This document will instruct and direct you to complete all of the evidence you will need to meet the Achieved level criteria for the following standard.

| **Number** | **Version** | **Title** | **Credits** | **Assessment** |
| --- | --- | --- | --- | --- |
| AS91893 | 1 | Use advanced techniques to develop a digital media outcome | 4 | Internal |
| **Achievement Level Statement** | | | | |
| Use advanced techniques to develop an informed digital media outcome. | | | | |

Please enter the requested evidence in the areas provided.

**2.1 Using information from testing procedures to improve the quality and functionality of the outcome**

Previous Testing (your observations)

The video testing from stage 1 will have highlighted areas of the solution that could be developed further. Use the table below to identify at least 3 of these possible changes that will consider making. (you can add more rows if you think you need them).

|  |  |  |
| --- | --- | --- |
| **#** | **What change will you make?** | **Why do you think this is needed** |
| 1 | Add more content to the page, including advertising to be more appealing, as well as changes to layout and aesthetic to attract the viewers attention. | Plain white text in default serif font can be quite boring to look at. Big text with lots of thematic colours etc can be very enticing if done correctly. Also everyone has a GPU.. right? |
| 2 | Particle effects | Aesthetic and fits the theme to have stars etc.. floating around. Also everyone has a decent CPU + modern browser.. right? |
| 3 | Buttons on the carousel | Accessibility and also hints to user that the element is scrollable |

User Feedback (other observations)

Get two people to use version 1 of your solution and ask them to list 3 changes each that they think would improve it.

|  |  |  |
| --- | --- | --- |
| **#** | **Person 1 – Name : James Wright** | **Person 2 – Name : Matthew Currie** |
| 1 | Make carousel more obvious because it is easy to miss and think its just a single image | Make the links have more contrast for users with accessibility issues |
| 2 | Make font not ugly for readability | More details about the theme |
| 3 | Make images not massive image size to load faster | Add more content, some pages have big gaps at bottom |

**2.2 The Changes Made**

Now that you have identified a range of changes you **could** focus on, select at least 3 that you **will** focus on and try to implement them.

Remember to copy the entire solution before making changes so that you do not delete the original versions!

Once attempted, complete the table below to indicate what you have done and how successful you believe you have been. (you can add more rows if you think you need them).

|  |  |  |
| --- | --- | --- |
| **#** | **What change did you attempt?**  **How did you do this?** | **How successful were you?**  **Why is this change better?** |
| 1 | Add more content to the page, including advertising to be more appealing, as well as changes to layout and aesthetic to attract the viewers attention. I added gradient text with very stereotypical marketing to attract the users attention and make them feel FOMO and wish to attend. | I think anyone that looked at both would immediately find the new designs much nicer and better, which is a success, as I think this would lead to more interest and thus more sales in to the event. |
| 2 | Particle effects using JS to dynamically generate images at the side of the page, so that it isn’t too distracting or covering content, but contributes to the aesthetic. | They work well but also don’t touch the code it is broken (CSS 3D is weird, hard to tell what’s going on). They contribute to the aesthetic and definitely give the feel that the website is staged in 3D space. |
| 3 | Buttons on the carousel using buttons to scroll the carousel. | Ez enough, the code was almost already there from prior tests. Buttons work and fit in to aesthetic quite well, also work with accessibility hotkeys (tab), these buttons are great for accessibility and hinting that the area is able to be scrolled. |
| 4 | HUGE Performance improvements for particle loading, which requires many DOM updates due to dynamic addition of many image elements (even though these elements shouldn’t cause reflow). Big thx to DocumentFragments (see [html - Append multiple items in JavaScript - Stack Overflow](https://stackoverflow.com/questions/36798005/append-multiple-items-in-javascript)) | Before:  After:    This is just better. Nothing more. |

# 2.3 How Using Conventions Improved the Outcome

In the table below identify the conventions you have followed and explain how their use has improved the quality of your solution. Consider aspects such as the maintenance and usability in addition to the visual design of the solution.

|  |  |
| --- | --- |
| Convention Used | HOW has using this convention helped improve the quality of your solution? |
| *e.g. Naming conventions* | *e.g. By having all of the things use lower case with kebabs kebab-case evrything is consistent and no problems when using other os* |
| Always Declare Document Type | It changes almost nothing but is just convention |
| Use Lowercase Element Names  Use Lowercase Attribute Names | It is readable and don’t look like SQL |
| Close All HTML Elements | The code is readable and no weird browser parsing |
| Always Quote Attribute Values | It looks nice when I read the code |
| Always Specify alt, width, and height for Images | Sometimes this don’t really work for me thanks to dynamic loading and stuff but a lot of my images are position:absolute so don’t affect document flow anyways and don’t force a reflow (I use perfo0rmance tab in devtools I AM COOOL) |
| No Spaces around Equal Signs in attributes | I can read the code yaay |
| Avoid Long Code Lines | I have vs code formatter ~~I AM COOL~~  Also I can read it |
| Blank Lines and Indentation  Do not add blank lines, spaces, or indentations without a reason.  For readability, add blank lines to separate large or logical code blocks.  For readability, add two spaces of indentation. **Do not use the tab key.** | The tab key has much benefited the file size of my solution and greatly reduced bandwidth usage and upload times to online version control github as spaces use double / 4x as much wadawadawada.  Other whitespace is cool and I can actually read the code |

# 2.4 Address relevant implications.

Achievement at this level requires you to **ADDRESS** a number relevant implications in the solution you created. Please answer the questions below for relevant implications listed. You are allowed to change the implications listed if you wish and a larger list of these is available in the main assessment document.

|  |  |  |
| --- | --- | --- |
| Relevant Implication | What does this relate to?  Why is it important?  Why should you need to consider it? | HOW did you address this implication in the development of your solution? |
| Aesthetics | This relates to the way things look. It is important to enhance the user experience. Users will be much happier using a clean, organised setup compared to a mess. It therefore needs to be considered so that users of the website will be attracted to its design and be more likely to consider going to the formal. | This mostly affects stylesheets (the CSS) as these store the majority of aesthetic and stylistic changes. To address this I would have to make changes to the styles so that they appeal to the users and fit the theme of the formal. |
| Functionality | This relates to how well something can function – it needs to be able to do its job, and well. It is important because most of the time, the functionality of something is the most important aspect. E.g. If you require a system to collect details of interested users, it needs to work, otherwise it defeats the point of having such a system in the first place. | This will probably mostly affect javascript, as well as any php. The most important functionality aspect is probably the user interest form (todo) / mailto link as the user needs this to be able to register their input. Functionality of the rest of the styles on the page is also important as it affects the image that is portrayed to the user – a broken webside doesn’t giv a good look. |
| privacy | This relates to storing other peoples personal information. It is best not to store anyone’s personal information unless you need it, and to warn your users of the information you are storing about them. It needs to be considered because you don’t want to be the one who accidentally leaks thousands of user’s information if someone gets access to your database. | Not currently a concern, but I am considering using php + sql to make a database to store user details for users who have registered their interest. If this happens, privacy will be a concern as we are collecting user information and storing it ourselves. Therefore it would be a good idea to warn users of the risks and try to keep their information as secure as possible (lets not have any SQL injection plz…) |
| Health and safety | This relates to not dying while making the website. It is important, and I need to consider it, because I don’t DIE and become unable to make website. Other than that health and safety really doesn’t matter too much – HR team will take care of that, and we don’t listen to them anyways. | This affects the development process.. I should consider my personal health while developing this. Posture is a small concern but can lead to large problems in the future, but things like the health and safety of the computer I am using is much more important – if the computer dies I cant use it.. so don’t spill water on it it wont like that. I can address this by considering all potential health and safety risks etc. |

**2.5 Informed Testing**

You now need to test the 2nd version of your solution. This time we need to focus more on the accuracy of what you created so we will need to complete a formal test plan. Create, Predict and Apply a range of tests that show your solution works correctly. A real-world test plan will likely have 1000s of test in it, but in this instance we only need a handful for each element you created (20-30 in total). **Extra Help Sheet Available**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test No. | Test (include test data if necessary) | Expected Result | Actual Result | Test Result |
| 1 | HTML Validator  <https://validator.w3.org/> | fine | Validator DON’T SUPPORT PHP FILE  My <sections> don’t \*really\* need headings so ima break convention.. dont tell anyone. Other than that no problems | Pass (except sections without headings.. but I think my use case is valid plus its my code anyways plus theres too many to change and im lazy) |
| 2 | CSS Validator  https://jigsaw.w3.org/css-validator/ | fine | Validator is old and don’t support modern CSS but otherwise fine | Pass |
| 3 | Contrast Checker  [WCAG - Contrast Checker](https://contrastchecker.com/) | Probly not good everythin g is purple |  | Fail  Ok but like no blind people are going to formal anyway right? + screen readers |
| 4 | Colorblind sim  https://www.color-blindness.com/coblis-color-blindness-simulator/ | fine | Everything is fine and readable, just look weird | Pass |
| 5 | Do the pages behave as expected on different screen sizes? | Should work on most common screen sizes | Works mostly, breaks nav at <330px | Pass (no one use <330px anyways.. right?) |
| 6 | Does the content fit on the page as it should? | yes | Works mostly, breaks nav at <330px, sometimes empty gap at bottom of page but idk if that bug or feature.. it just is, thanks to css 3d being weird | Pass |
| 7 | Are all the images being displayed?\ | yes | yes | Pass |
| 8 | Images load in reasonable time and arnt 4000 PIXELS wide >:( | yaa | yaa | Pass |
| 9 | Particles load in reasonablew time | yaa | Yaa now thx to document fragments | Pass |
| 10 | Particles unload when outside of screenspace after resize | yaa | yaa | Pass |
| 11 | Particles regen when screen resize bigger | Yaa in final, not impl yet | no | Not yet |
| 12 | Webpage is generally performant | Mostly | Mostly, currently largest concern is recalculating css styles during/after JS changes to dom/ css variables. Most expensive atm is mousemove/cause updates to background-position property in some elements.  As seen: | Mostly pass |
| 13 | Scroll | Elements should have parallax effect based on their z-index | <- | Pass |
| 14 | Carousel buttons | Should click to go prev/next image | <- | Pass |
| 15 | Carousel buttons | should be able to use tab/enter to go prev/next | <- | Pass |
| 16 | Carousel Buttons | Should change size and background on hover/keyboard focus | <- | Pass |
| 17 | Headers with moveable-background | Should have gradient background that moves with mouse | <- | Pass |
| 18 | All nav links | Should direct to correct page | <- | Pass |
| 19 | Other links | Should appear seperatre from other content using underline, should direct to correct page | <- | Pass |
| 20 | Flowing content | Should appear directly after prev box, and stagger left/right as direcfted | <- | Pass |
| 21 | Left/right aligned content | Should center on smaller <900px displays | <- | Pass |
| 22 | Navbar | Should stick links to top but logo dissapears | <- | Pass |
| 23 | Particles | Should rotate with time | <- | Pass |
| 24 | Carousel buttons | Should only slide into view on hover or keyboard focus | <- | Pass |
| 25 | Particles | Shouldn’t shoot of to infinity in weird directions | Not anymore in important directions at least.. I think.. used to shoot of downwards at one point (130000px long page at one point), shot off to left as well.. now no more visible shooting off but I suspect that it might be shooting upwards.. css 3d is weird but it looks fine so ok | Pass (ish) |

# 2.6 The Evidence (Video Recording v2)

Create a 2nd video recording showing your solution in operation. Show the full operation of the solution as before but be sure to spend time demonstrating the changes you made.

Again, if your chosen technology has any form of validation service available (e.g. html validation) demonstrate this in use as well to both show how effective your use has been and to highlight any areas you may need to develop further.

Take your time and give the viewer of this video and opportunity to fully see your database in action. Save your video recording in a suitable file format (e.g. wmv or mp4 – NOT an ispring file)

|  |
| --- |
| **Below tell us the name of this file and where it is stored.** |
| In the folder.. if u really want it might be in H:/2023/Media/Assessment/html2023/docs/V2.mp4 or smth like that.. alternatively, I might have made the github repo public if im not lazy.. which is at [wntiv-main/html2023 (github.com)](https://github.com/wntiv-main/html2023) otherwise its in the handed in zip idk |