

Your next app might need an app store—or it might

Native apps have long been the "real OG" of mobile

not need one at all.

experiences, but PWAs are flipping the script, promising: Native-like performance without the bulk.

Lightning-fast downloadability right from the browser.

Easy offline accessibility.

However, are they always the right choice? Our head-to-head comparison between PWAs and native apps

PWAs hit the sweet spot between web and mobile...

unpacks when and why to choose one over the other based on your

Native Apps vs. PWAs: **A Quick Snapshot**

business needs.

Native Apps Mobile applications built specifically for iOS or Android, offering high performance and deep integration with

device features.



working across different devices without

Challenges

Higher development &

maintenance costs

Requires separate

versions for iOS &

Requires app store installation

High performance, utilizes

hardware optimally

Approvals)

Codebases)

Complicated (Two

Higher

Full

Longer time to market

Android

requiring downloads.

Challenges **Benefits Features**

An Eagle's Eye View of PWAs

Built using standard web technologies (HTML, CSS, JavaScript)	Cost-effective (single codebase for all platforms)	May be more susceptible to cyberattacks like Cross-Site Scripting (XSS) and Cross-Site Request
Works across different devices and platforms	Fast updates without app store approval	Forgery (CSRF) and require additional security measures.
Installs directly from the browser without an app store	Search engine discoverability (SEO friendly)	Limited access to device hardware (e.g., Bluetooth, sensors)
Uses service workers for offline functionality	No installation required, lightweight storage	iOS support restrictions (push notifications,
Push notification support (limited on iOS)	Offline functionality via service workers	background sync)
Secure with HTTPS		Lower visibility compared to app stores
An Eagle's	Eye View of	

Stronger security with OS-specific encryption Full access to device

Benefits

High performance and

Full access to device

features (GPS, camera,

responsiveness

biometrics)

Native Apps

Features

Store)

Installation

Development Cost

Hardware Access

Maintenance

Developed separately for iOS

(Swift, Objective-C) and

Installed via app stores

(Google Play, Apple App

Android (Kotlin, Java)

Full access to device hardware and system	OS-specific encryption	due to app store approvals		
features Works offline with local storage capabilities	Superior user experience and smooth animations	Requires manual updates by users		
	App store credibility boosts downloads	by discris		
Optimized for platform- specific performance and security	Deesis dewilledas			
	. •			
PWAs vs. Native Apps: A Factor-by-Factor Analysis				
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Feature	PWA	Native App		
Platform Compatibility	Works across all devices via browsers	Separate iOS & Android development		

No app store required, browser-

Good for most apps, limited for **Performance** complex tasks

based

Offline Functionality	Limited via caching	Full offline capabilities		
Device Access	Limited (e.g., no Bluetooth, biometrics)	Full access to device features		
Security	Uses HTTPS but lacks deep security integration	Enhanced security with OS-level features		
Discoverability	Search engine indexed (SEO- friendly)	App store visibility only		
Updates	Automatic in-browser updates	Requires user download via app stores		
The Cost Breakdown of PWAs and Native Apps				
Factor	PWAs	Native Apps		
Codebase	Single	Separate for Android/iOS		
Time to Market	Faster	Slower (Multiple		

Limited budget for a native app. Need for rapid market entry.

When to Use PWAs

Essential cross-platform compatibility.

Requirement for offline functionality.

Desire to improve SEO performance.

Aim to enhance user engagement.

Targeting areas with unreliable

networks.

animations.

Lower

Moderate

Easier (One Codebase)

- When to use Native Apps
- Essential real-time push notifications. App store visibility and monetization. Need for complex background

processing needed.

High-performance graphics and

Need for deep device integrations.

Strict security and data encryption.

- **PWA or Native App Project?**

Define your goals

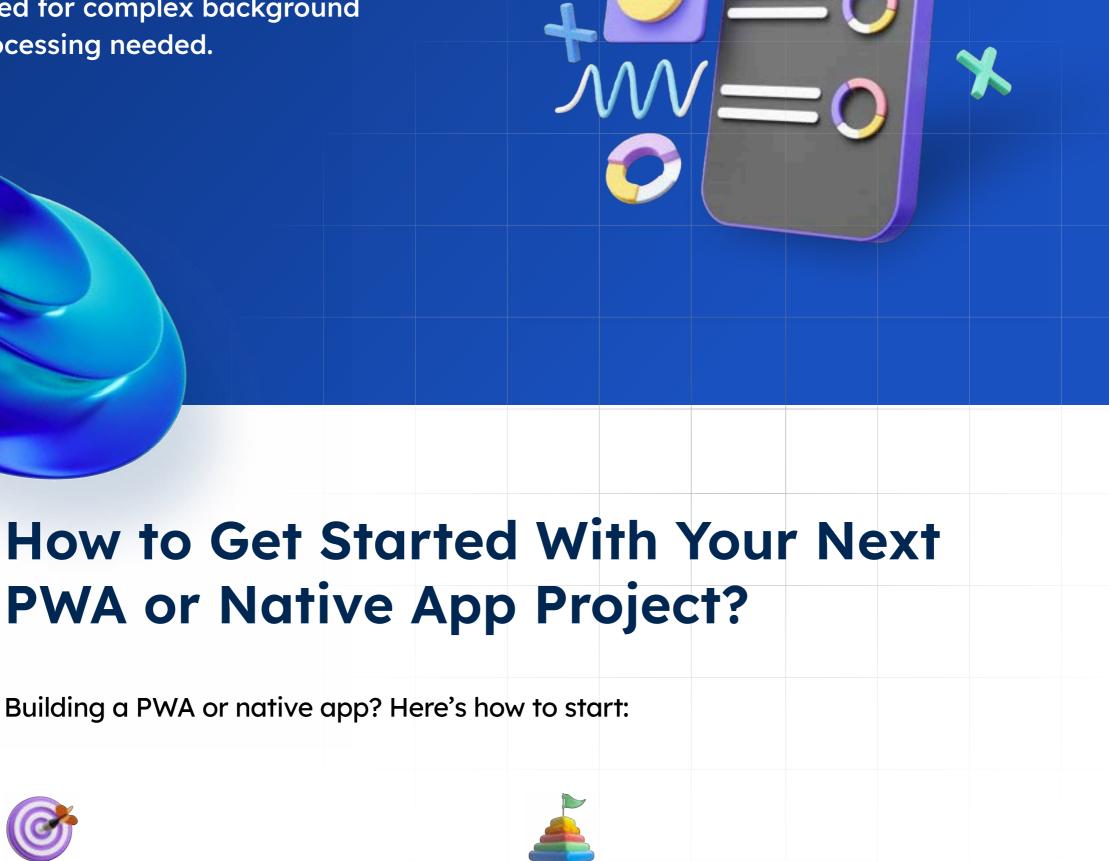
clear on what matters most.

Plan smart

Learn More

Is it speed, scalability, or user experience? Get

Act decisively and map out a risk-free, future-



Assess challenges

Identify roadblocks early.

Design & develop

What's thwarting your business goals?

Blending sleek UI/UX with powerful tech for a

ready strategy tailored to your needs. seamless user experience. Launch & scale Continuous innovation to keep your app ahead of the curve.

Still unsure how to move ahead?

Connect with experts at Unified Infotech

make your next app a true-blue success!

for the right guidance and direction to

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Founded in 2010, Unified Infotech is a global digital transformation



partner. We help turbocharge your growth by using cutting-edge technologies and the best-in-class processes and practices.

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