



Progressive Web App Checklist

Baseline	
1. Site is served over HTTPS.	
2. Pages are responsive on tablets & mobile devices.	
3. The start URL (at least) loads while offline (use Service Workers) – i.e. site can work offline.	
4. Metadata is provided for Add to Home screen (set in web app manifest file).	
5. First page load is fast even on 3G (time to interactive page < 10 sec for first visit).	
6. Site works cross-browser (Chrome, Edge, FireFox and Safari).	
7. Page transitions feel responsive as you navigate the app, even on a slow network.	
8. Each page has a unique URL for shareability on social media.	
Indexability & social optimization	
1. If using new browser features like Fetch API, use polyfills in browsers without support.	
2. Schema.org metadata is provided and improves the appearance of your site in search engines; i.e. supports Rich Cards.	
3. Social metadata is provided for Facebook & Twitter Cards using OpenGraph protocol.	
4. Canonical URLs are provided when necessary. This is only necessary if your content is available at multiple URLs.	
User experience	
1. UI or content doesn't jump as the page loads.	
2. Using back button from a detail page retains scroll position on the previous list page.	
3. When active, text input fields are visible and not obscured by the on-screen keyboard.	
4. Use proper input types to drive native validation and on screen keyboards.	
5. Content is easily shared from within the app; e.g. use social share buttons, generic share button or the Web Share API to integrate with the native Android system.	
6. Site is responsive across phone, tablet and desktop screen sizes.	
7. The Add to Home Screen prompt is intercepted.	
Performance	
1. First load is very fast, even on 3G	

a. Verify time to interactive <5s for first visit on a simulated 3G network	
b. Pagespeed Insights score > 85	
c. SpeedIndex on WebPageTest score <4000 on the first view (on Mobile 3G Nexus 5 Chrome).	
Caching	
1. Site uses cache-first networking.	
2. Site appropriately informs the user when they're offline.	
3. Responsibly invalidate cached responses	
Push notifications	
This check list only applies if notifications are implemented. Adding push notifications is not a requirement for an exemplary progressive web app.	
1. Provide context to the user about how notifications will be utilized, i.e. provide user-friendly language and examples of notification permissions.	
2. UI encouraging users to turn on Push Notifications is not overly aggressive.	
3. Site dims the screen when a permission request is in focus.	
4. Push notifications must be timely, precise and relevant.	
a. Timely — A timely notification is one that appears when users want it and when it matters to them.	
b. Precise — A precise notification is one that has specific information that can be acted on immediately.	
c. Relevant — A relevant message is one about people or subjects that the user cares about.	
5. Provide user controls to enable and disable notifications.	
6. Permission Prompt is only display in response to user interaction, not automatically upon visiting the site.	
Additional features	
1. User is logged in across devices via Credential Management API (This only applies if your site has a sign in flow.)	
2. User can pay easily via native UI from Payment Request API. (This check only applies if your site accepts payments.)	



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