

Progressive Web Apps

For dummies



Aldo D'Aquino





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🔒 demopress.aldodaquino.com

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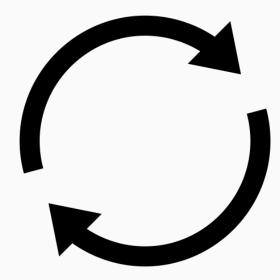
Responsive







Always fresh



Connectivity independent



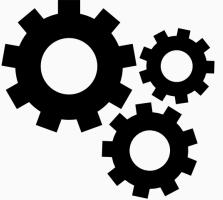
Immersive



What we need











ServiceWorker.js

Manifest.json

UX first

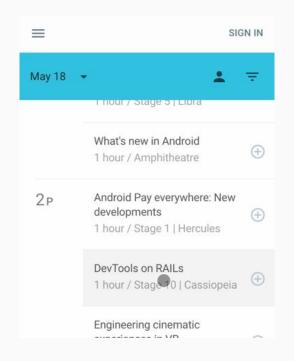
How to design a great UI

How to design a great UI

- 1. Be app
- → App-like design
- → System fonts
- → Non-selectable text in buttons and list items
- → Buttons instead of links
- 2. Fast and fluid transition
- → Cache first strategy
- → Give a feedback to the user

3. Back arrow should restore the previous scroll position

4. Show taps



How to test

https-localhost + Lighthouse

How to test

HTTPS server running on localhost

Run an express server on localhost with HTTP2 and SSL. Serve static files or import as module in your project.

https-localhost is a lightweight tool for serving static content on SSL thanks to locally-trusted development certificates. It works with MacOS, Linux and Windows, on Chrome and Firefox, and requires you no configuration.

	npm install http 4 dependencies 0 dependents	s -localhost version 4.0.0 updated 18 days a	ĝo		
build passing	coverage 100% de	pendencies up to date	vulnerabilities 0	issues 1 open	
Install ar	nd use stan	dalone			
npm i -g h	nttps-localhost				
serve ~/my	/proj				
	ay be necessary.				

- If a static path is not provided the current directory content will be served.
- You can change the port setting the PORT environmental variable: PORT=4433 serve ~/myproj.

How to test



App... how much?

Permissions available through the browser



		Ú
Offline (ServiceWorker.js)		-
Background sync	 ✓ 	×
Home installation	 ✓ 	~
Share (intent)	 ✓ 	×
Foreground detection	 ✓ 	

		Ú
Geolocation	~	~
Accelerometer, Gyroscope, Magnetometer, Orientation	~	~
Bluetooth	~	×
USB	 Image: A start of the start of	×
Payments	~	~

	Ú
Browser storage	✓
File access	√
Network type and speed	×
Online status	√
Vibration	×

	ı Î	Ú
Battery status		×
RAM size		×
Manage clipboard	~	
Mouse integration		
Presentation (Chromecast)	 ✓ 	×

		Ú
VR	~	×
Speech recognition	~	×
Fullscreen	~	~
Screen orientation & lock		×
Wake lock	1	×

Coming soon

- NFC
- Contacts
- SMS
- Ambient light
- Task scheduler in SW

Web permissions: TL;DR?

What Web Can Do Today Can I rely on the Web Platform features to build my app? An overview of the device integration HTML5 APIs				
FEATURES	TRAININGS	SERVICES		
✓ Feature avail	✓ Feature available in your current browser × Feature not available in your current browser			
Camera & Microphone	Native Behaviors	Seamless Experience		
AUDIO & VIDEO CAPTURE 🗸		OFFLINE MODE 🗸		
ADVANCED CAMERA CONTROLS 🗸	DUSH MESSAGES 🗸	A BACKGROUND SYNC 🗸		
🌵 RECORDING MEDIA 🗸	HOME SCREEN INSTALLATION ✓			
REAL-TIME COMMUNICATION 🗸	FOREGROUND DETECTION 🗸			
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