Engineer Software

Delivered full Progressive Web App support

Delivered full Progressive Web App support — installable and offline-capable — with Workbox runtime caching via next-pwa.

2025

installable, and readable at sea with no signal

Situation. A lot of the platform's users are at sea. Seafarers and field staff, on phones, frequently offline or hanging off a bad connection — not people sitting at a desk on reliable office wifi. Building as if everyone had a fast, constant network would have quietly excluded a big part of the actual audience.

Task. The app had to be installable like a native one, and still usable when the network drops out.

Action. It's delivered as a full Progressive Web App. It installs to the home screen with proper icons across the various sizes, a splash screen and theme colours, so it looks and launches like an app rather than a bookmark. The service worker is set up through the next-pwa plugin, and Workbox runtime caching uses CacheFirst for the things that don't change per request — fonts, images, audio, video, CDN assets — alongside sensible HTTP cache-control headers. Because service workers only really behave over HTTPS, HTTPS-based testing validated the offline and install behaviour on real devices instead of hoping it worked.

Result. Users can install the app and keep using it offline, and repeat loads come back fast from cache instead of over the wire. The platform behaves like a native app on the hardware its users actually carry, which for this audience isn't a nice-to-have — it's the difference between the app being usable at sea and not.

Bring this experience to your project

Use “Delivered full Progressive Web App support” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Interfaces that load quickly, work on a phone and behave the same in every browser your customers happen to use.

Explore our services Get in touch →

Look behind the result

Read the situation, decisions and result in this example. We can discuss which parts transfer to your constraints and which need another approach. Delivered full Progressive Web App support — installable, and readable at sea with no signal

Explore our services Get in touch →

Want your web app installable and offline-ready?

Talk through your project with the engineer responsible for delivery. We agree the scope, price basis and handover in writing before work begins.

Role context: Full Stack Engineer. It draws on Frontend Engineering, Full-Stack Development, Web Development, Reliability & Backups and Performance Tuning. And while you are here, we are rather good at Frontend Development and Website Development & CMS.

Get in touch Explore our services

One piece of **a longer record** — and it is all on this site.

Every entry is written the same way: the situation, the task, what we did and what changed.

See the whole record

Define the improvement you need

Describe the workflow, the existing interfaces and the users who need the change. We can define a testable delivery and a handover that lets your team maintain it.

See what it costs Get in touch →

Want your web app installable and offline-ready?

Ask about the decisions behind “Delivered full Progressive Web App support”. You will speak with the people who can explain the work and assess your own project.

Explore our services

welcome@engineer.company +45 50 10 61 84 Copenhagen, Denmark

Take this page with you

Contact card

Carefully Crafted With Love by D.

CVR 45969703 · Tagensvej 105C, 3. th, 2200 København N

Copyright © 2025 – present · Engineer ApS · All rights reserved.

Printed from https://software.engineer.company/portfolio/delivered-full-progressive-web-app-support/