**Summary of the Testing Process**

The testing process for the website <https://platinumlandscapemi.com> involved functional, usability, and performance testing. Various test cases were executed to verify the functionality of website features, check for bugs, and assess the performance. The testing was conducted in a Windows 11 environment using Google Chrome versions 126.0.6478.114 and 126.0.6478.115 on 18 June 2024.

**List of Test Cases Executed**

1. **Test Case ID:** TC01
   * **Title:** Verify navigation from home page to About page
   * **Status:** PASS
2. **Test Case ID:** TC02
   * **Title:** Verify navigation from home page to Residential page
   * **Status:** PASS
3. **Test Case ID:** TC03
   * **Title:** Verify navigation from home page to Commercial page
   * **Status:** PASS
4. **Test Case ID:** TC04
   * **Title:** Verify navigation from home page to Project page
   * **Status:** PASS
5. **Test Case ID:** TC05
   * **Title:** Verify navigation from home page to Contact page
   * **Status:** PASS
6. **Test Case ID:** TC06
   * **Title:** Verify navigation to Free Quote Button
   * **Status:** PASS
7. **Test Case ID:** TC07
   * **Title:** Verify navigation from home page to Terms and Conditions page
   * **Status:** PASS
8. **Test Case ID:** TC08
   * **Title:** Verify navigation from home page to Privacy Policy page
   * **Status:** PASS
9. **Test Case ID:** TC09
   * **Title:** Verify navigation from home page to Facebook link
   * **Status:** PASS
10. **Test Case ID:** TC10
    * **Title:** Verify navigation from home page to Instagram link
    * **Status:** PASS
11. **Test Case ID:** TC11
    * **Title:** Verify navigation from home page to LinkedIn link
    * **Status:** FAIL
12. **Test Case ID:** TC12
    * **Title:** Verify navigation from home page to YouTube link
    * **Status:** FAIL
13. **Test Case ID:** TC13
    * **Title:** Verify navigation to Contact Us (call icon beside the phone number)
    * **Status:** PASS
14. **Test Case ID:** TC14
    * **Title:** Verify subscription using a valid email
    * **Details:**
      + **Email Used:** sadia.mehzabin2019@gmail.com
      + **Expected Result:** Successfully submitted email message
      + **Actual Result:** Successfully submitted email message
    * **Status:** PASS
15. **Test Case ID:** TC15
    * **Title:** Verify subscription using an invalid email
    * **Details:**
      + **Email Used:** email@example.web
      + **Expected Result:** No successfully submitted email message
      + **Actual Result:** Successfully submitted email message
    * **Status:** FAIL

**Details of Bugs or Issues Found**

1. **Bug Report 01**
   * **Title:** Subscription with invalid email
   * **Description:** The user is able to subscribe using an invalid email address.
   * **Steps to Reproduce:**
     1. Go to the URL <https://platinumlandscapemi.com/>
     2. Navigate to the bottom of the website
     3. Click on the email address option and enter the email address [email@example.web]
     4. Press the enter button
   * **Environment:** Windows 11, Google Chrome 126.0.6478.114/115
   * **Severity:** Major
   * **Priority:** High
   * **Status:** Fail
   * **Reported By:** Sadia Mehzabin
   * **Date/Time:** 21/06/2024
   * **Comments:** The bug needs to be fixed ASAP.
2. **Bug Report 02**
   * **Title:** The user not able to navigate from home page to YouTube link
   * **Description:** The user is unable to navigate to the YouTube link from the home page.
   * **Steps to Reproduce:**
     1. Go to the URL <https://platinumlandscapemi.com/>
     2. Navigate to the bottom of the website
     3. Click on the YouTube icon
   * **Environment:** Windows 11, Google Chrome 126.0.6478.114/115
   * **Severity:** Major
   * **Priority:** Medium
   * **Status:** Fail
   * **Reported By:** Sadia Mehzabin
   * **Date/Time:** 21/06/2024
   * **Comments:** The bug needs to be fixed.
3. **Bug Report 03**
   * **Title:** Call icon JavaScript popup behavior
   * **Description:** After the user clicks the call icon, the JavaScript popup cannot be removed.
   * **Steps to Reproduce:**
     1. Go to the URL <https://platinumlandscapemi.com/>
     2. Navigate to the bottom of the website
     3. Click on the call icon beside the number +1 5868715330
     4. Observe the behavior
   * **Environment:** Windows 11, Google Chrome 126.0.6478.114/115
   * **Severity:** Major
   * **Priority:** High
   * **Status:** Fail
   * **Reported By:** Sadia Mehzabin
   * **Date/Time:** 21/06/2024
   * **Comments:** The bug needs to be fixed ASAP.
4. **Bug Report 04**
   * **Title:** The user is able to Subscribe by using invalid email
   * **Description:** The user can subscribe using an invalid email address.
   * **Steps to Reproduce:**
     1. Go to the URL <https://platinumlandscapemi.com/>
     2. Navigate to the bottom of the website
     3. Click on the email address option and enter the email address [email@example.web]
     4. Press the enter button
   * **Environment:** Windows 11, Google Chrome 126.0.6478.114/115
   * **Severity:** Major
   * **Priority:** High
   * **Status:** Fail
   * **Reported By:** Sadia Mehzabin
   * **Date/Time:** 21/06/2024
   * **Comments:** The bug needs to be fixed ASAP.

**Performance Testing**

**GTmetrix Report Summary:**

* **Performance Score:** 48%
* **Structure Score:** 75%
* **Largest Contentful Paint (LCP):** 5.5s
* **Total Blocking Time (TBT):** 560ms
* **Cumulative Layout Shift (CLS):** 0
* **Total Page Size:** 1.89MB
* **Total Page Requests:** 175

**Top Issues:**

1. Reduce initial server response time
2. Avoid enormous network payloads
3. Reduce JavaScript execution time
4. Serve static assets with an efficient cache policy
5. Avoid an excessive DOM size

**Suggestions for Improvements**

1. **Improve Subscription Validation:**
   * Implement proper email validation to ensure only valid email addresses are accepted during subscription.
2. **Fix Call Icon JavaScript Popup:**
   * Review and debug the JavaScript handling the call icon to ensure the popup can be properly dismissed.
3. **Fix Navigation to YouTube Link:**
   * Ensure that the YouTube link is correctly set up and functional.
4. **Performance Enhancements:**
   * **Reduce Server Response Time:** Optimize server performance to decrease the time taken to load the initial HTML document.
   * **Minimize Network Payloads:** Compress and optimize images and other resources to reduce the total size of the network payload.
   * **Optimize JavaScript Execution:** Refactor and optimize JavaScript code to reduce the total blocking time and improve page load performance.
   * **Efficient Caching:** Implement caching strategies for static assets to reduce the load on the server and improve repeat visit load times.
   * **Reduce DOM Size:** Simplify the DOM structure to enhance rendering performance.

**Conclusion**

The testing of <https://platinumlandscapemi.com> identified critical issues that need immediate attention, particularly with subscription email validation, JavaScript popup behavior, and navigation to the YouTube link. Additionally, performance improvements are recommended based on the GTmetrix report to enhance the overall user experience.