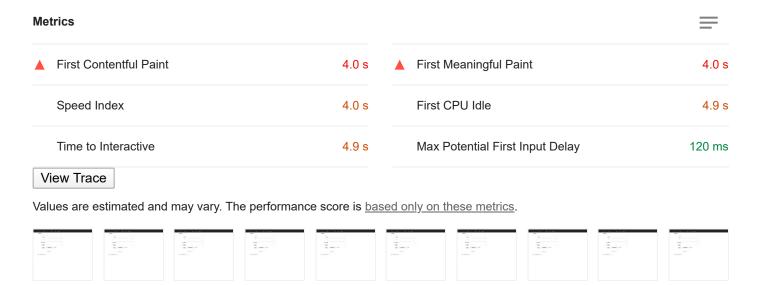


Performance



Opportunities — These suggestions can help your page load faster. They don't directly affect the Performance score.

Opportunity **Estimated Savings** Enable text compression 3.06 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	Size	Potential Savings
	/Scripts/jquery-3.3.1.js (localhost)	531 KB	452 KB
	/Content/bootstrap.css (localhost)	285 KB	264 KB
	/Scripts/bootstrap.js (localhost)	147 KB	132 KB
	/Scripts/modernizr-2.8.3.js (localhost)	100 KB	85 KB
	/Home/Index (localhost)	8 KB	7 KB
A	Eliminate render-blocking resources		1.2 s ^
	Resources are blocking the first paint of your page. Consider delivering critical JS/CSS inline JS/styles. <u>Learn more</u> .	e and deferring all non	-critical
		Show 3rd-party ro	esources (0)
	URL	Size	Potential Savings
	/Content/bootstrap.css (localhost)	143 KB	900 ms
	/Scripts/modernizr-2.8.3.js (localhost)	50 KB	300 ms
A	Minify JavaScript		1.05 s ^
	Minifying JavaScript files can reduce payload sizes and script parse time. <u>Learn more</u> .		
		Show 3rd-party ro	esources (0)
	URL	Size	Potential Savings
	/Scripts/jquery-3.3.1.js (localhost)	278 KB	136 KB
	/Scripts/modernizr-2.8.3.js (localhost)	50 KB	34 KB
	/Scripts/bootstrap.js (localhost)	74 KB	25 KB
A	Remove unused CSS		0.9 s ^
	Remove dead rules from stylesheets and defer the loading of CSS not used for above-the-founnecessary bytes consumed by network activity. <u>Learn more</u> .	old content to reduce	
		Show 3rd-party re	esources (0)
	URL	Size	Potential Savings
	/Content/bootstrap.css (localhost)	143 KB	135 KB
	Minify CSS		0.15 s ^
	Minifying CSS files can reduce network payload sizes. <u>Learn more</u> .		
		Chow 2rd porty re	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Show 3rd-party resources (0)

URL Size Potential Savings

/Content/bootstrap.css (localhost) 143 KB 23 KB

Diagnostics — More information about the performance of your application. These numbers don't <u>directly affect</u> the Performance score.

▲ Serve static assets with an efficient cache policy — 5 resources found

A long cache lifetime can speed up repeat visits to your page. Learn more.

Show 3rd-party resources (0)

URL	Cache TTL	Size
/Scripts/jquery-3.3.1.js (localhost)	None	278 KB
/Content/bootstrap.css (localhost)	None	143 KB
/Scripts/bootstrap.js (localhost)	None	74 KB
/Scripts/modernizr-2.8.3.js (localhost)	None	50 KB
/Content/site.css (localhost)	None	1 KB

Avoid chaining critical requests — 5 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: 90 ms

Initial Navigation

/Home/Index (localhost)

/Content/bootstrap.css (localhost) - 20 ms, 142.76 KB

/Content/site.css (localhost) - 10 ms, 0.82 KB

/Scripts/modernizr-2.8.3.js (localhost) - 10 ms, 50.37 KB

/Scripts/jquery-3.3.1.js (localhost) - 20 ms, 277.95 KB

/Scripts/bootstrap.js (localhost) - 20 ms, 73.9 KB

Keep request counts low and transfer sizes small — 8 requests • 669 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	8	669 KB
Script	4	521 KB

Resource Type	Requests	Transfer Size
Stylesheet	2	144 KB
Document	1	4 KB
Other	1	1 KB
Image	0	0 KB
Media	0	0 KB
Font	0	0 KB
Third-party	0	0 KB
Passed audits (16)		^
Properly size images		^
Serve images that are appropriately-sized to sa	eve cellular data and improve load time. <u>Learn n</u>	nore.
Defer offscreen images		^
Consider lazy-loading offscreen and hidden important interactive. Learn more.	ages after all critical resources have finished loa	ding to lower time to
Efficiently encode images		^
Optimized images load faster and consume les	s cellular data. <u>Learn more</u> .	
Serve images in next-gen formats		^
Image formats like JPEG 2000, JPEG XR, and faster downloads and less data consumption. L	WebP often provide better compression than Plearn more.	NG or JPEG, which means
Preconnect to required origins		^
Consider adding `preconnect` or `dns-prefetch` <u>Learn more</u> .	resource hints to establish early connections to	important third-party origins.
Server response times are low (TTFB) — Roo	ot document took 50 ms	^
Time To First Byte identifies the time at which y	our server sends a response. <u>Learn more</u> .	
Avoid multiple page redirects		^
Redirects introduce additional delays before the	e page can be loaded. <u>Learn more</u> .	
Preload key requests		^
Consider using ` <link rel="preload"/> ` to prioritize more.	fetching resources that are currently requested	later in page load. <u>Learn</u>
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. <u>Learn more</u>

PNG/WebP for static images instead of GIF to save i	network bytes. <u>Learn more</u>		
Avoids enormous network payloads — Total size wa	as 669 KB		^
Large network payloads cost users real money and a	are highly correlated with long	load times. <u>Learn more</u> .	
		Show 3rd-p	arty resources (0)
URL			Size
/Scripts/jquery-3.3.1.js (localhost)			278 KB
/Content/bootstrap.css (localhost)			143 KB
/78a2e27/browserLink (localhost)			118 KB
/Scripts/bootstrap.js (localhost)			74 KB
/Scripts/modernizr-2.8.3.js (localhost)			50 KB
/Home/Index (localhost)			4 KB
/Content/site.css (localhost)			1 KB
browserLinkSignalR/negotiate?requestUrl= (local	calhost)		1 KB
Avoids an excessive DOM size — 52 elements			^
A large DOM will increase memory usage, cause lon	ger <u>style calculations</u> , and pro	oduce costly <u>layout reflows</u>	s. <u>Learn more</u> .
Chatiatia	Flament		Value
Statistic Tatal DOM Florents	Element		
Total DOM Elements	to has C. II (House (Dansdoods II)		52
Maximum DOM Depth	<pre></pre>		7
Maximum Child Elements	<pre><div class="form-horizontal</pre></td><td>I"></div></pre>	8	
User Timing marks and measures			^
Consider instrumenting your app with the User Timin experiences. <u>Learn more</u> .	g API to measure your app's	real-world performance du	ring key user
JavaScript execution time — 0.3 s			^
Consider reducing the time spent parsing, compiling, with this. <u>Learn more</u> .	and executing JS. You may	find delivering smaller JS p	ayloads helps
		Show 3rd-p	arty resources (0)
URL	Total CPU Time	Script Evaluation	Script Parse
Other	404 ms	19 ms	4 ms
/78a2e27/browserLink (localhost)	194 ms	168 ms	22 ms

URL	Total CPU Time	Script Evaluation	Script Parse
/Scripts/modernizr-2.8.3.js (localhost)	156 ms	33 ms	8 ms
/Scripts/jquery-3.3.1.js (localhost)	81 ms	50 ms	30 ms
Minimizes main-thread work — 0.9 s			^

Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this. <u>Learn more</u>

Category	Time Spent
Script Evaluation	313 ms
Other	264 ms
Style & Layout	138 ms
Script Parsing & Compilation	105 ms
Parse HTML & CSS	81 ms
Garbage Collection	14 ms
Rendering	6 ms
All text remains visible during webfont loads	^
Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more</u> .	
Minimize third-party usage	^
Third-party code can significantly impact load performance. Limit the number of redundant third-party provide	rs and try to

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. <u>Learn more</u>.



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.

Internationalization and localization — These are opportunities to improve the interpretation of your content by users in different locales.

<html> element does not have 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.

Failing Elements

html.js.flexbox.flexboxlegacy.canvas.canvastext.webgl.no-touch.geolocation.postmessage.websqldatabase.indexeddb.hashchange.history.draganddrop.websockets.rgba.hsla.multiple bgs.backgroundsize.borderimage.borderradius.boxshadow.textshadow.opacity.cssanimations.csscolumns.cssgradients.cssr eflections.csstransforms.csstransforms3d.csstransitions.fontface.generatedcontent.video.audio.localstorage.sessionstorage.webworkers.applicationcache.svg.inlinesvg.smil.svgclippaths

Names and labels — These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

Form elements do not have associated labels	^
Labels ensure that form controls are announced properly by assistive technologies, like screen readers. <u>Learn more</u> .	
Failing Elements	
input#file	
ditional items to manually check (11) — These items address areas which an automated testing tool cannot cover. Learn are 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. <u>Learn more</u> .	
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learn more</u> .	
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. <u>Learn more</u> .	
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. <u>Learn more</u> .	
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. <u>Learn more</u> .	
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
Custom controls have ARIA roles	_

	Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
	Visual order on the page follows DOM order	^
	DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
	Offscreen content is hidden from assistive technology	^
	Offscreen content is hidden with display: none or aria-hidden=true. <u>Learn more</u> .	
	Headings don't skip levels	^
	Headings are used to create an outline for the page and heading levels are not skipped. <u>Learn more</u> .	
	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.</nav></main>	'.
Pas	ssed audits (8)	^
	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. <u>Learn more</u> .	
	Document has a <title> element</th><th>^</th></tr><tr><th></th><td>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. <u>Learn more</u>.</td><td>le</td></tr><tr><th></th><td>[id] attributes on the page are unique</td><td>^</td></tr><tr><th></th><td>The value of an id attribute must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn more.</u></td><td></td></tr><tr><th></th><td>Links have a discernible name</td><td>^</td></tr><tr><th></th><td>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. <u>Learn more</u>.</td><td></td></tr><tr><th></th><td>Lists contain only elements and script supporting elements (<script> and <template>).</td><td>^</td></tr><tr><th></th><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn more</u>.</td><td></td></tr><tr><th></th><td>List items (<1i>) are contained within or parent elements</td><td>^</td></tr><tr><th></th><td>Screen readers require list items (``) to be contained within a parent `` or `` to be announced properly. <u>Learn more</u>.</td><td></td></tr><tr><th></th><td>[user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not less than 5.</td><td>^</td></tr></tbody></table></title>	

Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. <u>Learn more</u>.

Not applicable (25)	^
[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	<u>2</u> .
[aria-*] attributes match their roles	^
Each ARIA `role` supports a specific subset of `aria-*` attributes. Mismatching these invalidates the `aria-*` attributes. <u>Learn more</u> .	<u>1</u>
[role]s have all required [aria-*] attributes	^
Some ARIA roles have required attributes that describe the state of the element to screen readers. <u>Learn more</u> .	
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. <u>Learn more</u> .	
[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. <u>Learn more</u> .	
[role] values are valid	^
ARIA roles must have valid values in order to perform their intended accessibility functions. <u>Learn more</u> .	
[aria-*] attributes have valid values	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. <u>Learn more</u> .	
[aria-*] attributes are valid and not misspelled	^
Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more.	
<audio> elements contain a <track/> element with [kind="captions"]</audio>	^
Captions make audio elements usable for deaf or hearing-impaired users, providing critical information such as who is talking, what they're saying, and other non-speech information. <u>Learn more</u> .	
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. <u>Learn more</u> .)
<pre><dl>'s contain only properly-ordered <dt> and <dd> groups, <script> or <template> elements.</pre></td><td>^</td></tr><tr><td>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn more</u>.</td><td></td></tr><tr><td>Definition list items are wrapped in <d1> elements</td><td>^</td></tr></tbody></table></script></dd></dt></dl></pre>	

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. <frame> or <iframe> elements have a title Screen reader users rely on frame titles to describe the contents of frames. 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. <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. Presentational elements avoid using , <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 element that use the [headers] attribute refer to table cells within the same table. Screen readers have features to make navigating tables easier. Ensuring '' cells using the '[headers]' attribute only refer to other cells in the same table may improve the experience for screen reader users. Learn more. 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. <u>Learn more</u>.



Best Practices

Includes front-end JavaScript lit	oraries with known security vulnerabilitie	s — 1 vulnerability detected
Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. <u>Learn more</u> .		
Library Version	Vulnerability Count	Highest Severity
jQuery@3.3.1	1	Medium
sed audits (14)		
Avoids Application Cache		
Application Cache is deprecate	d. <u>Learn more</u> .	
Uses HTTPS		
•	ning in on the communications between	sensitive data. HTTPS prevents intruders from a your app and your users, and is a prerequisite f
Uses HTTP/2 for its own resour	ces	
HTTP/2 offers many benefits ov	er HTTP/1.1, including binary headers,	multiplexing, and server push. <u>Learn more</u> .
Uses passive listeners to impro	ve scrolling performance	
Consider marking your touch ar	d wheel event listeners as `passive` to i	improve your page's scroll performance. <u>Learn m</u>
Avoids document.write()		
For users on slow connections, seconds. <u>Learn more</u> .	external scripts dynamically injected via	`document.write()` can delay page load by tens

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. <u>Learn more</u>.

Page has the HTML doctype

Specifying a doctype prevents the browser from switching to quirks-mode. Learn more.

Detected JavaScript libraries

All front-end JavaScript libraries detected on the page. Learn more.

Name Version

Bootstrap 3.4.1

jQuery (Fast path)

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. <u>Learn more</u>.

2.8.3

Avoids deprecated APIs

Modernizr

Deprecated APIs will eventually be removed from the browser. Learn more.

Allows users to paste into password fields

Preventing password pasting undermines good security policy. 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. <u>Learn more</u>

Displays images with correct aspect ratio

Image display dimensions should match natural aspect ratio. Learn more.



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. <u>Learn more</u>.

Content Best Practices — Format your HTML in a way that enables crawlers to better understand your app's content.

A	Document does not have a meta description	^
	Meta descriptions may be included in search results to concisely summarize page content. <u>Learn more</u> .	
	ditional items to manually check (1) — Run these additional validators on your site to check additional SEO best actices.	^
	Structured data is valid	^
	Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more</u> .	
Pa	ssed audits (7)	^
	Has a <meta name="viewport"/> tag with width or initial-scale	^
	Add a ` <meta name="viewport"/> ` tag to optimize your app for mobile screens. <u>Learn more</u> .	
	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a pair is relevant to their search. <u>Learn more</u>.</td><td>ge</td></tr><tr><td></td><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td></td><td>Pages with unsuccessful HTTP status codes may not be indexed properly. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>Links have descriptive text</td><td>^</td></tr><tr><td></td><td>Descriptive link text helps search engines understand your content. <u>Learn more</u>.</td><td></td></tr><tr><td></td><td>Page isn't blocked from indexing</td><td>^</td></tr><tr><td></td><td>Search engines are unable to include your pages in search results if they don't have permission to crawl them. Learn more</td><td></td></tr><tr><td></td><td>Document has a valid hreflang</td><td>^</td></tr><tr><td></td><td>hreflang links tell search engines what version of a page they should list in search results for a given language or region. <u>Learn more.</u></td><td></td></tr><tr><td></td><td>Document avoids plugins</td><td>^</td></tr><tr><td></td><td>Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more</u>.</td><td></td></tr><tr><td>No</td><td>t applicable (5)</td><td>^</td></tr><tr><td></td><td>robots.txt is valid</td><td>^</td></tr></tbody></table></title>	

If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed. <u>Learn more</u>.

Image elements have [alt] attributes

Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. <u>Learn more</u>.

Document has a valid rel=canonical

Canonical links suggest which URL to show in search results. Learn more.

Document uses legible font sizes

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.

Tap targets are sized appropriately

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. <u>Learn more</u>.

Runtime Settings

URL https://localhost:44317/Home/Index

Fetch time Jan 10, 2020, 5:39 PM GMT+2

Device Emulated Desktop

Network throttling 150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)

CPU throttling 4x slowdown (Simulated)

User agent (host) Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like

Gecko) Chrome/79.0.3945.117 Safari/537.36

User agent (network) Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML,

like Gecko) Chrome/74.0.3694.0 Safari/537.36 Chrome-Lighthouse

CPU/Memory Power 1042

Generated by Lighthouse 5.5.0 | File an issue