar.	-	Home page opens.
3	Click on "Services" in the navigation bar.	-	Services page opens.
4	Click on "R&D Unit" in the navigation bar.	-	R&D Unit page opens.
5	Click on "Contact" in the navigation bar.	-	Contact page opens.

Test Case 2: Submit Contact Form with Valid Data

- **Summary**: Verify contact form submission with valid inputs.
- **Description**: Ensure the form accepts valid data and displays confirmation.

Step	Action	Data	Expected Result
1	Open the Contact page.	-	Contact page loads successfully.
2	Enter valid "Name".	Name: John Doe	Name is entered successfully.
3	Enter a valid "Email".	Email: john.doe@example.com	Email is entered successfully.
4	Enter valid "Phone" and "Message".	Phone: 1234567890, Message: Test	Phone and message fields are populated.
5	Click the "Submit" button.	-	Confirmation message appears.

Test Case 3: Submit Contact Form with Invalid Email

- **Summary**: Verify form validation for invalid email format.
- **Description**: Check the system rejects an invalid email.

Step	Action	Data	Expected Result
1	Open the Contact page.	-	Contact page loads successfully.
2	Enter valid "Name", "Phone", and "Message".	Name: Test User, Phone: 1234567890	Fields are entered successfully.
3	Enter an invalid email.	Email: testuser@	System displays an error for invalid email.
4	Click the "Submit" button.	-	Form does not submit.

Test Case 4: Verify Footer Content

- **Summary**: Ensure the footer displays accurate information.
- **Description**: Verify contact details, links, and social media icons.

Step	Action	Data	Expected Result
1	Scroll to the bottom of the homepage.	-	Footer section is visible.
2	Verify the presence of company details.	-	Company details are displayed correctly.
3	Verify hyperlinks in the footer.	-	All links redirect correctly.

Test Case 5: Measure Page Load Time

- **Summary**: Verify that pages load within 3 seconds.
- **Description**: Check the performance of key pages.

Step	Action	Data	Expected Result
1	Open Google Chrome.	-	Browser opens.
2	Open the website home page.	URL: https://ayistgroup.com/	Page loads within 3 seconds.
3	Navigate to the "Services" page.	-	Services page loads within 3 seconds.

Execution and Reporting

1. **Execute the Test Cases**:
    - Log in to Xray, open each test case, and mark the result for each step as:
        - **Pass**: Step works as expected.
        - **Fail**: Step does not meet expectations.
        - **Blocked**: Test cannot be executed due to an issue.
2. **Log Defects**:
    - If any step fails, click **Create Defect**.
    - Add a summary, detailed description, and screenshots for the defect.
    - Link the defect to the corresponding test case.

Step 5: Review and Generate Reports

- After execution, review:
  - **Test Execution Status**: Number of passed/failed/blocked tests.
  - **Defect Reports**: Analyze reported defects and their severity.
  - **Coverage Reports**: Ensure key features of the website are tested.