**PROJECT DEVELOPMENT PHASE**

**Debugging &Traceability.**

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| Date | 13 November 2023 |
| Team Id | 634AF22140249FEB192412EFFC6B4CFF |
| Project name | How to create a landing page in hubspot |

**1.Use the HubSpot Development Tools:**

* HubSpot provides a set of development tools that can assist you in debugging and testing your templates. Familiarize yourself with these tools.

**2. Browser Developer Tools:**

* Utilize browser developer tools (such as those in Chrome or Firefox) to inspect and debug your HTML, CSS, and JavaScript.
* Use the Console tab for logging errors, warnings, and custom messages.

**3. Add Console Logs:**

* Strategically add console.log statements in your JavaScript to log variable values, check execution flow, and identify potential issues.

javascriptCopy code

console.log

('Debugging message:', variable);

**4. Error Tracking:**

* Implement error tracking tools, such as Sentry or Rollbar, to monitor and trace errors on your landing page in a production environment.

**5. HubL Syntax Checker:**

* Use the HubL syntax checker provided by HubSpot to catch syntax errors in your HubL code.

**6. Conditional Debugging:**

* Utilize conditional statements or flags to enable or disable debugging features in your code. This allows you to isolate and focus on specific sections of your code when needed.

**7. Version Control:**

* If you're working in a team, use version control (like Git) to track changes and roll back to previous versions if needed.

**8. Code Reviews:**

* Engage in code reviews with team members to get fresh perspectives and identify potential issues.

**9. Document Code Changes:**

* Add comments to your code explaining complex logic, changes made, or any known issues. This aids in traceability and helps other developers understand your thought process.

**10. Use Descriptive Variable Names:**

* Choose meaningful and descriptive names for variables, functions, and components. This improves code readability and makes it easier to trace issues.

**11. HubSpot Preview and Test Environment:**

* Regularly use HubSpot's preview mode to test your landing page in a controlled environment before publishing changes.
* Set up a test environment to simulate the production environment and catch potential issues early.

**12. Analytics and User Feedback:**

* Integrate analytics tools to monitor user interactions and gather feedback.
* Use user feedback to identify issues and areas for improvement.

**13. Debugging in Different Browsers:**

* Test your landing page in various browsers to catch and fix browser-specific issues.

**14. Performance Profiling:**

* Use browser tools to profile the performance of your landing page and identify bottlenecks.

**15. Documentation:**

* Maintain thorough documentation, including a record of issues and their resolutions. This documentation aids in traceability and knowledge sharing.