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| 1. Introduction    1. Overview   This document introduces the test plan for testing the Advertisement Element being developed by Helio Training for Larry H. Miller’s 1280thezone.com website.   * 1. Objectives & Goals   The success criteria for the project can be measured and reported by defining goals for the planned testing effort.  The main objective is to test & verify that the Advertisement Element displays & behaves correctly for its intended use, and to identify issues causing immediate unintended behaviors or potential future issues.  The goal is to run an extensive test to ensure the Advertisement Element works correctly. If any bugs/errors/unintended-behaviors present themselves, we document with as much information as possible to assist developers in determining the root cause & correcting it as fast as possible to keep the project on track. |

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| 1. References   This section lists all documents & resources that support this test plan. Refer to the actual version/release number of the references as stored in the configuration management system.  References that can be referenced include:   * Helio Development Team * Larry H. Miller Contact person * Comparison webpages using DoubleClick advertisement * (Direct references will be linked after determined) |

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| 1. Test Items   Advertisement Element built by Helio Training Development interns for Larry H. Miller’s 1280thezone.com website with the intended use as a web-based element plug-in. |

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| 1. Features to be Tested   The following features will be tested for each ad on each page of the website:   * Ad appears on the page * Refreshing the page results in ad changing * Ads cycle through repetitively so that an ad seen once will reappear again * Ads remain visible long enough to be consumed, processed, and clicked on before cycling * Ad appears with the correct width and height * Ad appears within the borders of the box on the page * Ad has acceptable resolution quality * Ad colors display correctly * Ad overall appearance conforms to reasonable expectations of professional presentation * Ad maintains intended position as page width is altered on desktop site * Ad maintains intended position as screen resolution is altered on desktop site * Ad maintains intended position as screen zoom is altered on mobile site * Ad maintains intended position as screen zoom is altered on tablet site * Ad maintains intended position as screen orientation is altered on mobile site * Ad maintains intended position as screen orientation is altered on tablet site * Ad audio plays as intended * Ad audio does not play at the same time as any other website audio * Hovering over ad leads to correct behavior * Clicking on ad opens a new tab to the advertiser’s web page * Clicking on ad opens a new tab rather than navigating the current tab * Ad displays properly on desktops using Chrome, Internet Explorer, Firefox, Safari, Opera, Edge, and Brave web browsers * Ad displays properly on mobile devices using Chrome, Safari, Opera Mini, UC Browser, and Android Browser web browsers |

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| 1. Features Not to be Tested   The following features will be disregarded when testing pages of the website:   * Ad content looks exactly like the proofs the advertiser provided * Margins around ad content conform to advertiser’s expectations * Background color resolves as expected * All website elements that are neither the ads nor negatively-affected content adjacent to the ads experiencing ad-caused issues, e.g. overlap, pushing, bleeding over, etc. * The effectiveness of the ad’s visual characteristics, e.g. clashing, ‘popping’, failing to get attention, etc. |

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| 1. Strategy   Overview  To ensure testing is thorough we are going to be using both automated & manual testing. Using the assumed user base test cases, scenarios, & user stories will be created to ensure testing is thorough & relevant.   * 1. User Base   The assumed user base are sports fans and those leaning towards sports fandom. Assumed age range is from teenager to senior (heavy focus on young adult & older). Users are assumed to be primarily Utah-based sports fans, with an understanding that a significant portion will also be Utah fans located outside of Utah. (As of now international locations not being considered)   * 1. Testing Types & Methods   Manual testing to be done in person, by clicking through the application or interacting with the software and APIs with the appropriate tooling.  Automated testing will be a key component of continuous integration and continuous delivery while helping to scale your QA process as you add new features to your application.   * Browser Stack: will be used for manual testing to test compatibility on multiple browsers & devices * Ghost Inspector: will be used to perform manual & automated tests |

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| 1. Criteria    1. Passing Criteria   For behaviors, functions, features, durability, software, & other tests to meet passing criteria it needs to meet or exceed the intended/correct specifications, requirements, & expectations of the product element.   * 1. Failing Criteria   During testing if any behaviors, functions, features, durability, software, or other tests do not meet the specifications, requirements, & expectations the test will be considered a “Fail”. |

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| 1. Suspension Criteria    1. Overview   Any situation which impedes the ability to continue testing.   * External dependent systems are unavailable during execution. * A defect is introduced that invalidates any further testing. * Critical deployment deadline is missed so that the client will not accept delivery even if all testing is completed. * A holiday, act of nature, or facility failure shuts down both development and testing.   1. Resumption Criteria   When the problem that caused the suspension has been resolved & testing activities can be resumed.   * The external dependent systems become available again. * When a defect fix is successfully implemented, and the Testing Team is notified to continue testing. * The contract is renegotiated with the client to extend delivery window. * The shut-down period ends. |

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| 1. Risk Analysis  |  |  |  | | --- | --- | --- | | Risk Analysis | Probability | Impact | | Start of the testing delayed beyond start date due to design tasks | medium | medium | | Advertiser provides file in a format that behaves inconsistently | low | high | | The server hosting the ad experiences problems | low | high | | Developers make changes that affect the ad after testing is complete | medium | medium | | New ad is uploaded during the test cycle | medium | high | | Scope not defined due to new relationship, inexperienced testers, etc. | medium | medium | | Inexperience of testers allows bug to pass undetected | medium | medium | | Power outage or internet connection interrupts testing | low | high | | All the never-tried-before factors allow bugs to pass undetected | medium | medium | |

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| 1. Schedule   (Waiting on additional information to determine Schedule for testing of the Advertisement Element for Larry H. Miller)   |  | | --- | | 1. Test Deliverables   What is to be delivered as part of this plan?   * Test plan document. * Test cases. * Test design specifications. * Tools and their outputs. * Error logs and execution logs. * Problem reports and corrective actions.   One thing that is not a test deliverable is the software itself that is listed under test items and is delivered by development. |  |  | | --- | | 1. Approvals | |