

PWA

Progressive Web App





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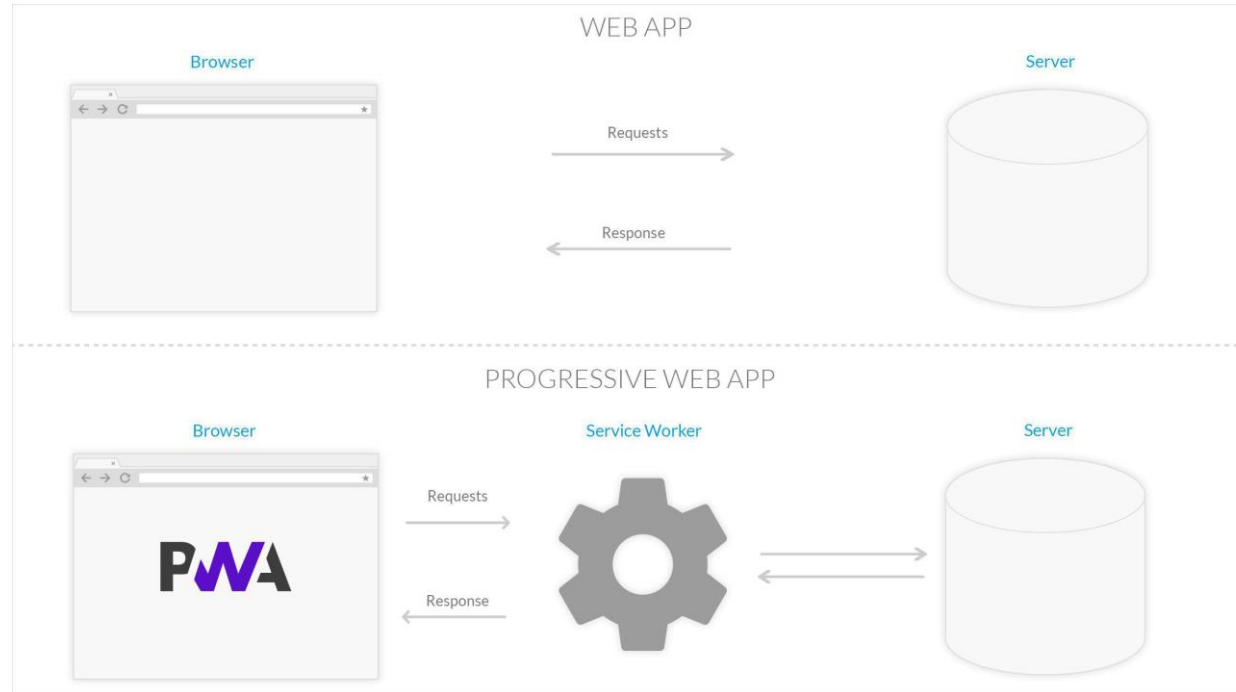
Il termine **Progressive Web App** (PWA, applicazioni web progressive) viene utilizzato per indicare una nuova metodologia per sviluppare software. Diversamente dalle applicazioni tradizionali, le progressive web apps sono un ibrido tra le normali pagine web (o siti web) e le applicazioni mobili. Questo nuovo modello di applicazioni cerca di combinare le possibilità offerte dalla maggior parte dei moderni browser con i benefici dell'utilizzo in mobilità.

https://it.wikipedia.org/wiki/Progressive_web_app

Few Requirements for PWA

- HTTPS
- Service Worker
- App Shell
- App manifest
- Connectivity-independent

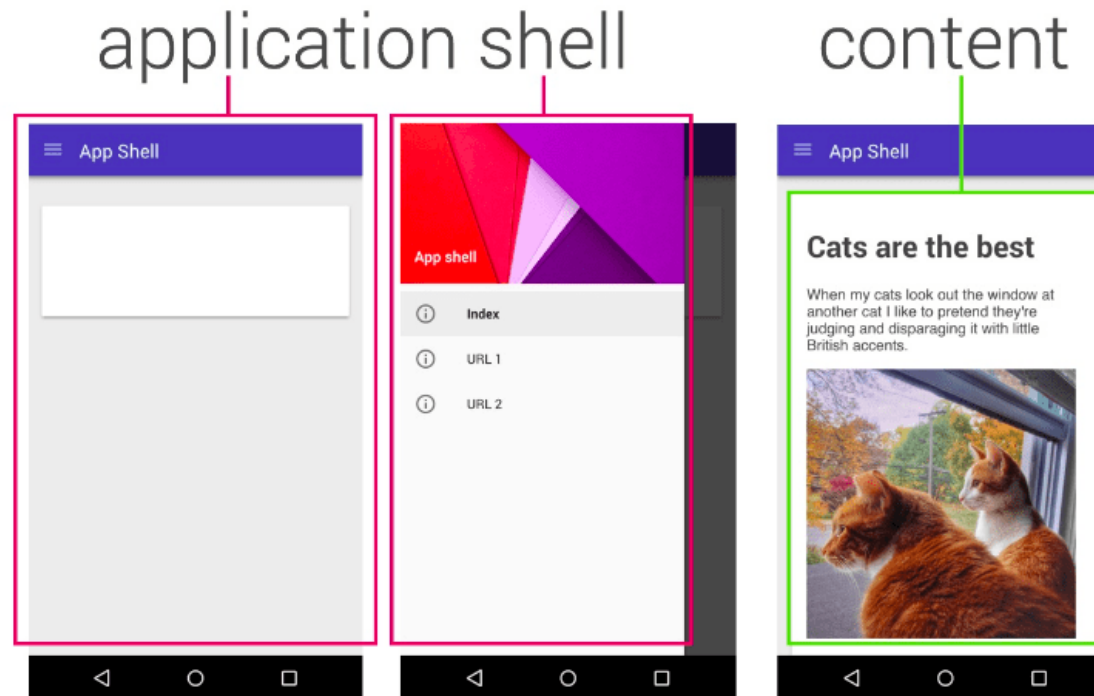
PWA: Service Worker



- Intercepting network requests
- Caching
- retrieving resources from the cache
- delivering push messages

https://blog.goodbarber.com/it/I-Service-Worker_a555.html

PWA: App shell



Cached shell loads **instantly** on repeat visits.

Dynamic content then populates the view

<https://developers.google.com/web/fundamentals/architecture/app-shell?hl=it>

PWA: Manifest

```
{
  "short_name": "AirHorner",
  "name": "Kinlan's AirHorner of Infamy",
  "icons": [
    {
      "src": "launcher-icon-1x.png",
      "type": "image/png",
      "sizes": "48x48"
    },
    {
      "src": "launcher-icon-2x.png",
      "type": "image/png",
      "sizes": "96x96"
    },
    {
      "src": "launcher-icon-4x.png",
      "type": "image/png",
      "sizes": "192x192"
    }
  ],
  "start_url": "index.html?launcher=true"
}
```

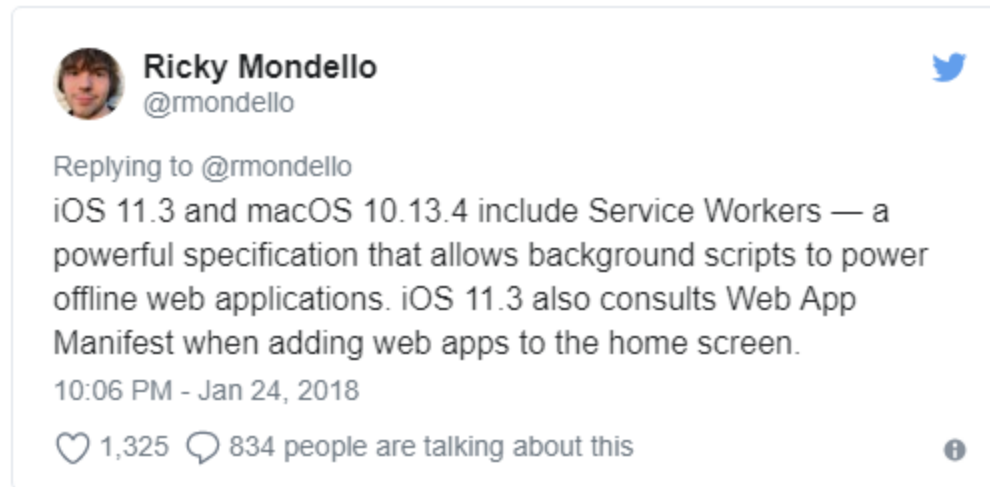


<https://developers.google.com/web/fundamentals/web-app-manifest/>

<https://developer.mozilla.org/en-US/docs/Web/Manifest>

PWA: Safari

Update : ios 11.3 supports web app manifest and service worker



Tweet about Service worker and manifest support

<https://medium.com/awebdeveloper/progressive-web-apps-pwas-are-coming-to-a-safari-near-you-216812aba5a>

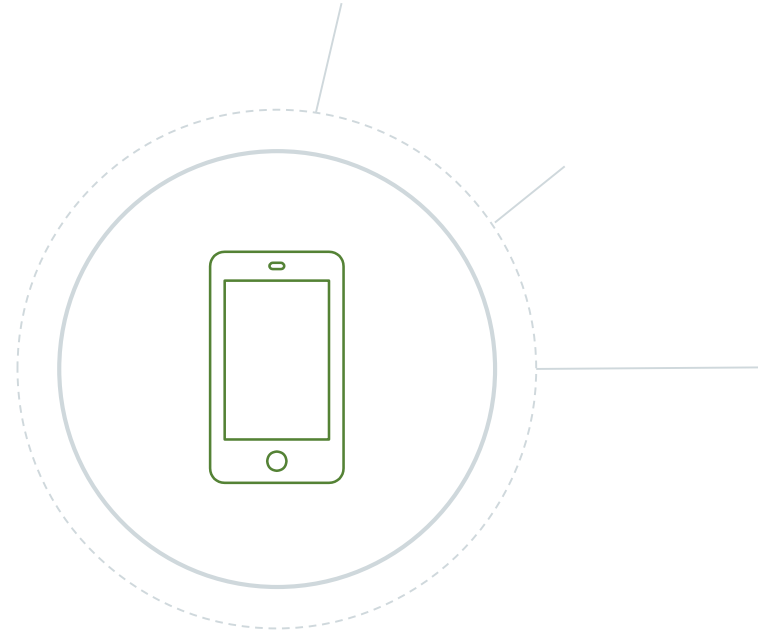
PWA: Sample

Table of Known Patterns for Building PWAs

Use-case	Patterns	Examples
Publishing	Full SSR	https://babe.news/ https://ampbyexample.com https://ampproject.org
Publishing	Application Shell	https://app.jalantikus.com/ https://m.geo.tv/ https://app.kompas.com/ https://www.nfl.com/now/ https://www.chromestatus.com
Publishing	AppShell + SSR content for entry pages	https://react-hn.appspot.com https://www.polymer-project.org/1.0/
Publishing	Streams for body content / UI	https://wiki-offline.jakearchibald.com/wiki/The_Raccoons
Social	AppShell	https://web.telegram.org/
E-commerce	Application Shell	https://m.aliexpress.com/ https://kongax.konga.com/ https://m.flipkart.com (mobile/emulate) https://m.airberlin.com/en/pwa https://shop.polymer-project.org/
E-commerce	AppShell + SSR content for entry page	https://selio.com/ (try on mobile/emulate) https://lite.5milesapp.com/ (partial)
Conference	AppShell	https://events.google.com/io2016/schedule

https://developers.google.com/web/ilt/pwa/introduction-to-progressive-web-app-architectures#table_of_known_patterns_for_building_pwas

Wireframe Prototipi e Mockup



Differenze

WireFrame

- Statico
- Solo contenuti e scheletro

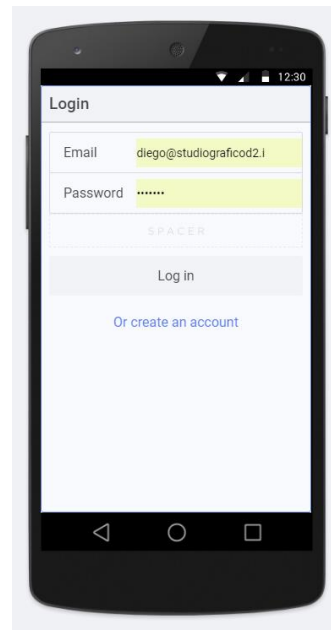
<https://balsamiq.com/>



Prototipo

- Interattivo
- Grafica ad alto livello
- Vicino al prodotto finale

<https://creator.ionic.io>



Mockup

- Statico
- Grafica alto livello

Adobe Photoshop

