

App Platform comparison

Factors	Flutter	React Native	PWA
Pre built widget	Shear amount of widget available in the built in ecosystem https://flutter.dev/docs/development/ui/widgets	Make your own or use 3rd party https://reactnative.dev/docs/intro-react-native-components	Build your own component.
Development	State hot reload	State hot reload	No support
Animation and interaction	Flare support 60 fps	Flare flutter	No support
Update code base	Flutter update	Very difficult to update	N/A
How compilation/ Bundle size	It will bundle UI component to its equivalent ios/android button and then the logic or code behind the button will remain in jsx which will run on react natives virtual machine / Less	Natively compiled to both devices android and ios / More	Web browser chrome
Maintainers	Flutter and dart go hand in hand	Javascript and react native maintainers are different	N/A
Ecosystem of libraries	No need to reinvent the wheel or use 3rd party	Less prebuilt component Handed over to community Not well maintained Eg: react map, react fingerprint	All web libraries
Eg libraries	https://pub.dev/packages/upi_in_dia https://razorpay.com/docs/payment-gateway/flutter-integration/	https://www.npmjs.com/package/react-native-upi-payment	
Learning curve	Quite steep, you need to pick up Dart, and reactive programming isn't all intuitive	Easy to pick up, especially if you used to React or Javascript before	

Used by	Google Ads, Alibaba, Reflectly, Birch Finance	Facebook app	Uber, Twitter, Android Messages, Telegram, Tinder
Release	May 2017	Jan 2015	Progressive 😊
USP	Fast, True cross platform	Good for react tech stack	Accessibility
Cons	<ul style="list-style-type: none"> • Size of the developer community • Libraries & support is impressive but not as productive as native development • Continuous Integration support • Relative maturity • Reactive programming is not very intuitive 	<ul style="list-style-type: none"> • It isn't Native • Fewer components out of box • Developer freedom of choice • Lots of abandoned packages and libraries • Fragile UI • Apps are bigger than native ones 	<ul style="list-style-type: none"> • Limited functionality that is PWAs can't support native app typical features like fingerprint scanning, NFC, inter-app communication, and camera controls. • Limited hardware & software support. • No download app store presence.