

Test Project

Module C Lyon Heritage Sites

Web Technologies

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測試專案

模組 C 里昂遺產地點

網頁技術

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Contents

| | |
|---|---|
| Introduction..... | 3 |
| Description of project and tasks | 3 |
| Listing content..... | 4 |
| Accessing content pages..... | 4 |
| Rendering a heritage site web page..... | 5 |
| Tags | 7 |
| Instructions to the Competitor | 8 |

目錄

| | |
|------------|---|
| 簡介 | 3 |
| 專案與任務說明 | 3 |
| 清單內容 | 4 |
| 存取內容頁面 | 4 |
| 呈現文化遺產網站頁面 | 5 |
| 標籤 | 7 |
| 對參賽者的說明 | 8 |

Introduction

Welcome to Lyon. This vibrant city is known for its historical significance and architectural beauty. In this project, some editors wrote some articles to introduce notable heritage sites in Lyon, France. Each article is written in .html or .txt format, with a front-matter embedded at the beginning of each article for meta information. These files are stored in a folder called "content-pages". Some article files may be stored in sub-folders, or nested sub-folders.

There is one "images" folder under "content-pages" folder. All image path mentioned in these articles and all relative to this images folder. That means no images folder inside nested sub-folders. It means when referring to any image names in articles inside sub-folders, these images are all refer to this images folder under the "content-pages" folder.

You are asked to create a website to host these articles. Each article becomes "page", that we refer in the following document. In order to keep the current article writing workflow, we will keep the existing structure of "content-pages" folder unchanged.

In this module, we create a site that lists and loads these files and sub-folders. The site reads these static files from a "content-pages" folder and display the content as web pages. The naming convention for the pages is YYYY-MM-DD-title.txt, or YYYY-MM-DD-title.html.

The web site is reachable at http://wsXX.worldskills.org/XX_module_C/

XX is your seat number.

Description of project and tasks

There is no need to use database in this project. The content is stored in the "content-pages" folder, or sub-folders inside it. Anyone can access the home page and the heritage sites page. When accessing the home page, there should be a list of all pages and sub-folders.

URL Routes and mapping

There are URL routes definition for listing content folder, pages, and querying tags.

The URL to each page or sub-folder is defined as following. XX is your seat number.

/XX_module_c/ shows the index listing.

/XX_module_c/heritages/2024-09-01-example-page shows the page for 2024-09-01-example-page.html or 2024-09-01-example-page.txt

/XX_module_c/heritages/sub-folder-name lists the pages and folders of the specific sub-folder.

/XX_module_c/heritages/sub-folder-name/2024-09-10-welcome-to-lyon shows the page of 2024-09-10-welcome-to-lyon.html or 2024-09-10-welcome-to-lyon.txt in the "sub-folder-name" folder.

/XX_module_c/heritages/sub-folder-1/sub-folder-2/2024-09-10-welcome-to-lyon shows the page of 2024-09-10-welcome-to-lyon.html or 2024-09-10-welcome-to-lyon.txt in the "sub-folder-1/sub-folder-2/" folder.

The URL for tags querying is defined as following.

/XX_module_c/tags/tag-name-here shows a page that lists all the pages that contains given tag "tag-name-here"

Note: The paths above are relative to *http://wsXX.worldskills.org*

簡介

歡迎來到里昂。這座充滿活力的城市以其歷史意義與建築之美聞名。在此專案中，有些編輯撰寫了數篇文章來介紹法國里昂的著名文化遺產地點。每篇文章以 .html 或 .txt 格式撰寫，且每篇文章開頭都嵌入了用於描述元資訊的 front-matter。這些檔案儲存在名為 "content-pages" 的資料夾中。部分文章檔案可能儲存在子資料夾或巢狀子資料夾中。

在 "content-pages" 資料夾下有一個名為 "images" 的資料夾。這些文章中提到的所有圖片路徑皆相對於此 images 資料夾。也就是說，在巢狀子資料夾內並不存在其他 images 資料夾。這表示當在子資料夾內的文章引用任何圖片名稱時，這些圖片皆參照位於 "content-pages" 資料夾下的 images 資料夾。

你需要建立一個網站來發佈這些文章。每篇文章將成為下文所稱的「頁面」。為了維持目前的文章撰寫工作流程，我們會保持 "content-pages" 資料夾的既有結構不變。

在此模組中，我們建立一個列出並載入這些檔案與子資料夾的網站。該網站從「content-pages」資料夾讀取這些靜態檔案，並將內容顯示為網頁。頁面的命名慣例為 YYYY-MM-DD-title.txt 或 YYYY-MM-DD-title.html。

該網站可透過 http://wsXX.worldskills.org/XX_module_C/ 存取。

XX 為你的座位號碼。

專案與任務說明

這個專案不需要使用資料庫。內容儲存在「content-pages」資料夾，或其中的子資料夾。任何人都可以存取首頁和古蹟頁面。當存取首頁時，應該列出所有頁面和子資料夾的清單。

URL 路由與對應

有用於列出內容資料夾、頁面以及查詢標籤的 URL 路由定義。

每個頁面或子資料夾的 URL 定義如下。XX 是你的座位號碼。

[/XX_module_c/](#) 顯示索引清單。

[/XX_module_c/heritages/2024-09-01-example-page](#) 顯示 2024-09-01-example-page.html 或 2024-09-01-example-page.txt 的頁面

[/XX_module_c/heritages/sub-folder-name](#) 列出該特定子資料夾的頁面和資料夾。

[/XX_module_c/heritages/sub-folder-name/2024-09-10-welcome-to-lyon](#) 顯示 "sub-folder-name" 資料夾中 2024-09-10-welcome-to-lyon.html 或 2024-09-10-welcome-to-lyon.txt 的頁面。

[/XX_module_c/heritages/sub-folder-1/sub-folder-2/2024-09-10-welcome-to-lyon](#) 顯示位於 "sub-folder-1/sub-folder-2/" 資料夾中名為 2024-09-10welcome-to-lyon.html 或 2024-09-10-welcome-to-lyon.txt 的頁面。

標籤查詢的 URL 定義如下。

[/XX_module_c/tags/tag-name-here](#) 顯示一個頁面，列出所有包含指定標籤 "tag-namehere" 的頁面

注意：上述路徑是相對於 <http://wsXX.worldskills.org>

Filename convention

The filename contains the date, and the title in slug form. It is "YYYY-MM-DD-title-in-lower-case-with-hyphens.html", or ".txt".

The first part of the filename is in YYYY-MM-DD format, YYYY for the year in 4 digits, MM for months in 2 digits, and DD for day in 2 digits.

The second part of the filename is the title of the file, in slug form. That is a lower case of the title with all spaces replaced by hyphens.

Here are some sample filenames:

- 2024-09-01-example-page.html
- 2024-10-20-greatest-lyon-heritage-site.html
- 2025-01-01-a-post-for-future-posting.txt

Listing content

When listing the content, the list shows the title, and the summary. Clicking either on the title or summary will link to that single content.

The list should not list future pages, which the date is in the future, after today.

The list also should not list pages in draft state, which the draft is "true" defined in the front-matter of the file.

The list should also hide pages without any dates defined. That is when the first 11 characters is not in the format of "YYYY-MM-DD-".

Aside from the pages, the list also lists and links to sub-folders. When click on the sub-folder name, the web lists the content within the sub-folder. That is the pages and sub-folders inside that sub-folder.

Ordering of content listing

The list lists sub-folders first, then it lists the content pages. The sub-folders are listed in alphabetical order. The content pages are listed in reversed alphabetical order. That will result in having the latest pages on the top and oldest pages at the bottom.

Accessing content pages

Each file in the content-pages folder contains one heritage content. It includes a path to the cover image, tags, summary and may be the title.

In each file, there are two parts in each file content: Front-matter, and the main content.

The front-matter is optional. if there is front-matter, it will be marked with "---" at both beginning and ending of the front-matter section.

Here is an example content in .html extension, with front-matter embedded.

```
---
title: This is an Example Page
tags: example, test
cover: example-cover.jpeg
summary: This is a sample summary.
---
<h1>Example Page</h1>
<p>Here is the rest of the content.</p>
```

檔案命名慣例

檔名包含日期與以 slug 形式呈現的標題。格式為「YYYY-MM-DD-title-in-lower-case-with-hyphens.html」或「.txt」。

檔案名稱的第一部分採用 YYYY-MM-DD 格式，YYYY 為四位數年份，MM 為兩位數月份，DD 為兩位數日期。

檔案名稱的第二部分是檔案標題的 slug 形式。也就是將標題轉為小寫，並將所有空格替換為連字號。

以下是一些範例檔名：

- 2024-09-01-example-page.html
- 2024-10-20-greatest-lyon-heritage-site.html
- 2025-01-01-a-post-for-future-posting.txt

列出內容

在列出內容時，清單會顯示標題和摘要。點選標題或摘要皆會連結到該單一內容。

該清單不應列出日期在今日以後的未來頁面。

該清單也不應列出處於草稿狀態的頁面，即檔案前置資料（front-matter）中定義為 draft: "true" 的頁面。

該清單亦應隱藏未定義任何日期的頁面。也就是說，當第一個 11 個字元不符合 "YYYY-MM-DD-" 的格式時，應予以隱藏。

除了頁面之外，該清單也會列出並連結至子資料夾。點擊子資料夾名稱時，網站會列出該子資料夾內的內容，也就是該子資料夾內的頁面和子資料夾。

內容列舉的順序

清單先列出子資料夾，然後列出內容頁面。子資料夾以字母順序排列。內容頁面則以反向字母順序排列。這會導致最新的頁面出現在最上方，最舊的頁面在最下方。

存取內容頁面

content-pages 資料夾中的每個檔案都包含一則遺產內容。它包括封面圖像的路徑、標籤、摘要，並可能包含標題。

在每個檔案中，檔案內容分為兩個部分：前置資料（front-matter）與主要內容。

前置資料是可選的。如果有前置資料，會以 "---" 標示在前置資料區塊的開始與結束處。

以下是一個在 .html 副檔名中嵌入前置資料的範例內容。

```
---
title: This is an Example Page
標籤： example、test
封面： example-cover.jpeg
摘要： 這是一個範例摘要。
---

<h1>Example Page</h1>
這裡是剩餘的內容。
```



```
<p>And some other paragraph.</p>
```

```

```

```
<footer>That is all</footer>
```

Here is an example content in .txt extension format.

```
---
```

```
title: This is another sample page
```

```
tags: example, test, plain-text
```

```
cover: another-cover.jpeg
```

```
summary: This is a sample page in txt format.
```

```
---
```

```
This is sample main content.
```

Each line of content is turned into `<p></p>` paragraph.

```
sample-image.jpeg
```

The image path / image name with individual line are turned into `` tag.

```
This is footer paragraph.
```

The files in the "content-pages" folder can be nested into sub-folders.

Front-matter

There may be front-matter in the beginning of the content file.

There may be different key-value pairs defined in the front-matter section. They are:

- title (optional)
- tags (optional): separated by comma, or comma with spaces
- draft (optional): true, or other values. Any values other than "true" is considered as false.
- summary (optional): One line only. To be used when listing the pages.

Rendering a heritage site web page

In the rendered page, there are following sections:

- Cover image,
- Title,
- aside information,
- main content

還有其他段落。

```
  
就這樣
```

這是一個以 .txt 副檔名格式的範例內容。

```
---  
title: 這是另一個範例頁面  
tags: example, test, plain-text  
cover: another-cover.jpeg  
摘要: 這是一個以 txt 格式呈現的範例頁面。  
---  
這是範例主要內容。
```

每一行內容都被轉換成
段落。

sample-image.jpeg

影像路徑 / 影像檔名若各自獨立於單行，會被轉換為
標籤。

這是頁腳段落。

位於 "content-pages" 資料夾中的檔案可以巢狀放入子資料夾。

Front-matter

內容檔案的開頭可能包含前置資料。

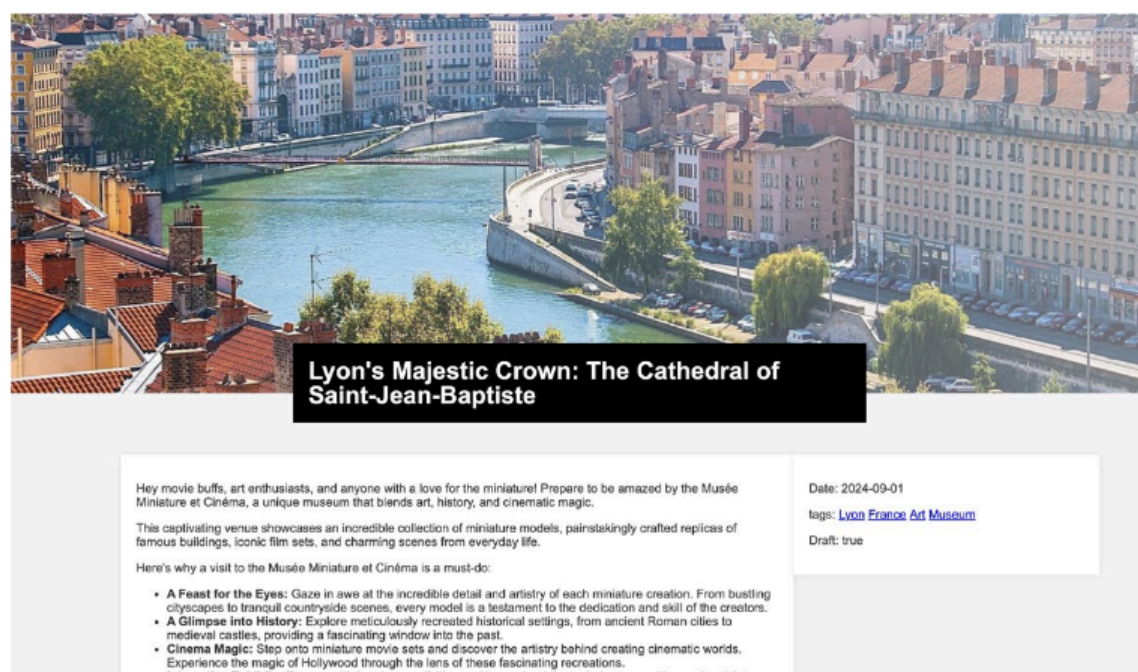
前置資料區段中可能定義了不同的鍵值對。它們為：

- title（可選）
- tags（可選）：以逗號或逗號加空格分隔
- draft（可選）：true，或其他值。任何不是「true」的值皆視為 false。
- summary（可選）：僅一行。用於列出頁面時。

呈現一個文化遺址網站頁面

在呈現的頁面中，包含以下章節：

- 封面圖片，
- 標題，
- 旁註資訊，
- 主要內容



Cover Image

The path to the cover image of each content page is defined in the front-matter by default.

If the cover image is not defined in the front-matter, the cover image will be the same file name stored in the images folder. In this project, we don't need to consider the missing of this cover image.

Cover image styling

There is a subtle spotlight effect on the cover image.

A radial gradient of mask is applied to the cover image. The mask is circle with center point following the mouse pointer, gradient from black to rgba(255,255,255,0) 300px.

Please refer to the cover-image-styling.mp4 in the media files.

On the extraction of title

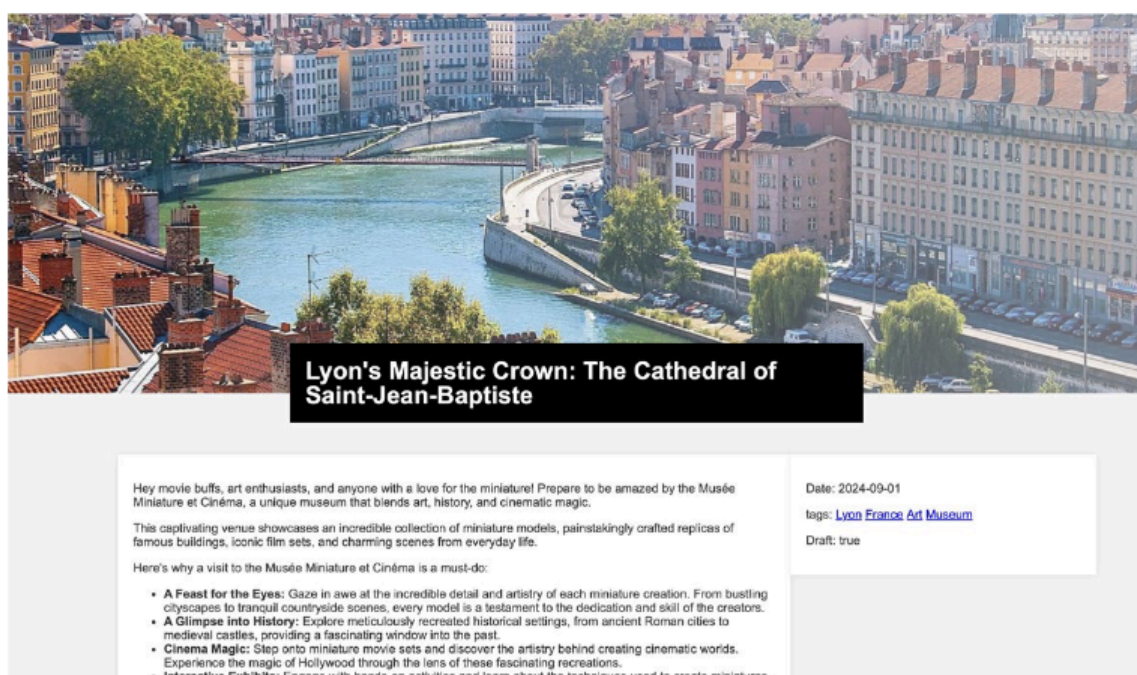
There is a Title section after the cover image. The content of the title is decided according to the following criteria.

The title should be extracted from the following, in order.

1. When there is "title" defined in the front-matter, the content of Title section uses the value of this front-matter
2. When there is no "title" defined in the front-matter, the content of Title section use the text content of first `<h1></h1>` (Simple text content, the h1 will not be rich HTML)
3. When no any "title" in front-matter nor no h1 tag in the content, the content of Title section uses the capitalization of the file name, without extension and the YYYY-MM-DD date content. Also, all the hyphen slugs (-) are removed and replaced into spaces.

Styling of the title section

Please use the common-ligatures typography setting on the title styling.



封面圖片

每個內容頁的封面圖片路徑預設在前置欄位（front-matter）中定義。

若前置欄位未定義封面圖片，則封面圖片會是儲存在 images 資料夾中相同檔名的檔案。在此專案中，我們不需要考慮封面圖片遺失的情況。

封面圖片樣式

封面圖片上有一個微妙的聚光燈效果。

在封面圖片上套用了徑向漸層遮罩。遮罩為以滑鼠指標為中心點的圓形，從黑色漸層到 rgba(255,255,255,0) 的距離為 300px。

請參考媒體檔中的 cover-image-styling.mp4。

關於標題的擷取

封面圖片之後有一個標題區段。標題內容依據以下準則決定。

標題應依序從下列項目擷取。

1. 若在前置欄位（front-matter）中有定義 "title"，則標題區段的內容使用此 front-matter 的值
2. 當前置欄位（front-matter）中未定義「title」時，Title 區段的內容使用第一個的文字內容（純文字內容，h1 不會包含富格式 HTML）
3. 當前置欄位既無「title」，且內容中也無 h1 標籤時，Title 區段的內容使用檔案名稱（去除副檔名與 YYYY-MM-DD 日期）的大小寫格式。此外，所有的連字短划線（-）會被移除並改以空格取代。

Title 區段的樣式

請在 Title 樣式上使用常用合字（common-ligatures）排版設定。

Aside information

There are following information in the aside information area.

date, tags, draft (If the draft is true)

The meta information on the side is stucked to the top when scrolling down.

Rendering main content

The main content should be dynamic loaded from the files.

Here are some file loading strategies.

If the file extension is .html, the main content and any HTML tags are rendered as is. No need to parse or process (Except the image path). They are just rendered as the HTML.

If the file extension is .txt, there will only be two kind of content. Lines of text and individual line containing image path. Each line of text is turned into HTML paragraphs.

Individual line of image path is turned into image tag. These are lines without any spaces and with image extensions at the end.

For both .html and .txt, the image paths should be replaced to fit final image paths that work on server.

The photos in the content area have full-width to the main content container. The photos in the main content area can be enlarged when user clicks on the photos. Clicking the enlarged photo will close the enlarged photo and revert to the main content. Scrolling during photo enlarged will also close the enlarged photo and revert to the main content.

The first letter of the first paragraph has drop cap for 3 lines.

Tags

Content pages can be filtered by tags. The URL for tags querying is defined as following.

http://wsXX.worldskills.org/XX_module_c/tags/tag-name-here shows a page that lists all the pages that contains given tag "tag-name-here".

Searching

The web page should be able to search for pages. Please provide a search input and user should be able to search for title or content. Given a search query, the web page should list pages that either the title or the content contains the query string.

It should be able to use "/" to define multiple keywords for searching. And the page list the page with title or content that contains either keyword, in OR logic.

旁註資訊

旁註資訊區中包含以下資訊。

日期、標籤、草稿（如果草稿為 true）

側邊的元資訊在向下捲動時會固定在頂端。

呈現主要內容

主要內容應該從檔案動態載入。

以下是一些檔案載入策略。

如果檔案副檔名是 .html，主要內容與任何 HTML 標籤皆照原樣呈現。無需解析或處理（圖片路徑除外）。它們僅作為 HTML 呈現。

如果檔案副檔名是 .txt，內容只有兩種類型。文字行與單獨一行的圖片路徑。每一行文字會轉成 HTML 段落。

單獨一行的圖片路徑會轉成圖片標籤。這些行沒有任何空格，且以圖片副檔名結尾。

無論是 .html 或 .txt，圖片路徑皆需替換為可在伺服器上使用的最終圖片路徑。

內容區內的照片會延伸至主內容容器的全寬。主內容區的照片在使用者點擊時可以放大。點擊放大的照片會關閉放大視圖並回到主內容。放大照片時進行捲動也會關閉放大視圖並回到主內容。

第一段的第一個字母為首字下沉，佔三行。

標籤

內容頁可以透過標籤進行篩選。標籤查詢的 URL 定義如下。

http://wsXX.worldskills.org/XX_module_c/tags/tag-name-here 顯示一個頁面，列出所有包含指定標籤「tag-name-here」的頁面。

搜尋

該網頁應能搜尋頁面。請提供一個搜尋輸入欄，使用者應能以標題或內容進行搜尋。給定搜尋查詢後，網頁應列出標題或內容包含該查詢字串的頁面。

應能使用 "/" 來定義多個關鍵字進行搜尋。頁面應列出標題或內容包含任一關鍵字的頁面，採用 OR 邏輯。

Instructions to the Competitor

You may put your project in a sub-folder or different port. Please redirect to your destination from the path `wsXX.worldskills.org/XX_module_c/`

For example, `/XX_module_c/heritages/sub-folder-name` may be `/XX_module_c/public/heritages/sub-folder-name` or `/XX_module_c/index.php/heritages/sub-folder-name` or `:3000/XX_module_c/heritages/sub-folder-name`.

Note if you are using NodeJS, please be aware of the `node_modules` files for Windows (on workstation) and Linux (on server) is different. Using a wrong `node_modules` folder may result in unexpected error.

You may provide a README file for executing guide if necessary.

Please consider better accessibility. Full page scan will be performed by using the aXe accessibility dev tool.

Please define social sharing meta tags for each single heritage page for sharing friendly purpose.

Please define the `.gitignore` file to skip `node_modules` folder and other temporary folder or built folder.

This project will be assessed by using Google Chrome web browser.

Marking Summary

| | Sub-Criteria | Marks |
|---|-------------------|-------|
| 1 | Files and Listing | 7.0 |
| 2 | Search and Tags | 2.0 |
| 3 | Loading files | 5.5 |
| 4 | Layout | 6.75 |

參賽者說明

您可以將專案放在子資料夾或不同的埠。請從路徑 `wsXX.worldskills.org/XX_module_c/` 重新導向至目的地。

例如，`/XX_module_c/heritages/sub-folder-name` 可能是 `/XX_module_c/public/heritages/sub-folder-name`、`/XX_module_c/index.php/heritages/sub-folder-name`，或 `:3000/XX_module_c/heritages/sub-folder-name`。

注意：若您使用 NodeJS，請留意 Windows（工作站）與 Linux（伺服器）所需的 `node_modules` 檔案不同。使用錯誤的 `node_modules` 資料夾可能會導致意外錯誤。

如有需要，您可以提供一份 README 檔案作為執行指南。

請考量最佳的無障礙性。將使用 aXe 無障礙開發工具對整頁進行掃描。

請為每一個單一文化遺產頁面定義社群分享用的 meta 標籤，以利分享友善。

請定義 `.gitignore` 檔案以忽略 `node_modules` 資料夾以及其他暫存或已建置的資料夾。

本專案將以 Google Chrome 網頁瀏覽器進行評估。

評分摘要

| | 子準則 | 分數 |
|---|-------|------|
| 1 | 檔案與清單 | 7.0 |
| 2 | 搜尋與標籤 | 2.0 |
| 3 | 載入檔案 | 5.5 |
| 4 | 版面配置 | 6.75 |