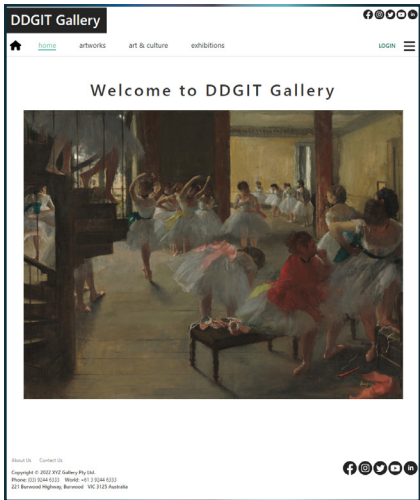


Lighthouse Actions



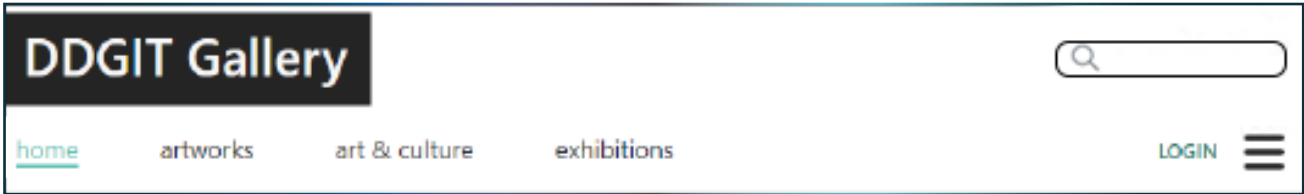
After examining the Lighthouse report, I have identified several significant improvements that I advise be implemented across the Art Gallery website. However, it's crucial to keep in mind that not all of Lighthouse's findings require immediate action. Some of the suggestions may be excessive and could reduce productivity without providing significant benefits. Additionally, certain scripts may be necessary for the security and functionality of the website. Therefore, it's essential to interpret the report carefully and only take necessary actions to address the identified issues.

- ❑ Navigation – To create space for a responsive search field, I recommend removing the company's social media icons from the header, as they are already present in the footer. This will enable us to add a search field that will be more useful for visitors to our site, improving the user experience. While the social media icons will still be available in the footer, they can also be promoted in events and advertising. Under best practice these social media elements need to be resized to allow reflow without overlapping.

Sizing of tap targets

https://developer.chrome.com/docs/lighthouse/seo/tap-targets/?utm_source=lighthouse&utm_medium=devtools

- ❑ Navigation – To improve the navigation layout, I suggest removing the Home icon as it is redundant with the text link and logo, all of which currently lead to the home page. By doing so, we can free up valuable space in the navigation bar and create a more visually appealing design with better use of white space. I have created a mock-up to illustrate this suggestion.
- ❑ Navigation – Active page indication and hover/event changes, this will aid user experience in identifying their location and being aware of available links, this will improve the overall navigation for the user.
- ❑ Navigation – Privacy Statement – an essential legal and ethical component. Art Gallery requires that the privacy policy be added to the footers to help establish trust with users, protect against legal ramifications, and outline the Art Galleries commitment to data privacy best practices.



- ❑ <html> element does not have a [lang] attribute this improves interpretation of content by users in different locales

```
<html lang="en"><head>
```

Test: on my local version of the art-gallery I added this code and re-ran the report bringing the score from 96 to 98

- ❑ Link naming convention – Links do not have a discernible name, this may enhance the experience for users of assistive technology, like a screen reader.
- ❑ Site Map – this is an important tool for improving the visibility, accessibility, and user experience of the art gallery website. It can help track updates, and improve the website's search engine rankings.
- ❑ Meta tags – format HTML to enable crawlers to better understand our apps content, currently Art Gallery has no meta description. For exampe we need to the head section: <meta name="description" content="Author: A.N. Author, Illustrator: P. Picture, Category: Books, Price: \$17.99, Length: 784 pages">

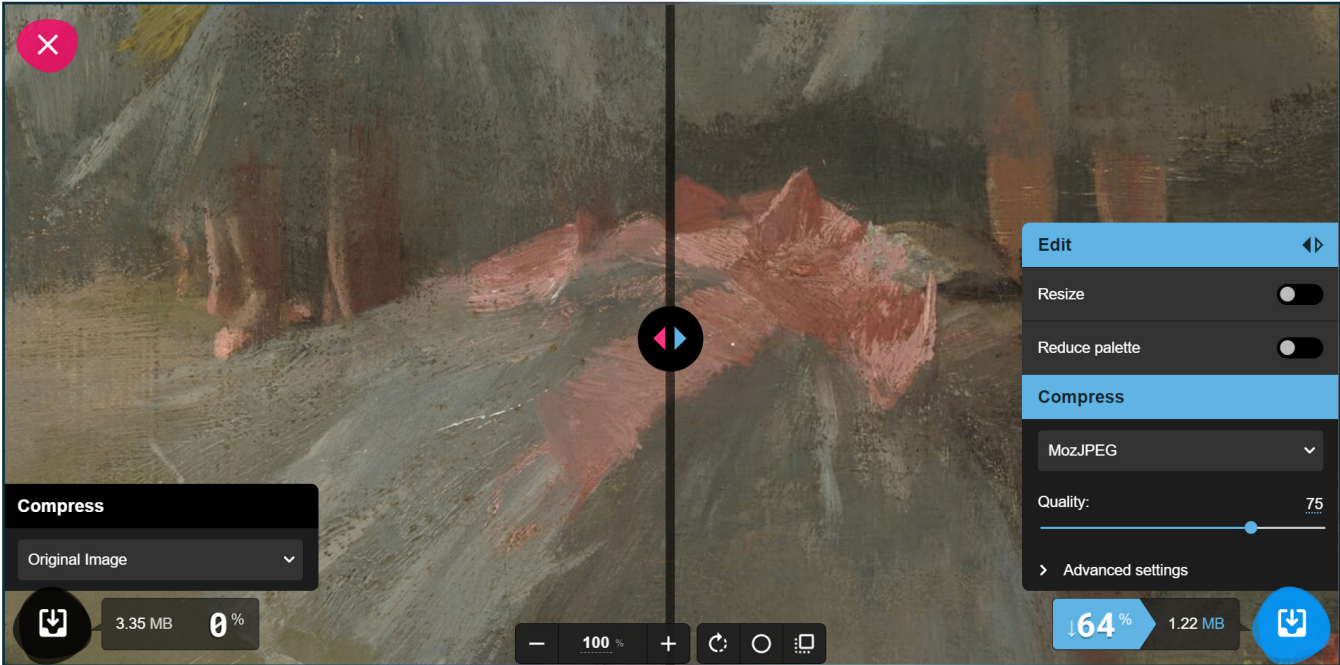
Test: on my local version of the art-gallery I added a meta description and re-ran the report bringing the score from 88 to 97
<meta name="description" content="Thoth-Tech, brings you Art Gallery an Indigenous Online Art Gallery">

- ❑ Brand – CSS Action items include meta theme, start_url and splash screen addition

- ❑ Mobile Friendly – targets are not sized appropriately for mobile friendly users, no zoom or pinch options
- ❑ Mobile Friendly – missing apple-touch-icon
- ❑ Performance – Optimise Images, Current landing page image size 3.18MB. Presets for Art Gallery should be set up in photoshop for best practice for the site, alternates optimisers can be found online but will not be best practice for bulk optimisation. For the purpose of this example I have used the online editor squoosh.app/editor as you can see the image has no loss of quality at a 1/3 of the size. As the gallery will host a large qty of images, it would be advised to implement pre-loading of images;

How to pre-load images

https://web.dev/optimize-lcp/?utm_source=lighthouse&utm_medium=devtools#optimize-when-the-resource-is-discovered



Test: on my local version of the art-gallery I optimised the image and re-ran the report bringing the score from 27 to 29

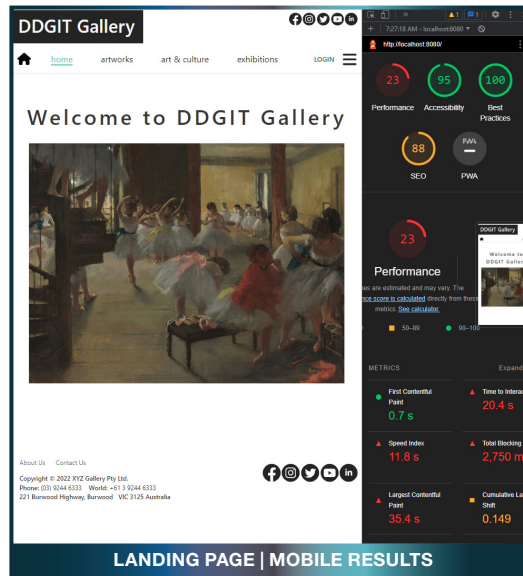
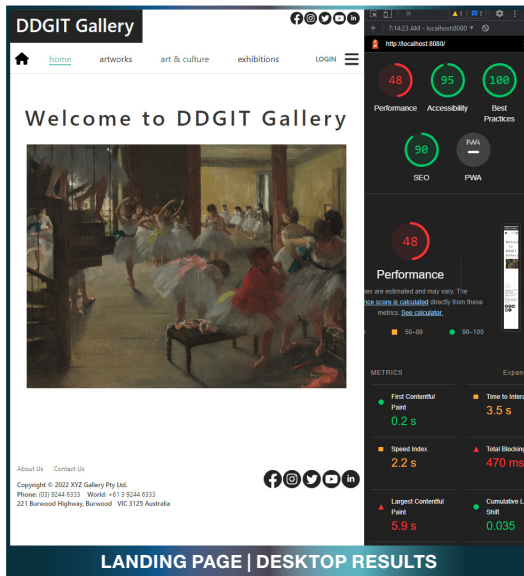
- ❑ Performance – investigate what is essential and what is necessary for the site, can this javascript be adapted and reduced in size? This portion of javascript has also been flagged as missing source maps and under Best Practice advised to conduct security checks for possible XSS attacks. Noted file: <http://localhost:8080/js/chunk-vendors.js>

How to avoid large payloads:

https://developer.chrome.com/docs/lighthouse/performance/total-byte-weight/?utm_source=lighthouse&utm_medium=devtools

■ Avoid enormous network payloads — Total size was 3,556 KiB	
Large network payloads cost users real money and are highly correlated with long load times. Learn how to reduce payload sizes . [LCP]	
URL	Transfer Size
/js/chunk-vendors.js (localhost)	3,048.6 KiB
/js/app.js (localhost)	354.3 KiB
/img/the_dance_class_artist_052023.27639202.jpg (localhost)	146.8 KiB
/favicon.ico (localhost)	5.2 KiB
http://localhost:8080	0.9 KiB

Art Gallery | Lighthouse Project/Front end enhancement



What the Lighthouse report tells us

Looking at the figures alone you could assume the site is pretty perfect, Accessibility (links and HTML elements in the back-end) and Best Practice are scores over 90 which is what a good site strives for. However we currently have minimal content on board so as the project builds this will need to be regularly monitored, applying procedures now for naming conventions, navigation and links will mean less re-work in the future, so the site evolves at a professional standard. Interestingly our one page image has been flagged as 'enormous network payload' - this would be good to avoid when the Art Gallery will have no limit of images from various artists.

Our Next steps to improve

HTML: Add language to each page head (lang-en) this improves page interpreters (specify location), Lighthouse provides a variety of methods to Optimise the sites images, this will be beneficial to use when importing batch images when artwork is added from new Artists.

Link to Google Image Optimiser

https://developer.chrome.com/docs/lighthouse/performance/uses-optimized-images/?utm_source=lighthouse&utm_medium=devtools.

Images: Add alt-tags for images, optimise images to improve site performance, apply clear naming convention

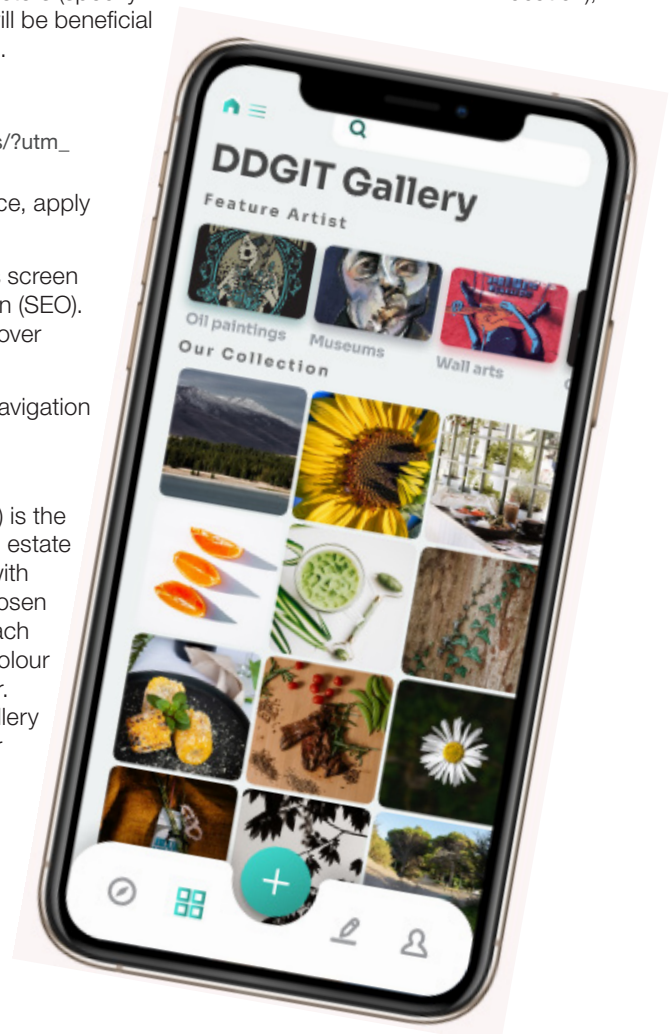
Links: for page links and images use clear naming conventions this improves screen reader applications and page crawlers to increase Search Engine Optimisation (SEO). Distinguish links clearly for the end user (About Us and Contact Us have no hover change that is noticeable only mouse icon change).

Tab Order: Check the tab order includes items that are hidden in the page navigation

How can we enhance the visual impact and flow of this page for our audience

We can clean up the landing page for the user, DDGIT Gallery (company logo) is the Home link, so is the HOME icon and text HOME this is taking up valuable real estate we can remove the icon. Remove the social links from top right and replace with responsive Search bar, so that visitors to the gallery can easily locate their chosen artist, art theme, art location etc. Replace Hero image with artwork grid for each artist, these will also be links to that artists direct page on the site – a mono colour scheme could work well here and on hover change to image swatch to colour. Welcome to DDGIT Gallery, could have more content around why DDGIT Gallery – what this represents what is this site for, and a monthly feature artist smaller image and link to that article within the site and a Welcome to Country and Acknowledgment of Country.

Art Gallery mock up after suggested refinements, example →



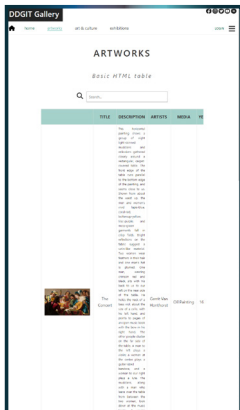
Page Specific

HOME



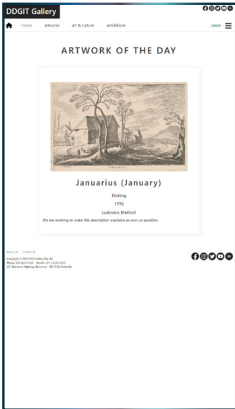
- ❑ Hero Image – Replace Hero image with artwork grid for each artist, these will also be links to that artists direct page on the site – a mono colour scheme could work well here and on hover change to image swatch to colour.
- ❑ What is this? Welcome to DDGIT Gallery, more content around why DDGIT Gallery, what this represents what is this site for, a monthly feature artist smaller image and link to that article within the site and a Welcome to Country and Acknowledgment of Country.

ARTWORKS



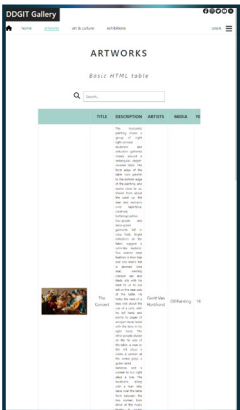
- ❑ Image alignment / responsive grid not tabular style
- ❑ Inset Magnifier (search) / This search will be replaced by navigation search
- ❑ Link naming convention
- ❑ Optimise Image(s)
- ❑ Alt tags

ARTWORK OF THE DAY



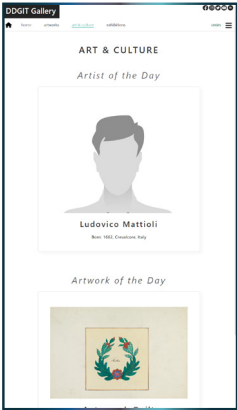
- ❑ Active page indication
- ❑ Optimise Image
- ❑ Image placeholders
- ❑ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

LIST OF ARTWORKS



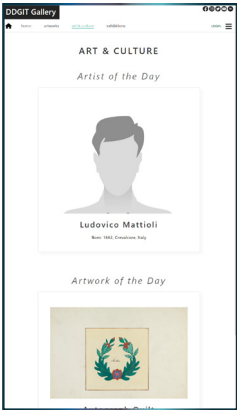
- ❑ Active page indication
- ❑ Identify the difference between Artworks page and List of Artworks, remove if repeat, the sitemap will help to indicate unnecessary or replicated pages.
- ❑ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

ART & CULTURES



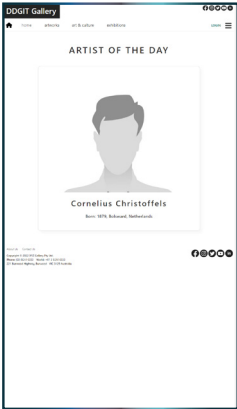
- ☐ Optimise and apply placeholder images
- ☐ Active page indication
- ☐ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

SYMBOLS



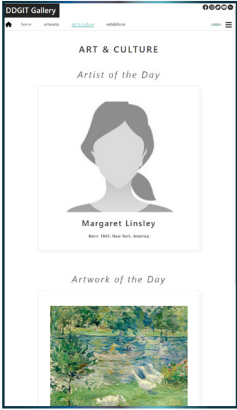
- ☐ Confirm if this is a replication of the Art and Culture page or provide clearer content and placeholder images to indicate the purpose of this page.
- ☐ Active page indication
- ☐ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

ARTIST OF THE DAY



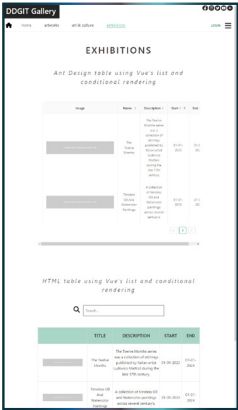
- ☐ Confirm the difference between Artwork of the Day and Artist of the day, possibly reference to each other on the page.
- ☐ Incorporate optimised images and placeholder text
- ☐ Active page indication
- ☐ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

ABORIGINAL ART FACTS



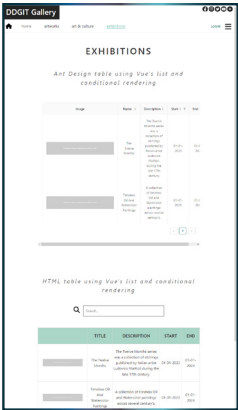
- ☐ Confirm if this is Art facts or Artifacts
- ☐ Incorporate artists links to generate organic traffic
- ☐ Create optimised image placeholders and placeholder text to identify its purpose and differentiate from Artist of the day page.
- ☐ Active page indication
- ☐ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

EXHIBITIONS



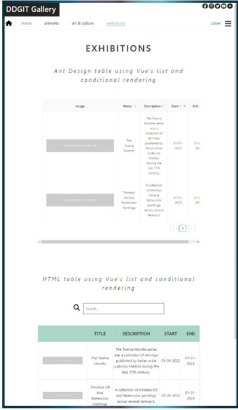
- Placeholder text and optimised images
- Identify if table is the best display mechanism for the content
- Search field magnifier inset (possibly replaced by the navigation search)
- Active page indication
- Tab order, improve accessibility, user experience and compliance with guidelines and regulations

CURRENT EXHIBITIONS



- Confirm if this is a replication of Exhibitions, if so remove replication
- Add placeholder text and optimised images, and description to showcase what this page is about and difference between it and Exhibitions page
- Search field magnifier inset (possibly replaced by the navigation search)
- Active page indication
- Tab order, improve accessibility, user experience and compliance with guidelines and regulations

PAST EXHIBITIONS



- Add placeholder text and optimised images, and description to showcase what this page is about and difference between it and Exhibitions page
- Search field magnifier inset (possibly replaced by the navigation search)
- Active page indication
- Tab order, improve accessibility, user experience and compliance with guidelines and regulations

ABOUT US



- Add placeholder text and optimised images, and description to showcase what this page is about and difference between it and other pages
- Description around the why (purpose)
- Active page indication
- Tab order, improve accessibility, user experience and compliance with guidelines and regulations

CONTACT



- ☐ Add placeholder text and optimised images, and description to showcase what this page is about and difference between it and other pages
- ☐ Contact form
- ☐ Description around the why (purpose)
- ☐ Active page indication
- ☐ Tab order, improve accessibility, user experience and compliance with guidelines and regulations

LOGIN

Enter your login details to sign in, or click 'Sign up' to create an account.

Email

This field is required

Password:

This field is required

Log In

Sign up

- ☐ Forgotten password option
- ☐ Alignment and spacing of form fields and prompts (increase white space, left align)

SIGN UP

New Account

Enter your details below to register a new account.

First Name:

Last Name:

Email

Password:

Password must be at least 14 and no more than 24 characters long.

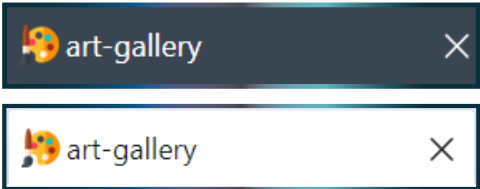
Confirm Password:

Cancel

Sign Up

- ☐ Already a member option
- ☐ Alignment and spacing of form fields and prompts (increase white space, left align)
- ☐ Consistent design elements as other site forms (horizontal rule or no horizontal rule)
- ☐ Confirm Captcha is incorporated on all site forms

FAVICON



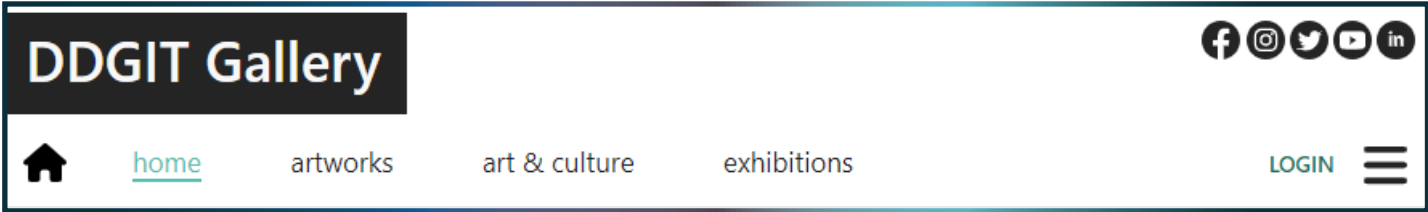
- ☐ Market for indigenous artist to create unique logo and favicon for the Art Gallery

SITE URL'S

FB: <https://www.facebook.com/DeakinUniversity>
INSTA: <https://www.instagram.com/deakinuniversity/>
TWITTER: <https://twitter.com/deakin>
YOUTUBE: <https://www.youtube.com/user/deakinuniversity>
LINKED IN: <https://www.linkedin.com/>

- ☐ Identify if all social accounts will be created for the Art Gallery, register names to confirm availability of links and update with correct links

Current



Modifications

