THE ANATOMY OF PROGRESSIVE WEB APPS

AND HOW TO USE THEM

PROGRESS WEB APPS (PWAS) ARE HERE, AND THEY MAY BE THE KEY TO DELIVERING **WINNING MOBILE EXPERIENCES THIS 2017.**

By utilizing modern web capabilities, PWAs delivers app-like user experiences to the mobile audience. Google describes them as fast, engaging, and guaranteed to work regardless of the user's network conditions. In short, they are everything a mobile user would ask for.

ADDI KEREATURES

HERE'S EVERYTHING YOU NEED TO LEARN **ABOUT PWAS:**

WHAT'S INSIDE ROGRESSIVE

PWA

Take note that a PWA can be any site that has app-like features. To help publishers leverage this technology, Google published a simple checklist that describes what PWAs should aim to be:

OPTIMIZED

A PWA SHOULD FEEL LIKE A NATIVE MOBILE APP BY PROVIDING TOUCH

INTERACTIONS. SOME EXAMPLES

INTEGRATE APIS FOR IMPORTANT TASKS. APIS SUCH AS THE CRED-

THE PAYMENT REQUEST API MAKE

EXTENDED FEATURES OF YOUR PWA.

INSIGHTS FOR RECOMMENDATIONS

ENTIAL MANAGEMENT API AND

IT EASY FOR USERS TO ACCESS

FAST TO LOAD EVEN WITH A 3G

CONNECTION. USE PAGESPEED

ON HOW YOU CAN IMPROVE

PAGE LOADING SPEED.

INCLUDE TOUCH FEEDBACK,

GESTURES, AND SCROLLING.

FOR TOUCH.

PWA



NATURALLY, YOUR SITE **NEEDS MOBILE RESPONSIVE-NESS TO CATER TO TABLET** AND SMARTPHONE USERS.

THE WEBSITE **LOADS OVER** HTTPS.

BY USING THE HTTPS PROTOCOL, YOU CAN ESTABLISH ENCRYPTED CONNECTIONS BETWEEN USERS AND THE WEB SERVER. THIS ALSO ENABLES THE USE OF SERVICE WORKERS.

USE "SERVICE WORKERS TO LOAD PAGES EVEN WHILE OFFLINE. THESE ARE SCRIPTS THAT BROWSERS

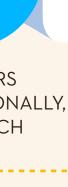
RUN IN THE BACKGROUND. ADDITIONALLY. THEY MAKE APP-LIKE FEATURES SUCH AS SYNCHRONIZATION AND PUSH NOTIFICATIONS POSSIBLE.



A GOOD STRATEGY IS TO

CONTENT AS YOU MOVE TO THE NEXT PAGE. A LOADING ANIMATION PROMPTS USERS THAT THE SITE IS CURRENTLY FETCHING INFORMATION.

UTILIZE PLACEHOLDERS FOR





WITH ALL **MOBILE BROWSERS.** PERFORM INDEPENDENT

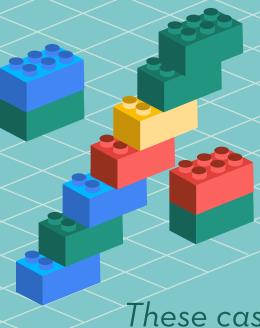
TESTING ACROSS POPULAR

BROWSERS SUCH AS MICROSOFT EDGE, CHROME, OPERA, FIREFOX, AND SAFARI.



THE SITE CAN **BE ADDED TO** THE HOME SCREEN.

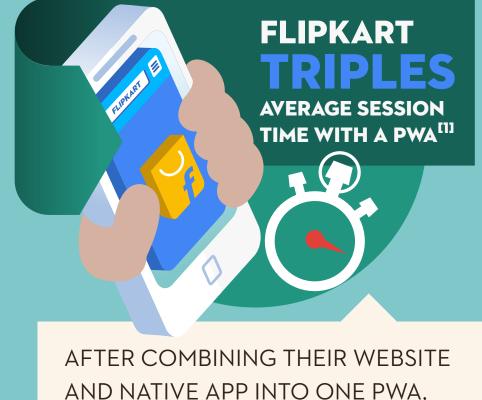
JUST LIKE A NATIVE APP, A PWA MUST BE ACCESSIBLE WITHOUT HAVING TO OPEN A MOBILE BROWSER. THIS CAN BE DONE BY CREATING A WEB APP MANIFEST. WHICH ALLOWS YOU TO SET AN ICON AND NAME.



BAPPSBY THE NUMBERS Still not convinced that Progressive Web Apps are the future of mobile marketing?

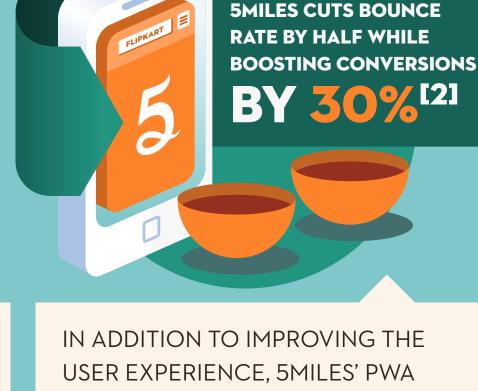
OGRESSIVE

These case studies will make you think again:



INDIA'S BIGGEST E-COMMERCE

BRAND ACHIEVES 40% HIGHER REENGAGEMENT RATE. 70% BOOSTED CONVERSION RATE. AND UP TO 3X MORE TIME SPENT ON THEIR WEBSITE.



TO 30% HIGHER CONVERSIONS. THE NEW PROGRESSIVE WEB APP **ALSO CUTS THE SITE'S BOUNCE RATE BY 50%**. **JUMIA GETS**

FEATURED THE "ADD TO HOME

SCREEN" FUNCTION, WHICH LED



FOR EMAIL SUBSCRIPTIONS AND

ONLINE STORE PURCHASES.



PWAS. THEIR PUSH NOTIFICATIONS

GENERATED A CONVERSION RATE

OF 7.85%, MUCH HIGHER THAN

THEIR NATIVE APP'S 4.5%.



COMPANIES AND MOBILE USERS ALIKE ARE NOW REAPING THE BENEFITS OF PWAS. AS A BUSINESS, YOU NEED TO EMBRACE NEW TECHNOLOGY AND GIVE YOUR AUDIENCE SOMETHING FRESH. IT'S YOUR TURN TO LAUNCH YOUR OWN PWA DEVELOPMENT PROJECT.

REFERENCES

- 1. Google Developers "Flipkart triples time-on-site with Progressive Web App" 2. Google Developers - "5miles" 3. InfoQ - "Can Your Company Benefit from a Progressive Web App?" (November 7, 2016)

4. Business.com - "Progressive Web Apps Increase Conversion Rates: What You Need to Know" (December 2, 2016)

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