



## Performance

### Metrics



● First Contentful Paint	2.0 s	● Time to Interactive	2.3 s
■ Speed Index	4.1 s	● Total Blocking Time	0 ms
■ Largest Contentful Paint	3.2 s	● Cumulative Layout Shift	0

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

### [View Trace](#)



**Opportunities** — These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

Opportunity	Estimated Savings
▲ Serve images in next-gen formats	5.85 s

Image formats like JPEG 2000, JPEG XR, and WebP often provide better compression than PNG or JPEG, which means faster downloads and less data consumption. [Learn more.](#)

[Show 3rd party resources \(0\)](#)

URL	Resource Size	Potential Savings
...images/sharon-mc...jpg (book-repository-virtual.herokuapp.com)	1,473.5 KB	834.2 KB
...images/Gaff.png (book-repository-virtual.herokuapp.com)	328 KB	308.7 KB
Book Repos ...images/logo_bookstack_text_96_spacing.png (book-repository-virtual.herokuapp.com)	81.4 KB	39.5 KB

▲ Eliminate render-blocking resources	1.05 s
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Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline and deferring all non-critical JS/styles. [Learn more.](#)

[Show 3rd-party resources \(3\)](#)

URL	Transfer Size	Potential Savings
/icon?family=Material+Icons (fonts.googleapis.com)	0.8 KB	810 ms
...css/materialize.min.css (cdnjs.cloudflare.com)	31.7 KB	1,240 ms
...styles/style.css (book-repository-virtual.herokuapp.com)	14.9 KB	500 ms
...build/cookieconsent.min.css (cdn.jsdelivr.net)	3.1 KB	780 ms

#### Remove unused JavaScript

0.45 s ^

Remove unused JavaScript to reduce bytes consumed by network activity. [Learn more](#).

 Show 3rd-party resources (2)

URL	Transfer Size	Potential Savings
...js/materialize.min.js (cdnjs.cloudflare.com)	72.8 KB	56.2 KB
...build/cookieconsent.min.js (cdn.jsdelivr.net)	13.5 KB	6 KB

#### Preconnect to required origins

0.21 s ^

Consider adding `preconnect` or `dns-prefetch` resource hints to establish early connections to important third-party origins. [Learn more](#).

URL	Potential Savings
https://fonts.gstatic.com	210 ms

#### Minify CSS

0.15 s ^

Minifying CSS files can reduce network payload sizes. [Learn more](#).

 Show 3rd-party resources (0)

URL	Transfer Size	Potential Savings
...styles/style.css (book-repository-virtual.herokuapp.com)	14.9 KB	5.2 KB

#### Remove unused CSS

0.15 s ^

Remove dead rules from stylesheets and defer the loading of CSS not used for above-the-fold content to reduce unnecessary bytes consumed by network activity. [Learn more](#).

 Show 3rd-party resources (1)

URL	Transfer Size	Potential Savings
...css/materialize.min.css (cdnjs.cloudflare.com)	31.7 KB	30.7 KB
...styles/style.css (book-repository-virtual.herokuapp.com)	14.9 KB	11.4 KB

#### Enable text compression

0.15 s ^

Text-based resources should be served with compression (gzip, deflate or brotli) to minimize total network bytes. [Learn more](#).

 Show 3rd-party resources (0)

URL	Transfer Size	Potential Savings
https://book-repository-virtual.herokuapp.com	17.6 KB	15.2 KB
...styles/style.css (book-repository-virtual.herokuapp.com)	14.4 KB	12.3 KB

**Diagnostics** — More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

#### ▲ Ensure text remains visible during webfont load

^

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. [Learn more.](#)

Show 3rd party resources (1)

URL	Potential Savings
...v55/fUUhRq6tz....woff2 (fonts.gstatic.com)	210 ms

#### ▲ Does not use HTTP/2 for all of its resources — 8 requests not served via HTTP/2

HTTP/2 offers many benefits over HTTP/1.1, including binary headers, multiplexing, and server push. [Learn more.](#)

Show 3rd party resources (0)

URL	Protocol
https://book-repository-virtual.herokuapp.com	http/1.1
...styles/style.css (book-repository-virtual.herokuapp.com)	http/1.1
...images/logo_bookstack_text_96_spacing.png (book-repository-virtual.herokuapp.com)	http/1.1
...images/Gaff.png (book-repository-virtual.herokuapp.com)	http/1.1
...vendor/materialize.js (book-repository-virtual.herokuapp.com)	http/1.1
...scripts/message.js (book-repository-virtual.herokuapp.com)	http/1.1
...vendor/cookies.js (book-repository-virtual.herokuapp.com)	http/1.1
...images/sharon-mc....jpg (book-repository-virtual.herokuapp.com)	http/1.1

#### ▲ Does not use passive listeners to improve scrolling performance

Consider marking your touch and wheel event listeners as 'passive' to improve your page's scroll performance. [Learn more.](#)

Show 3rd party resources (1)

URL	Location
...js/materialize.min.js (cdnjs.cloudflare.com)	line: 5

#### ▲ Serve static assets with an efficient cache policy — 9 resources found

A long cache lifetime can speed up repeat visits to your page. [Learn more.](#)

Show 3rd-party resources (2)

URL	Cache TTL	Transfer Size
...images/sharon-mc....jpg (book-repository-virtual.herokuapp.com)	12 h	1,474 KB
...images/Gaff.png (book-repository-virtual.herokuapp.com)	12 h	328 KB
...images/logo_bookstack_text_96_spacing.png (book-repository-virtual.herokuapp.com)	12 h	81 KB
...styles/style.css (book-repository-virtual.herokuapp.com)	12 h	15 KB
...vendor/cookies.js (book-repository-virtual.herokuapp.com)	12 h	2 KB
...scripts/message.js (book-repository-virtual.herokuapp.com)	12 h	1 KB
...vendor/materialize.js (book-repository-virtual.herokuapp.com)	12 h	1 KB
...build/cookieconsent.min.js (cdn.jsdelivr.net)	7 d	14 KB
...build/cookieconsent.min.css (cdn.jsdelivr.net)	7 d	3 KB

#### ● Avoid chaining critical requests — 9 chains found

The Critical Request Chains below show you what resources are loaded with a high priority. Consider reducing the length of chains, reducing the download size of resources, or deferring the download of unnecessary resources to improve page load. [Learn more.](#)

Maximum critical path latency: **540 ms**

*Initial Navigation*



/icon?family=Material+Icons (fonts.googleapis.com)
...v55/f1UhRq6tz....woff2 (fonts.gstatic.com) - <b>210 ms, 94.33 KB</b>
...css/materialize.min.css (cdnjs.cloudflare.com) - <b>150 ms, 31.72 KB</b>
...styles/style.css (book-repository-virtual.herokuapp.com)
/css?family=Raleway&display=swap (fonts.googleapis.com)
...v17/1Ptxg8zYS....woff2 (fonts.gstatic.com) - <b>140 ms, 15.65 KB</b>
...build/cookieconsent.min.css (cdn.jsdelivr.net) - <b>150 ms, 3.14 KB</b>
...js/materialize.min.js (cdnjs.cloudflare.com) - <b>180 ms, 72.84 KB</b>
...vendor/materialize.js (book-repository-virtual.herokuapp.com) - <b>120 ms, 0.6 KB</b>
...scripts/message.js (book-repository-virtual.herokuapp.com) - <b>170 ms, 0.94 KB</b>
...build/cookieconsent.min.js (cdn.jsdelivr.net) - <b>190 ms, 13.5 KB</b>
...vendor/cookies.js (book-repository-virtual.herokuapp.com) - <b>160 ms, 1.92 KB</b>

#### ● Keep request counts low and transfer sizes small — 16 requests • 2,143 KB

To set budgets for the quantity and size of page resources, add a budget.json file. [Learn more.](#)

Resource Type	Requests	Transfer Size
Total	16	2,143 KB
Image	3	1,882.9 KB
Font	2	110 KB
Script	5	89.8 KB
Stylesheet	5	51.1 KB
Document	1	9.1 KB
Media	0	0 KB
Other	0	0 KB
Third-party	8	232.6 KB

#### ● Largest Contentful Paint element — 1 element found

This is the element that was identified as the Largest Contentful Paint. [Learn More](#)

Element

img.landing\_logo

#### ● Avoid large layout shifts — 5 elements found

These DOM elements contribute most to the CLS of the page.

Element

div.landing\_page

div.footer-copyright.blue.darken-4

p

p

img

#### Passed audits (15)

##### ● Properly size images

Serve images that are appropriately-sized to save cellular data and improve load time. [Learn more.](#)

##### ● Defer offscreen images

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. [Learn more](#).

#### ● Minify JavaScript

Minifying JavaScript files can reduce payload sizes and script parse time. [Learn more](#).

#### ● Efficiently encode images

Optimized images load faster and consume less cellular data. [Learn more](#).

#### ● Initial server response time was short — Root document took 50 ms

Keep the server response time for the main document short because all other requests depend on it. [Learn more](#).

#### ● Avoid multiple page redirects

Redirects introduce additional delays before the page can be loaded. [Learn more](#).

#### ● Preload key requests

Consider using `<link rel=preload>` to prioritize fetching resources that are currently requested later in page load. [Learn more](#).

#### ● Use video formats for animated content

Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. [Learn more](#)

#### ● Avoids enormous network payloads — Total size was 2,143 KB

Large network payloads cost users real money and are highly correlated with long load times. [Learn more](#).

Show 3rd-party resources (5)

URL	Transfer Size
...images/sharon-mc....jpg (book-repository-virtual.herokuapp.com)	1,473.5 KB
...images/Gaff.png (book-repository-virtual.herokuapp.com)	328 KB
...v55/fIUhRq6tz....woff2 (fonts.gstatic.com)	94.3 KB
...images/logo_bookstack_text_96_spacing.png (book-repository-virtual.herokuapp.com)	81.4 KB
...js/materialize.min.js (cdnjs.cloudflare.com)	72.8 KB
...css/materialize.min.css (cdnjs.cloudflare.com)	31.7 KB
...v17/1Ptxg8zYS....woff2 (fonts.gstatic.com)	15.7 KB
...styles/style.css (book-repository-virtual.herokuapp.com)	14.9 KB
...build/cookieconsent.min.js (cdn.jsdelivr.net)	13.5 KB
https://book-repository-virtual.herokuapp.com	9.1 KB

#### ● Avoids an excessive DOM size — 96 elements

A large DOM will increase memory usage, cause longer [style calculations](#), and produce costly [layout reflows](#). [Learn more](#).

Statistic	Element	Value
Total DOM Elements		96
Maximum DOM Depth	<i class="material-icons right">	8
Maximum Child Elements	<body>	12

#### ● User Timing marks and measures

Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. [Learn more](#).

#### ● JavaScript execution time — 0.0 s

Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. [Learn more](#).

Show 3rd party resources (0)

URL	Total CPU Time	Script Evaluation	Script Parse
<a href="https://book-repository-virtual.herokuapp.com">https://book-repository-virtual.herokuapp.com</a>	809 ms	5 ms	1 ms
Unattributable	150 ms	3 ms	1 ms

#### ● Minimizes main-thread work — 1.1 s ^

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. [Learn more](#)

Category	Time Spent
Rendering	711 ms
Other	198 ms
Script Evaluation	70 ms
Style & Layout	40 ms
Parse HTML & CSS	38 ms
Script Parsing & Compilation	14 ms

#### ● Minimize third-party usage — Third-party code blocked the main thread for 0 ms ^

Third-party code can significantly impact load performance. Limit the number of redundant third-party providers and try to load third-party code after your page has primarily finished loading. [Learn more](#).

Third-Party	Transfer Size	Main-Thread Blocking Time
<a href="#">Google Fonts</a>	111 KB	0 ms
<a href="#">Cloudflare CDN</a>	105 KB	0 ms
<a href="#">JSDelivr CDN</a>	17 KB	0 ms

#### ● Avoids `document.write()` ^

For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. [Learn more](#).



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

#### Additional items to manually check (10) — These items address areas which an automated testing tool cannot cover. ^

Learn more in our guide on [conducting an accessibility review](#).

#### ● The page has a logical tab order ^

Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. [Learn more](#).

#### ● Interactive controls are keyboard focusable ^

Custom interactive controls are keyboard focusable and display a focus indicator. [Learn more](#).

#### ● Interactive elements indicate their purpose and state ^

Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. [Learn more](#).

- The user's focus is directed to new content added to the page
  - If new content, such as a dialog, is added to the page, the user's focus is directed to it. [Learn more.](#)
- User focus is not accidentally trapped in a region
  - A user can tab into and out of any control or region without accidentally trapping their focus. [Learn more.](#)
- Custom controls have associated labels
  - Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. [Learn more.](#)
- Custom controls have ARIA roles
  - Custom interactive controls have appropriate ARIA roles. [Learn more.](#)
- Visual order on the page follows DOM order
  - DOM order matches the visual order, improving navigation for assistive technology. [Learn more.](#)
- Offscreen content is hidden from assistive technology
  - Offscreen content is hidden with display: none or aria-hidden=true. [Learn more.](#)
- HTML5 landmark elements are used to improve navigation
  - Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. [Learn more.](#)

## Passed audits (13)

- [aria-hidden="true"] is not present on the document <body>
  - Assistive technologies, like screen readers, work inconsistently when `aria-hidden="true"` is set on the document `<body>`. [Learn more.](#)
- The page contains a heading, skip link, or landmark region
  - Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. [Learn more.](#)
- Background and foreground colors have a sufficient contrast ratio
  - Low-contrast text is difficult or impossible for many users to read. [Learn more.](#)
- Document has a <title> element
  - The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. [Learn more.](#)
- ARIA IDs are unique
  - The value of an ARIA ID must be unique to prevent other instances from being overlooked by assistive technologies. [Learn more.](#)
- Heading elements appear in a sequentially-descending order
  - Properly ordered headings that do not skip levels convey the semantic structure of the page, making it easier to navigate and understand when using assistive technologies. [Learn more.](#)
- <html> element has a [lang] attribute
  - If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. [Learn more.](#)
- <html> element has a valid value for its [lang] attribute
  - Specifying a valid [BCP 47 language](#) helps screen readers announce text properly. [Learn more.](#)
- Image elements have [alt] attributes
  - Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. [Learn more.](#)
- Links have a discernible name

Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. [Learn more](#).

● **Lists contain only `<li>` elements and script supporting elements (`<script>` and `<template>`).**

Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. [Learn more](#).

● **List items (`<li>`) are contained within `<ul>` or `<ol>` parent elements**

Screen readers require list items (`<li>`) to be contained within a parent `'ul'` or `'ol'` to be announced properly. [Learn more](#).

● **`[user-scalable="no"]` is not used in the `<meta name="viewport">` element and the `[maximum-scale]` attribute is not less than 5.**

Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. [Learn more](#).

## Not applicable (28)

● **`[accesskey]` values are unique**

Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. [Learn more](#).

● **`[aria-*]` attributes match their roles**

Each ARIA 'role' supports a specific subset of 'aria-\*' attributes. Mismatching these invalidates the 'aria-\*' attributes. [Learn more](#).

● **`[aria-hidden="true"]` elements do not contain focusable descendants**

Focusable descendants within an `'[aria-hidden="true"]'` element prevent those interactive elements from being available to users of assistive technologies like screen readers. [Learn more](#).

● **ARIA input fields have accessible names**

When an input field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. [Learn more](#).

● **`[role]`s have all required `[aria-*]` attributes**

Some ARIA roles have required attributes that describe the state of the element to screen readers. [Learn more](#).

● **Elements with an ARIA `[role]` that require children to contain a specific `[role]` have all required children.**

Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. [Learn more](#).

● **`[role]`s are contained by their required parent element**

Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. [Learn more](#).

● **`[role]` values are valid**

ARIA roles must have valid values in order to perform their intended accessibility functions. [Learn more](#).

● **ARIA toggle fields have accessible names**

When a toggle field doesn't have an accessible name, screen readers announce it with a generic name, making it unusable for users who rely on screen readers. [Learn more](#).

● **`[aria-*]` attributes have valid values**

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. [Learn more](#).

● **`[aria-*]` attributes are valid and not misspelled**

Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. [Learn more](#).

● **Buttons have an accessible name**

When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. [Learn more](#).

- `<dl>`'s contain only properly-ordered `<dt>` and `<dd>` groups, `<script>`, `<template>` or `<div>` elements.
 

When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. [Learn more.](#)
- Definition list items are wrapped in `<dl>` elements
 

Definition list items (`<dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can properly announce them. [Learn more.](#)
- `[id]` attributes on active, focusable elements are unique
 

All focusable elements must have a unique `id` to ensure that they're visible to assistive technologies. [Learn more.](#)
- No form fields have multiple labels
 

Form fields with multiple labels can be confusingly announced by assistive technologies like screen readers which use either the first, the last, or all of the labels. [Learn more.](#)
- `<frame>` or `<iframe>` elements have a title
 

Screen reader users rely on frame titles to describe the contents of frames. [Learn more.](#)
- `<input type="image">` elements have `[alt]` text
 

When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. [Learn more.](#)
- Form elements have associated labels
 

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. [Learn more.](#)
- Presentational `<table>` elements avoid using `<th>`, `<caption>` or the `[summary]` attribute.
 

A table being used for layout purposes should not include data elements, such as the `th` or `caption` elements or the `summary` attribute, because this can create a confusing experience for screen reader users. [Learn more.](#)
- The document does not use `<meta http-equiv="refresh">`

Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. [Learn more.](#)
- `<object>` elements have `[alt]` text
 

Screen readers cannot translate non-text content. Adding alt text to `<object>` elements helps screen readers convey meaning to users. [Learn more.](#)
- No element has a `[tabindex]` value greater than 0
 

A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. [Learn more.](#)
- Cells in a `<table>` element that use the `[headers]` attribute refer to table cells within the same table.
 

Screen readers have features to make navigating tables easier. Ensuring `<td>` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. [Learn more.](#)
- `<th>` elements and elements with `[role="columnheader"/"rowheader"]` have data cells they describe.
 

Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. [Learn more.](#)
- `[lang]` attributes have a valid value
 

Specifying a valid [BCP 47 language](#) on elements helps ensure that text is pronounced correctly by a screen reader. [Learn more.](#)
- `<video>` elements contain a `<track>` element with `[kind="captions"]`

When a video provides a caption it is easier for deaf and hearing impaired users to access its information. [Learn more.](#)
- `<video>` elements contain a `<track>` element with `[kind="description"]`

Audio descriptions provide relevant information for videos that dialogue cannot, such as facial expressions and scenes. [Learn more.](#)



## Best Practices

### User Experience

#### ▲ Displays images with incorrect aspect ratio

Image display dimensions should match natural aspect ratio. [Learn more.](#)

[Show 3rd party resources \(0\)](#)

URL	Aspect Ratio (Displayed)	Aspect Ratio (Actual)
 <a href="#">...images/logo_bookstack_text_96_spacing.png (book-repository-virtual.herokuapp.com)</a>	1524 x 75 (20.32)	1524 x 562 (2.71)
 <a href="#">...images/Gaff.png (book-repository-virtual.herokuapp.com)</a>	512 x 150 (3.41)	512 x 512 (1.00)

### Passed audits (13)

#### ● Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding [mixed content](#), where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. [Learn more.](#)

#### ● Links to cross-origin destinations are safe

Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. [Learn more.](#)

#### ● Avoids requesting the geolocation permission on page load

Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to a user action instead. [Learn more.](#)

#### ● Avoids requesting the notification permission on page load

Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. [Learn more.](#)

#### ● Avoids front-end JavaScript libraries with known security vulnerabilities

Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. [Learn more.](#)

#### ● Allows users to paste into password fields

Preventing password pasting undermines good security policy. [Learn more.](#)

#### ● Displays images with appropriate size

Image natural dimensions should be proportional to the display size and the pixel ratio to maximize image clarity. [Learn more.](#)

#### ● Page has the HTML doctype

Specifying a doctype prevents the browser from switching to quirks-mode. [Learn more.](#)

#### ● Properly defines charset

A character encoding declaration is required. It can be done with a <meta> tag in the first 1024 bytes of the HTML or in the Content-Type HTTP response header. [Learn more.](#)

#### ● Avoids Application Cache

Application Cache is deprecated. [Learn more.](#)

#### Detected JavaScript libraries

All front-end JavaScript libraries detected on the page. [Learn more.](#)

#### Avoids deprecated APIs

Deprecated APIs will eventually be removed from the browser. [Learn more.](#)

#### No browser errors logged to the console

Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns. [Learn more](#)



## SEO

These checks ensure that your page is optimized for search engine results ranking. There are additional factors Lighthouse does not check that may affect your search ranking. [Learn more](#).

**Crawling and Indexing** — To appear in search results, crawlers need access to your app.

#### ▲ robots.txt is not valid — 165 errors found

If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. [Learn more](#).

Line #	Content	Error
1	<!DOCTYPE html>	Syntax not understood
2	<html lang="en">	Syntax not understood
4	<head>	Syntax not understood
5	<meta charset="utf-8">	Syntax not understood
6	<meta http-equiv="X-UA-Compatible" content="IE=edge">	Syntax not understood
7	<meta name="viewport" content="width=device-width, initial-scale=1">	Syntax not understood
8	<meta name="Description" content="Developer and Designer: Naoise Gaffney - 'Gaff'. Title: Book Repository. Reason: third	Unknown directive
9	milestone project for the Code Institute's Diploma in Full Stack Development. Description: The	Unknown directive
10	Book Repository is a digital or virtual library to store information about your books, such as	Syntax not understood

Line #	Content	Error
11	title, author, year published, ISBN, genre, rating, description, and your reflection and comments.	Syntax not unders tood
12	The Book Repository provides a private and public search function too, using any combination of title,	Syntax not unders tood
13	author, ISBN, genre, and rating.">	Syntax not unders tood
14	<link rel="apple-touch-icon" sizes="180x180" href="/static/images/apple-touch-icon.png">	Syntax not unders tood
15	<link rel="icon" type="image/png" sizes="32x32" href="/static/images/favicon-32x32.png">	Syntax not unders tood
16	<link rel="icon" type="image/png" sizes="16x16" href="/static/images/favicon-16x16.png">	Syntax not unders tood
17	<link rel="manifest" href="/static/images/site.webmanifest">	Syntax not unders tood
18	<title>Book Repository</title>	Syntax not unders tood
20	<!--Import Google Icon Font-->	Syntax not unders tood
21	<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">	Unknown directive
22	<!--Import materialize.css-->	Syntax not unders tood
23	<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.css">	Unknown directive
24	<!-- Custom CSS -->	Syntax not unders tood
25	<link rel="stylesheet" type="text/css" href="/static/styles/style.css">	Syntax not unders tood
26	<!-- Cookie Consent by Osano: https://www.osano.com/cookieconsent/download/ -->	Unknown directive
27	<link rel="stylesheet" type="text/css"	Syntax not unders tood
28	href="https://cdn.jsdelivr.net/npm/cookieconsent@3/build/cookieconsent.min.css" />	Unknown directive
30	<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->	Syntax not unders tood
31	<!-- WARNING: Respond.js doesn't work if you view the page via file:// -->	Unknown directive

Line #	Content	Issue
32	<!--[if lt IE 9]>	Syntax not unders tood
33	<script src="//cdnjs.cloudflare.com/ajax/libs/html5shiv/3.7/html5shiv.js"></script>	Syntax not unders tood
34	<script src="//cdnjs.cloudflare.com/ajax/libs/respond.js/1.4.2/respond.js"></script>	Syntax not unders tood
35	<![endif]-->	Syntax not unders tood
39	</head>	Syntax not unders tood
41	<body>	Syntax not unders tood
42	<header>	Syntax not unders tood
44	<nav class="nav-wrapper white">	Syntax not unders tood
45	<div class="container">	Syntax not unders tood
46	<a href="/index.html"></a>	Syntax not unders tood
47	<i class="material-icons blue-text text-darken-4" id="matnavbar">menu</i>	Syntax not unders tood
48	<a href="#" class="sidenav-trigger" data-target="mobile-links">	Syntax not unders tood
49	</a>	Syntax not unders tood
50	<ul class="right hide-on-med-and-down blue darken-4 waves-effect" id="nav-mobile">	Syntax not unders tood
51	<li>	Syntax not unders tood
53	<a href="/index.html">Home<i class="material-icons right">home</i></a>	Syntax not unders tood
55	</li>	Syntax not unders tood
56	<li>	Syntax

Line #	Content	not unders tood
57	<a href="/user/sign-in">Sign In<i	Syntax not unders tood
58	class="material-icons right">login</i></a>	Syntax not unders tood
59	</li>	Syntax not unders tood
60	<li>	Syntax not unders tood
61	<a href="/user/register">Register<i	Syntax not unders tood
62	class="material-icons right">how_to_reg</i></a>	Syntax not unders tood
63	</li>	Syntax not unders tood
65	</ul>	Syntax not unders tood
66	</div>	Syntax not unders tood
67	</nav>	Syntax not unders tood
68	<!-- Naviagtion for Mobile devices using a "Hamburger-menu" which must be defined outside of <nav></nav> to function in Materialize 1.0.0 -->	Syntax not unders tood
69	<ul class="sidenav blue darken-4" id="mobile-links">	Syntax not unders tood
71	<li>	Syntax not unders tood
72	<a href="/index.html" class="white-text">Home<i	Syntax not unders tood
73	class="material-icons white-text left">home</i></a>	Syntax not unders tood
74	</li>	Syntax not unders tood
75	<li>	Syntax not unders tood
76	<a href="/user/sign-in" class="white-text">Sign In<i	Syntax not unders tood

77	Content	Syntax not unders tood
78	</li>	Syntax not unders tood
79	<li>	Syntax not unders tood
80	<a href="/user/register" class="white-text">Register<i	Syntax not unders tood
81	class="material-icons white-text left">how_to_reg</i></a>	Syntax not unders tood
82	</li>	Syntax not unders tood
84	</ul>	Syntax not unders tood
85	</header>	Syntax not unders tood
89	<div id="main-div" class="container center">	Syntax not unders tood
93	</div>	Syntax not unders tood
97	<div class="container">	Syntax not unders tood
98	<div class="row">	Syntax not unders tood
99	<div class="col s12 offset-m1 m10 offset-l1 l10">	Syntax not unders tood
100	<div class="card center">	Syntax not unders tood
101	<div class="card-image">	Syntax not unders tood
102		Syntax not unders tood
103	<a href="/index.html" class="halfway-fab btn-floating pink pink-darken-1 pulse">	Syntax not unders tood
104	<i class="material-icons">support</i>	Syntax not unders tood
105	</a>	Syntax not unders tood

Line #	Content	Error
106	</div>	Syntax not unders tood
107	<div class="card-content">	Syntax not unders tood
108	<span class="card-title pink-text text-darken-1">Client: 404 - Page Not Found</span>	Unknown directive
109	<p>Apologies, our Librarians are lost in the Library or have lost the book you're looking for! Please click on the pink pulsating buoy to go to the Home Page (registering or signing in) or Member's Page (signed in), or click on Sign Out below.</p>	Syntax not unders tood
110	<p>&nbsp;</p>	Syntax not unders tood
111	<p>Book Repository Message - 404 Not Found: The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.</p>	Unknown directive
112	</div>	Syntax not unders tood
113	<div class="card-action">	Syntax not unders tood
114	<a href="/user/sign-out">[ Sign Out <i class="material-icons">pan_tool</i> ]</a>	Syntax not unders tood
115	</div>	Syntax not unders tood
116	</div>	Syntax not unders tood
117	</div>	Syntax not unders tood
118	</div>	Syntax not unders tood
119	</div>	Syntax not unders tood
123	<footer class="page-footer transparent">	Syntax not unders tood
124	<div class="footer-copyright blue darken-4">	Syntax not unders tood
125	<div class="left-align">Book Repository v1.0</div>	Syntax not unders tood
126	<div class="center-align"><a class="modal-trigger" href="#about"><i class="material-icons white-text"	Syntax not unders tood
127	id="menu_book">menu_book</i></a></div>	Syntax not unders tood

Line #	Content	unders tood
128	<div class="right-align">&copy; 2020	Syntax not unders tood
129	GaffCo Consulting</div>	Syntax not unders tood
130	</div>	Syntax not unders tood
131	<div class="container">	Syntax not unders tood
132	<div id="about" class="modal center">	Syntax not unders tood
133	<div class="modal-content">	Syntax not unders tood
134	<ul class="tabs blue darken-4 center">	Syntax not unders tood
135	<li class="tab">	Syntax not unders tood
136	<a href="#bookrepo" class="active blue darken-4 white-text waves-effect">Book Repository</a>	Syntax not unders tood
137	</li>	Syntax not unders tood
138	<li class="tab">	Syntax not unders tood
139	<a href="#gaff" class="active blue darken-4 white-text waves-effect">Gaff</a>	Syntax not unders tood
140	</li>	Syntax not unders tood
141	<li class="tab">	Syntax not unders tood
142	<a href="#code" class="active blue darken-4 white-text waves-effect">Code</a>	Syntax not unders tood
143	</li>	Syntax not unders tood
144	</ul>	Syntax not unders tood
145	<div id="bookrepo">	Syntax not unders tood
146	<p class="tab_content_heading"><img	Syntax

Line #	Content	not Error unders tood
147	<code>alt="Book Repository Logo"&gt;&lt;/p&gt;</code>	Syntax not unders tood
148	<code>&lt;p&gt;A safe virtual repository for books, a digital version of your library that is searchable,</code>	Syntax not unders tood
149	<code>and where</code>	Syntax not unders tood
150	<code>you can share your book notes and thoughts with like-minded readers.</code>	Syntax not unders tood
151	<code>&lt;/p&gt;</code>	Syntax not unders tood
152	<code>&lt;/div&gt;</code>	Syntax not unders tood
153	<code>&lt;div id="gaff"&gt;</code>	Syntax not unders tood
154	<code>&lt;p class="flow-text blue-text text-darken-4 tab_content_heading"&gt;Naoise Gaffney - "Gaff"&lt;/p&gt;</code>	Syntax not unders tood
155	<code>&lt;p&gt;&lt;img src="/static/images/Gaff.png" height="150" alt="Gaff"&gt;&lt;/p&gt;</code>	Syntax not unders tood
156	<code>&lt;p&gt;Code Institute Learner and Developer of this Book Repository, a Milestone Project 3</code>	Syntax not unders tood
157	<code>(Data-Centric) for the Code</code>	Syntax not unders tood
158	<code>Institute Diploma in Full Stack Development. Full Stack Developer and UX Designer.&lt;/p&gt;</code>	Syntax not unders tood
159	<code>&lt;/div&gt;</code>	Syntax not unders tood
160	<code>&lt;div id="code"&gt;</code>	Syntax not unders tood
161	<code>&lt;p class="flow-text blue-text text-darken-4 tab_content_heading"&gt;Code on GitHub&lt;/p&gt;</code>	Syntax not unders tood
162	<code>&lt;p&gt;Front-end: HTML 5, CSS 3, and JavaScript&lt;/p&gt;</code>	Unknown directive
163	<code>&lt;p&gt;Application: Python, Flask, Flask Extensions, and MongoEngine&lt;/p&gt;</code>	Unknown directive
164	<code>&lt;p&gt;Database: MongoDB&lt;/p&gt;</code>	Unknown directive

Line #	Content	Error
165	<p>API: Google Books API</p>	Unknown directive
166	<p>External Links: Amazon UK and ISBN Search</p>	Unknown directive
167	<p><a href="https://github.com/NaoiseGaffney/BookRepository" target="_blank" rel="noopener">	Unknown directive
168	class="pink-text text-darken-1 waves-effect">&ampnbspBook Repository on GitHub&ampnbsp</a>	Syntax not unders tood
169	</p>	Syntax not unders tood
170	</div>	Syntax not unders tood
171	<div class="modal-footer">	Syntax not unders tood
172	<a href="#" class="modal-close btn waves-effect waves-light blue darken-4">Thank You!<i>	Syntax not unders tood
173	class="material-icons right">thumb_up</i></a>	Syntax not unders tood
174	</div>	Syntax not unders tood
175	</div>	Syntax not unders tood
176	</div>	Syntax not unders tood
177	</div>	Syntax not unders tood
179	</footer>	Syntax not unders tood
182	<!-- Compiled and minified JavaScript -->	Syntax not unders tood
183	<script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script>	Unknown directive
184	<!-- Initialise MaterializeCSS 1.0.0 Features -->	Syntax not unders tood
185	<script src="/static/scripts/vendor/materialize.js"></script>	Syntax not unders tood
186	<!-- Message Chip Timeout -->	Syntax not unders +odd

Line #	Content	
187	<script src="/static/scripts/message.js"></script>	Error Syntax not unders tood
188	<!-- Cookie Consent by Osano: https://www.osano.com/cookieconsent/download/ -->	Unknow n direct ive
189	<script src="https://cdn.jsdelivr.net/npm/cookieconsent@3/build/cookieconsent.min.js" data-cfasync="false"></script>	Unknow n direct ive
190	<script src="/static/scripts/vendor/cookies.js"></script>	Syntax not unders tood
194	</body>	Syntax not unders tood
196	</html>	Syntax not unders tood

**Additional items to manually check (1)** — Run these additional validators on your site to check additional SEO best practices.

● Structured data is valid

Run the [Structured Data Testing Tool](#) and the [Structured Data Linter](#) to validate structured data. [Learn more](#).

**Passed audits (11)**

● Has a `<meta name="viewport">` tag with `width` or `initial-scale`

Add a `<meta name="viewport">` tag to optimize your app for mobile screens. [Learn more](#).

● Document has a `<title>` element

The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. [Learn more](#).

● Document has a meta description

Meta descriptions may be included in search results to concisely summarize page content. [Learn more](#).

● Page has successful HTTP status code

Pages with unsuccessful HTTP status codes may not be indexed properly. [Learn more](#).

● Links have descriptive text

Descriptive link text helps search engines understand your content. [Learn more](#).

● Page isn't blocked from indexing

Search engines are unable to include your pages in search results if they don't have permission to crawl them. [Learn more](#).

● Image elements have `[alt]` attributes

Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. [Learn more](#).

● Document has a valid `hreflang`

hreflang links tell search engines what version of a page they should list in search results for a given language or region. [Learn more](#).

● Document uses legible font sizes — 100% legible text

Font sizes less than 12px are too small to be legible and require mobile visitors to “pinch to zoom” in order to read. Strive to have >60% of page text ≥12px. [Learn more.](#)

Show 3rd party resources (0)

Source	Selector	% of Page Text	Font Size
Legible text		100.00%	≥ 12px

#### ● Document avoids plugins

Search engines can't index plugin content, and many devices restrict plugins or don't support them. [Learn more.](#)

#### ● Tap targets are sized appropriately — 100% appropriately sized tap targets

Interactive elements like buttons and links should be large enough (48x48px), and have enough space around them, to be easy enough to tap without overlapping onto other elements. [Learn more.](#)

#### Not applicable (1)

##### ● Document has a valid `rel=canonical`

Canonical links suggest which URL to show in search results. [Learn more.](#)



## Progressive Web App

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

### ⚡ Fast and reliable

#### ● Page load is fast enough on mobile networks

A fast page load over a cellular network ensures a good mobile user experience. [Learn more.](#)

#### ▲ Current page does not respond with a 200 when offline

If you're building a Progressive Web App, consider using a service worker so that your app can work offline. [Learn more.](#)

#### ▲ `start_url` does not respond with a 200 when offline

Timed out waiting for `start_url` (<https://book-repository-virtual.herokuapp.com/>) to respond.

A service worker enables your web app to be reliable in unpredictable network conditions. [Learn more.](#)

### ⊕ Installable

#### ● Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. This includes avoiding [mixed content](#), where some resources are loaded over HTTP despite the initial request being served over HTTPS. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. [Learn more.](#)

#### ▲ Does not register a service worker that controls page and `start_url`

The service worker is the technology that enables your app to use many Progressive Web App features, such as offline, add to homescreen, and push notifications. [Learn more.](#)

#### ▲ Web app manifest does not meet the installability requirements

##### ▲ Failures: Manifest does not have `short\_name`, Manifest does not have `name`.

Browsers can proactively prompt users to add your app to their homescreen, which can lead to higher engagement. [Learn more.](#)

### ★ PWA Optimized

▲ Does not redirect HTTP traffic to HTTPS

If you've already set up HTTPS, make sure that you redirect all HTTP traffic to HTTPS in order to enable secure web features for all your users. [Learn more](#).

▲ Is not configured for a custom splash screen **Failures: Manifest does not have `name`.**

A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. [Learn more](#).

▲ Does not set a theme color for the address bar. **Failures: No `<meta name="theme-color">` tag found.**

The browser address bar can be themed to match your site. [Learn more](#).

● Content is sized correctly for the viewport

If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. [Learn more](#).

● Has a `<meta name="viewport">` tag with `width` or `initial-scale`

Add a `<meta name="viewport">` tag to optimize your app for mobile screens. [Learn more](#).

● Contains some content when JavaScript is not available

Your app should display some content when JavaScript is disabled, even if it's just a warning to the user that JavaScript is required to use the app. [Learn more](#).

● Provides a valid `apple-touch-icon`

For ideal appearance on iOS when users add a progressive web app to the home screen, define an `apple-touch-icon`. It must point to a non-transparent 192px (or 180px) square PNG. [Learn More](#).

▲ Manifest doesn't have a maskable icon

A maskable icon ensures that the image fills the entire shape without being letterboxed when installing the app on a device. [Learn more](#).

**Additional items to manually check (3)** — These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

● Site works cross-browser

To reach the most number of users, sites should work across every major browser. [Learn more](#).

● Page transitions don't feel like they block on the network

Transitions should feel snappy as you tap around, even on a slow network. This experience is key to a user's perception of performance. [Learn more](#).

● Each page has a URL

Ensure individual pages are deep linkable via URL and that URLs are unique for the purpose of shareability on social media. [Learn more](#).

Runtime Settings

URL	<a href="https://book-repository-virtual.herokuapp.com/">https://book-repository-virtual.herokuapp.com/</a>
Fetch Time	Sep 10, 2020, 7:08 PM GMT+1
Device	Emulated Moto G4
Network throttling	150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)
CPU throttling	4x slowdown (Simulated)
Channel	devtools
User agent (host)	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_6) AppleWebKit/537.36 (KHTML, like Gecko)

like Gecko) Chrome/85.0.4183.83 Safari/537.36

User agent (network)	Mozilla/5.0 (Linux; Android 6.0.1; Moto G (4)) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3963.0 Mobile Safari/537.36 Chrome-Lighthouse
CPU/Memory Power	1542

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