40 100

Progressive Web App

These audits validate the aspects of a Progressive Web App. They are a subset of the PWA Checklist.

App can load on offline/flaky connections 🕶

Ensuring your web app can respond when the network connection is unavailable or flaky is critical to providing your users a good experience. This is achieved through use of a <u>Service Worker</u>.

- Registers a Service Worker ?
- Responds with a 200 when offline ?
- 🕕 Page load performance is fast 🛛 🗸

Users notice if sites and apps don't perform well. These top-level metrics capture the most important perceived performance concerns.

- 44 First meaningful paint: 4340.9ms (target: 1,600ms) ?
- 69 Perceptual Speed Index: 3847 (target: 1,250) ?

First Visual Change: 501ms

Last Visual Change: 4366ms

- 100 Estimated Input Latency: 16ms (target: 50ms) ?
- Time To Interactive (alpha): 4344.5ms (target: 5,000ms)
- Site is progressively enhanced 🗸

Progressive enhancement means that everyone can access the basic content and functionality of a page in any browser, and those without certain browser features may receive a reduced but still functional experience.

- ✓ Contains some content when JavaScript is not available ?
- Network connection is secure

Security is an important part of the web for both developers and users. Moving forward, Transport Layer Security (TLS) support will be required for many APIs.

- Uses HTTPS ?
- Redirects HTTP traffic to HTTPS ?
- 🔀 User can be prompted to Add to Homescreen 🔻

While users can manually add your site to their homescreen in the browser menu, the <u>prompt (aka app install banner)</u> will proactively prompt the user to install the app if the below requirements are met and the user has visited your site at least twice (with at least five minutes between visits).

- Registers a Service Worker ?
- Manifest exists ?
- Manifest contains start_url ?
- Manifest contains icons at least 144px
- Manifest contains short_name ?

(\mathbf{x})	Installed web app will launch with custom splash screen	~

A default splash screen will be constructed, but meeting these requirements guarantee a high-quality and customizable <u>splash screen</u> the user sees between tapping the home screen icon and your app's first paint.

- Manifest exists ?
- Manifest contains name ?
- Manifest contains background_color ?
- Manifest contains theme_color ?
- Manifest contains icons at least 192px ?

Address bar matches brand colors 🗸

The browser address bar can be themed to match your site. A theme-color meta tag will upgrade the address bar when a user browses the site, and the manifest theme-color will apply the same theme site-wide once it's been added to homescreen.

- Manifest exists ?
- Manifest contains theme_color ?
- Design is mobile-friendly 🗸

Users increasingly experience your app on mobile devices, so it's important to ensure that the experience can adapt to smaller screens.

- ✓ Has a <meta name="viewport"> tag with width or initial-scale ?
- Content is sized correctly for the viewport ?

Best Practices

We've compiled some recommendations for modernizing your web app and avoiding performance pitfalls. These audits do not affect your score but are worth a look.

- ✓ Using modern offline features ∨
 - Avoids Application Cache ?
 - Avoids WebSQL DB ?
- Using modern protocols
 - Uses HTTPS ?
 - Uses HTTP/2 for its own resources: 329 requests were not handled over h2 ?
 - ▼ View details

URL	Protocol
https://localhost.com/	http/1.1
https://localhost.com/site.css	http/1.1
https://localhost.com/systemjs.config.js	http/1.1
https://localhost.com/node_modules/reflect-metadata/Reflect.js	http/1.1
https://localhost.com/node_modules/core-js/client/shim.min.js	http/1.1
https://localhost.com/node_modules/zone.js/dist/zone.js	http/1.1
https://localhost.com/site.js	http/1.1
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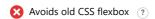
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https://localhost.com/node_modules/rxjs/operator/mapTo.js	http/1.1
https://localhost.com/node modules/rxjs/operator/materialize.js	http/1.1
https://localhost.com/node modules/rxjs/operator/max.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/merge.js	Protocol
https://localhost.com/node modules/rxjs/operator/mergeAll.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/mergeMap.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/mergeMapTo.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/mergeScan.js	http/1.1
https://localhost.com/node modules/rxjs/operator/min.js	http/1.1
https://localhost.com/node modules/rxjs/operator/multicast.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/observeOn.js	http/1.1
https://localhost.com/node modules/rxjs/operator/pairwise.js	http/1.1
https://localhost.com/node modules/rxjs/operator/partition.js	http/1.1
https://localhost.com/node modules/rxjs/operator/pluck.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/publish.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/publishBehavior.js	http/1.1

https://localhost.com/node_modules/rxjs/operator/publishReplay.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/publishLast.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/reduce.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/repeat.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/repeatWhen.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/retry.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/retryWhen.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/sample.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/sampleTime.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/scan.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/sequenceEqual.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/single.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/skip.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/skipUntil.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/skipWhile.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/startWith.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/subscribeOn.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/switch.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/switchMap.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/switchMapTo.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/take.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/takeLast.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/takeUntil.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/takeWhile.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/throttle.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/throttleTime.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/timeout.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/timeoutWith.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/toArray.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/toPromise.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/window.js	http/1.1
URL https://localhost.com/node_modules/rxjs/operator/windowCount.js	Protocol http/1.1
https://localhost.com/node_modules/rxjs/operator/windowTime.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/windowToggle.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/windowWhen.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/withLatestFrom.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/zip.js	http/1.1
https://localhost.com/node_modules/rxjs/operator/zipAll.js	http/1.1
https://localhost.com/node_modules/rxjs/util/isArray.js	http/1.1
https://localhost.com/node_modules/rxjs/util/isObject.js	http/1.1
https://localhost.com/node_modules/rxjs/util/isFunction.js	http/1.1
https://localhost.com/node_modules/rxjs/util/tryCatch.js	http/1.1
https://localhost.com/node_modules/rxjs/util/errorObject.js	http/1.1

https://localhost.com/node_modules/rxjs/Observer.js	http/1.1
https://localhost.com/node modules/rxjs/testing/ColdObservable.js	http/1.1
https://localhost.com/node_modules/rxjs/testing/HotObservable.js	http/1.1
https://localhost.com/node_modules/rxjs/testing/SubscriptionLog.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/AsyncAction.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/AsyncScheduler.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/AsapAction.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/AsapScheduler.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/QueueAction.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/QueueScheduler.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/AnimationFrameAction.js	http/1.1
https://localhost.com/node_modules/rxjs/scheduler/AnimationFrameScheduler.js	http/1.1
https://localhost.com/node_modules/rxjs/observable/ForkJoinObservable.js	http/1.1
https://localhost.com/node_modules/rxjs/observable/PromiseObservable.js	http/1.1

♥ Using modern CSS features ▼



▼ View details

URL	Line in the stylesheet / <style></th><th>Column start/end</th><th>Snippet</th></tr><tr><td>css/materialize.min.css</td><td>5</td><td>30211:30231</td><td><pre>.valign-wrapper { display:-ms-flexb }</pre></td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>34635:34655</td><td><pre>.page-footer .foote display:-ms-flexb }</pre></td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>58638:58658</td><td>.card.horizontal { display:-ms-flexb }</td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>59132:59152</td><td>.card.horizontal .c display:-ms-flexb</td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>61224:61244</td><td><pre>.toast { display:-ms-flexb }</pre></td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>62259:62279</td><td>.tabs.tabs-fixed-wi display:-ms-flexb</td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>63017:63037</td><td><pre>.tabs { display:-ms-flexb }</pre></td></tr><tr><td>css/materialize.min.css</td><td>5</td><td>66428:66448</td><td><pre>.fixed-action-btn.t display:-ms-flexb }</pre></td></tr><tr><td>css/materialize.min.css</td><td>15</td><td>4046:4066</td><td>.pickerfooter { display:-ms-flexb }</td></tr></tbody></table></style>
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Lighthouse report. https://focamost.com/
✓ Using modern JavaScript features ✓
Uses passive listeners to improve scrolling performance ?
Avoids Mutation Events in its own scripts ?
Avoiding APIs that harm the user experience 🗸
Avoids document.write() ?
Opens external anchors using rel="noopener" ?
Avoids requesting the geolocation permission on page load ?
Avoids requesting the notification permission on page load ?
Audit error: Required NotificationOnStart gatherer encountered an error: Unable to determine if the Notification permission was requested on page load because it was already granted. Try resetting the permission and running Lighthouse again.
✓ Avoiding deprecated APIs and browser interventions
Avoids deprecated APIs ?
Accessibility V
Element aria-* attributes are allowed for this role ?
Elements with ARIA roles have the required aria-* attributes ?
Element aria-* attributes are valid and not misspelled or non-existent.
Element aria-* attributes have valid values ?
Background and foreground colors have a sufficient contrast ratio ?
Every image element has an alt attribute ?
Every form element has a label ?
No element has a tabindex attribute greater than 0 ?
⊗ Other ∨
Manifest's short_name won't be truncated when displayed on homescreen ?
Manifest's display property is set ?

Performance

These encapsulate your app's performance.

i Unoptimized images: Potential savings of 16 KB (~80ms) ?

▼ View details

URL	Original	WebP Savings	JPEG Savings
categories/medic.pr	ng 8 KB	4 KB 50%	
categories/shoppin	g.png 7 KB	4 KB 55%	
ocategories/family.pr	ng 9 KB	3 KB 38%	
categories/cleaning	.png 5 KB	3 KB 48%	
categories/home.pr	ng 6 KB	2 KB 38%	

i Oversized Images ?

Critical Request Chains: 13 ?

Longest chain: 4,302.1ms over 2 requests, totalling 48.3KB

▼ View critical network waterfall

Initial navigation

/ (localhost.com)

/icon (fonts.googleapis.com) - **505.9ms**, **1.96KB**

/css (fonts.googleapis.com) - 512.2ms, 2.33KB

/site.css (localhost.com) - 669.4ms, 2.04KB

/systemjs.config.js (localhost.com) - 1,091.7ms, 3.05KB

- ...reflect-metadata/Reflect.js (localhost.com) - 1,964.5ms, 48.43KB

...client/shim.min.js (localhost.com) - 2,778.6ms, 78.78KB

...dist/zone.js (localhost.com) - 2,972ms, 87.63KB

/site.js (localhost.com) - 3,123ms, 1.86KB

...dist/jquery.min.js (localhost.com) - 3,530.5ms, 86.18KB

...css/materialize.min.css (localhost.com) - 3,558.4ms, 122.69KB

...dist/system.src.js (localhost.com) - 3,665.6ms, 126.18KB

...js/materialize.min.js (localhost.com) - **4,138.2ms**, **146.47KB**

...roboto/Roboto-Regular.woff2 (localhost.com) - 4,302.1ms, 49.64KB

A Render-blocking Stylesheets: 4 resources delayed first paint by 398ms ?

▼ View details

URL	Size (KB)	Delayed Paint By (ms)
/icon	0 KB	51ms
/css	1 KB	51ms
css/materialize.min.css	121 KB	398ms
/site.css	1 KB	335ms

(i) Render-blocking scripts ?

65 Avoids enormous network payloads: Total size was 3,529 KB (target: 1,600 KB) ?

▼ View details

URL	Total Size	Transfer Time
bundles/compiler.umd.js	948 KB	4,680ms
bundles/core.umd.js	453 KB	2,240ms
bundles/router.umd.js	211 KB	1,040ms
bundles/forms.umd.js	204 KB	1,010ms
js/materialize.min.js	145 KB	720ms
bundles/platform-browser.umd.js	140 KB	690ms
bundles/common.umd.js	130 KB	640ms
dist/system.src.js	125 KB	620ms
css/materialize.min.css	121 KB	600ms
dist/zone.js	86 KB	430ms

100 Avoids an excessive DOM size: 177 nodes (target: 1,500 nodes)

▼ More information

Total DOM Nodes	DOM Depth	Maximum Children
177	13	12
target: < 1,500 nodes	target: < 32	target: < 60 nodes

(i) User Timing marks and measures: 0 ?

A list of newer features that you could be using in your app. These audits do not affect your score and are just suggestions.

New JavaScript features ✓
Avoids Date.now() in its own scripts ②
▼ View details
URL
https://localhost.com/node modules/ic
4:7078
Avoids console.time() in its own scripts ②

