

Web applications

Including PWAs



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Single Page Application

A single-page application (SPA) is a web application or web site that fits on a single web page with the goal of providing a more fluid user experience akin to a desktop application.

-Wikipedia

Offline First

Stop treating a lack of connectivity like an error. Your app should be able to handle disconnections and get on with business as gracefully as possible.

Alex Feyerke <http://alistapart.com/article/offline-first>

Application types

- ✓ Responsive Web site
- ✓ Progressive Web App
- ✓ Hybrid App
- ✓ Native App

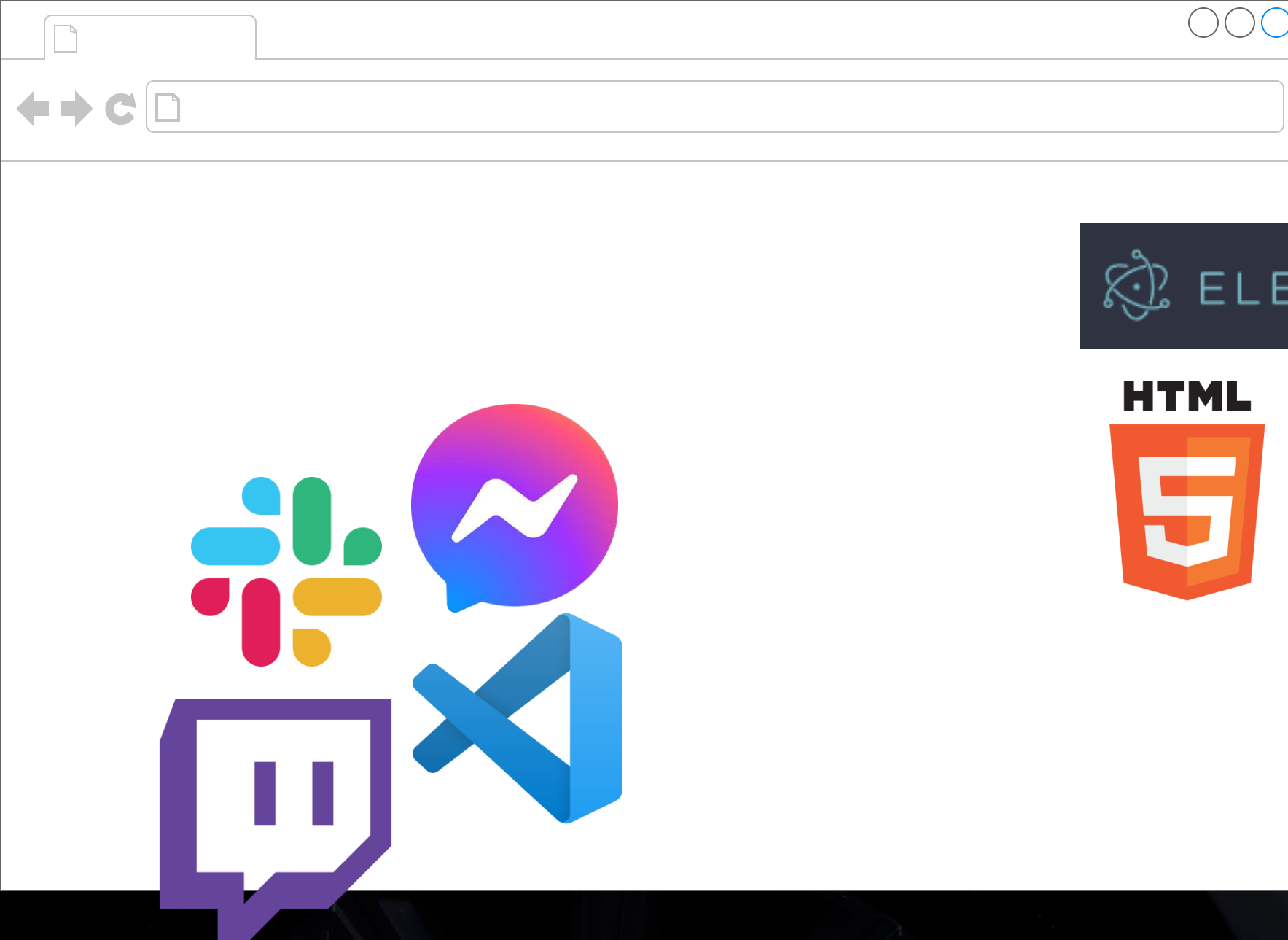
Native Apps

- ✓ The beginning of it all....
- ✓ Java, C++, Swift, Kotlin.....

Hybrid Mobile Apps

- ✓ Write applications in Javascript, HTML, CSS
- ✓ Generate native code





Progressive Web Applications

- ✓ Secure Context
 - https enforced (localhost is an exception)
- ✓ Makes heavy use of promises
- ✓ A mindset and a combination of technologies
- ✓ It is still early
- ✓ Android vs. iOS

PWA



Progressive Web Applications

- ✓ Progressive
- ✓ Discoverable
- ✓ Linkable
- ✓ Responsive
- ✓ Safe
- ✓ **Installable**
 - Service Workers, Manifest.json
- ✓ **Reliable**
 - routing/history, offline, cache
- ✓ **Capable**
 - Web APIs

PWA

	Responsive Web Site	Progressive Web App	Hybrid App	Native App
Code Base	One	One	One	Mutiple
Appstore	No	Some	Yes	Yes
Performance	None	Some	High	Highest
API Access	Some	Some	Many	All
Fast update	Yes	Yes	No	No
UX	No	Yes	Yes	Yes
Offline	No	Yes	Yes	Yes
Installable	No	Yes	Yes	Yes
Linkable	Yes	Yes	No	No

