Project Development Phase-**||**

**Debugging & Traceability**

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| PROJECT NAME | Creating a landing page in HubSpot |

Debugging and traceability are crucial aspects of creating a landing page in HubSpot, as they help identify and resolve issues in your page's design and functionality. Here are some key considerations for debugging and ensuring traceability in your HubSpot landing page development process:

1. **Browser Developer Tools**: Familiarize yourself with browser developer tools, such as the Chrome DevTools, Firefox DevTools, or Safari Web Inspector. These tools allow you to inspect HTML, CSS, and JavaScript, view network activity, and debug issues directly in the browser.
2. **Console Logging:** Use the browser console to log messages, errors, and warnings from your JavaScript code. Console.log() statements can help you trace the flow of your scripts and pinpoint issues.
3. **Code Validation:** Regularly validate your HTML, CSS, and JavaScript to catch syntax errors and issues early. Tools like the W3C Markup Validation Service and CSS validators can be useful.
4. **Error Handling:** Implement error handling in your JavaScript code to gracefully manage unexpected issues. Use try...catch blocks to capture and handle errors effectively.
5. **Version Control:** Use version control systems like Git to track changes to your landing page code. Commits and branches in your Git repository provide traceability, and you can refer back to previous versions if issues arise.
6. **HubSpot Preview:** Utilize HubSpot's preview feature to test your landing page in different contexts, including various devices and screen sizes, to identify layout and responsiveness issues.
7. **Page Debugging:** HubSpot provides debugging tools specifically for landing pages. You can access these tools within the HubSpot editor to inspect elements, preview mobile and tablet views, and debug specific elements on your page.
8. **Testing Environments:** Develop and test your landing page in a staging or development environment before deploying it to a live production environment. This allows you to catch and fix issues before they affect live visitors.
9. **Record User Actions**: If you're tracking user interactions or form submissions, utilize HubSpot's analytics and conversion tracking features to record and trace user actions.
10. **Documentation:** Maintain clear and concise documentation for your landing page design, layout, and functionality. This documentation can help you and your team understand the page's structure and behavior.
11. **Collaboration:** If multiple team members are involved in landing page creation, ensure that there is clear communication and collaboration on debugging and tracing issues. Use collaboration tools like HubSpot's collaboration features and communication tools (e.g., Slack or Microsoft Teams).
12. **Historical Data:** HubSpot stores historical data and changes, so you can trace back and review previous versions of your landing page content and settings.

By applying these debugging and traceability practices, you can create and maintain HubSpot landing pages that are more reliable and user-friendly. These measures help you quickly identify and address issues, ensuring a smooth user experience and effective marketing campaigns.