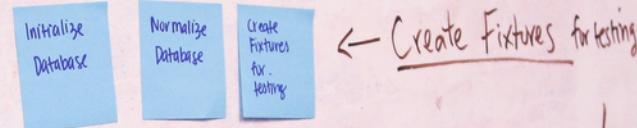


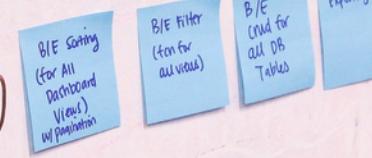
1) WEEK 4: Design



2) WEEK 5: Design

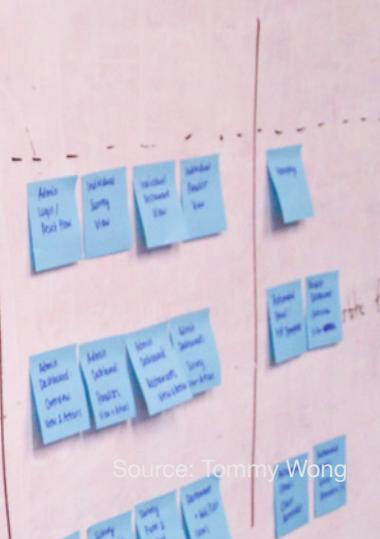
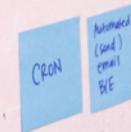


3) WEEK 6: Dev



ADMIN

API



RAPID MOBILE APPLICATION PROTOTYPING IN THE CLOUD

Bernard Suen
Center for Entrepreneurship
Chinese University of Hong Kong

Recap

1. API as a **product feature**.
2. **No-code/low-code development**
using WordPress.
3. **Transforming** HTML/CSS/JS
templates into WordPress theme.



Google Cloud Platform



Prediction API



Natural Language
API



Translation API



Vision API



PayMe Marketplace API
PayMe • paymeapi

Documentation

Inspector



PayMe Marketplace API

Download
API Blueprint

INTRODUCTION

API Capabilities and Structure

Getting Started and Connection Details

Service URLs

Credit Card Numbers for Testing Purposes

INTRODUCTION

Our API is designed to allow platforms to offer a full payment solution as part of their product.

Using the API you can:



微信支付
WeChat Pay

Home

Documents

WeChat payment API development documents, [Chinese](#)



Quick Pay

Buyers can present the pay code, vendor will scan the code to finish the transaction.



Alibaba Open Platform

Home

Resources

Platform

▶ Tmall.hk

API for Alibaba ▾

Sourcing API : [Click here](#)

WholeSale API:[Click here](#)

WP5961 New Autoptimize Toggle Airpress Debugger Howdy, [Profile]

Dashboard Posts Media Pages Comments BuddyForms Ultimate Member User Frontend Appearance Plugins Add New Plugin Editor Users Tools Settings Custom Fields Airpress CPT UI Wordfence 1 All Export Collapse menu

52,222 items 1 of 1,451 < > >>

Contact Form 7
Just another contact form plugin. Simple but flexible.
By Takayuki Miyoshi

★ ★ ★ ★ ★ (1,823) Last Updated: 1 month ago ✓ Compatible with your version of WordPress
5+ Million Active Installations [Install Now](#) [More Details](#)

Yoast SEO
Improve your WordPress SEO: Write better content and have a fully optimized WordPress site using the Yoast SEO plugin.
By Team Yoast

★ ★ ★ ★ ★ (27,279) Last Updated: 1 week ago ✓ Compatible with your version of WordPress
5+ Million Active Installations [Install Now](#) [More Details](#)

Classic Editor
Enables the previous "classic" editor and the old-style Edit Post screen with TinyMCE, Meta Boxes, etc. Supports all plugins that extend thi...
By WordPress Contributors

★ ★ ★ ★ ★ (903) Last Updated: 4 months ago ✓ Compatible with your version of WordPress
5+ Million Active Installations [More Details](#)

Akismet Spam Protection
The best anti-spam protection to block spam comments and spam in a contact form. The most trusted antispam solution for WordPress and WooCommerce.
By Automattic

★ ★ ★ ★ ★ (909) Last Updated: 1 month ago ✓ Compatible with your version of WordPress
5+ Million Active Installations [Install Now](#) [More Details](#)

Elementor Website Builder
The Elementor Website Builder has it all: drag and drop page builder, pixel perfect design, mobile responsive editing, and more. Get started now!
By Elementor.com

★ ★ ★ ★ ★ (5,556) Last Updated: 3 weeks ago ✓ Compatible with your version of WordPress
5+ Million Active Installations [Install Now](#) [More Details](#)

WooCommerce
WooCommerce is the world's most popular open-source eCommerce solution.
By Automattic

★ ★ ★ ★ ★ (3,654) Last Updated: 8 hours ago ✓ Compatible with your version of WordPress
5+ Million Active Installations [Install Now](#) [More Details](#)

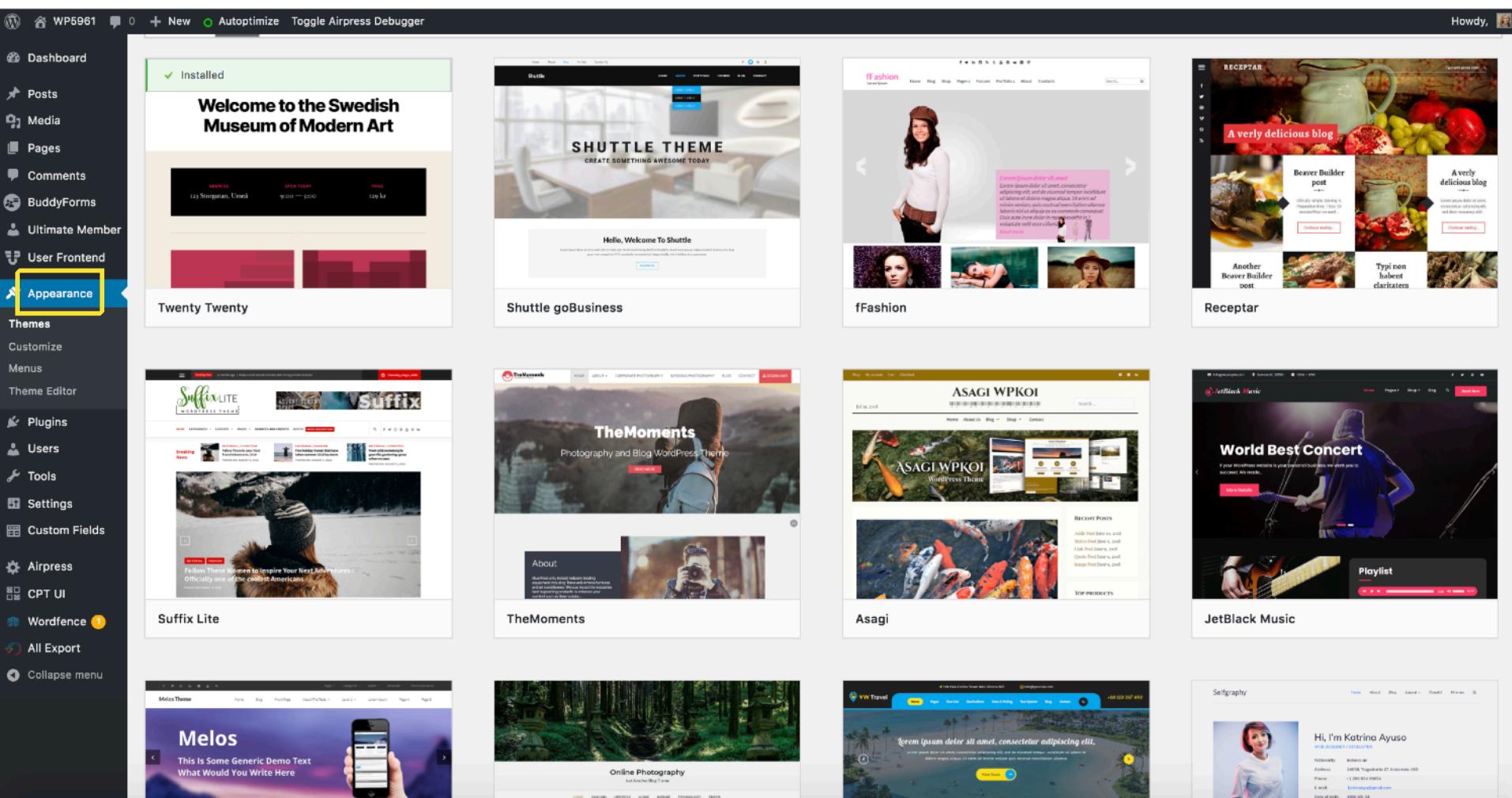
Jetpack – WP Security, Backup, Speed, & Growth
The best WP plugin for backup, anti-spam, malware scan, CDN, AMP, social, search, contact form, and integrations with Woo, Facebook, Instagram, Google
By Automattic

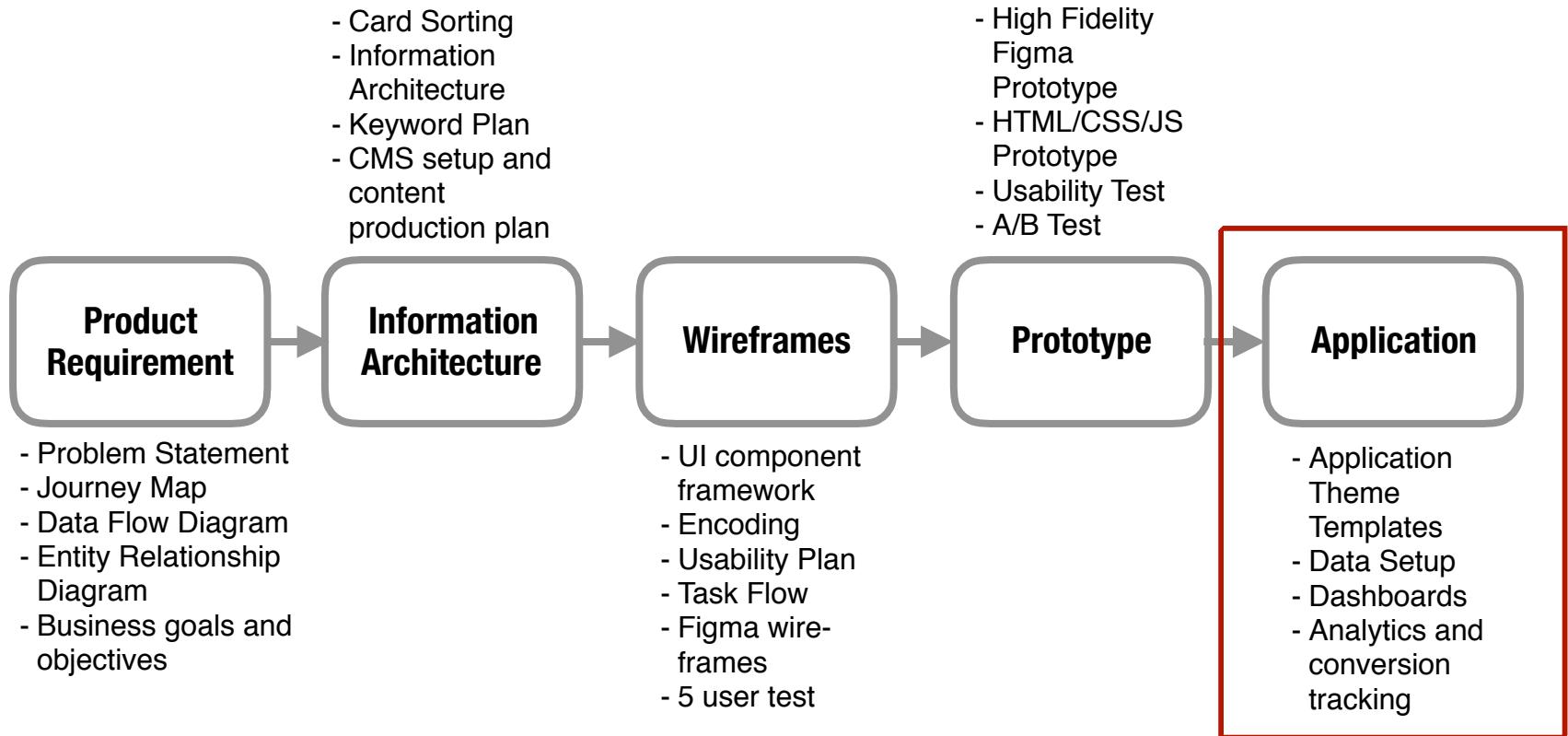
★ ★ ★ ★ ★ (6,109) Last Updated: 19 hours ago ✓ Compatible with your version of WordPress
5+ Million Active [Install Now](#) [More Details](#)

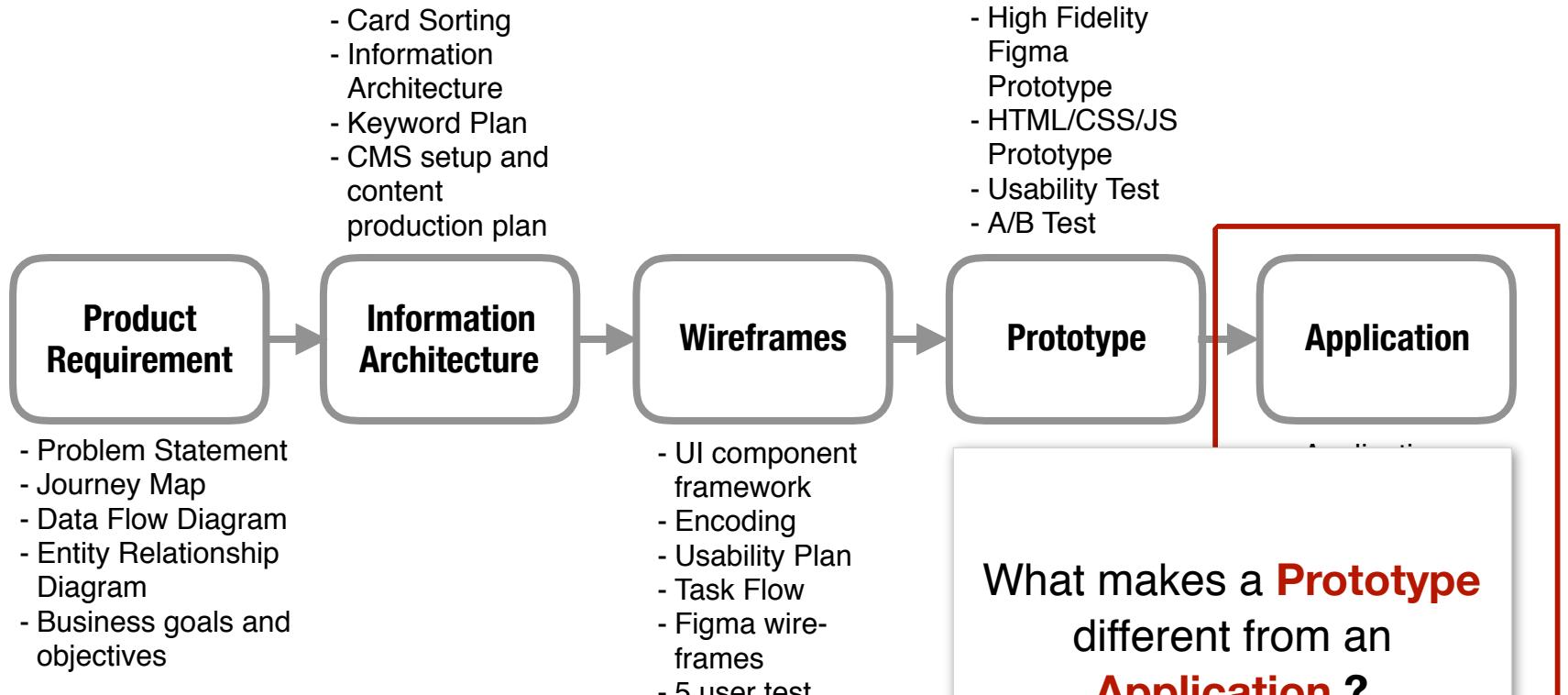
Really Simple SSL
No setup required! You only need an SSL certificate, and this plugin will do the rest.
By Really Simple Plugins

★ ★ ★ ★ ★ (297) Last Updated: 8 months ago Untested with your version of WordPress
4+ Million Active [Install Now](#) [More Details](#)

WordPress Importer
Import posts, pages, comments, custom fields, categories, tags and more from a WordPress export file.
By wordpressdotorg





What makes a **Prototype** different from an **Application** ?

**Applications have to take into account
the **operational requirements**.**



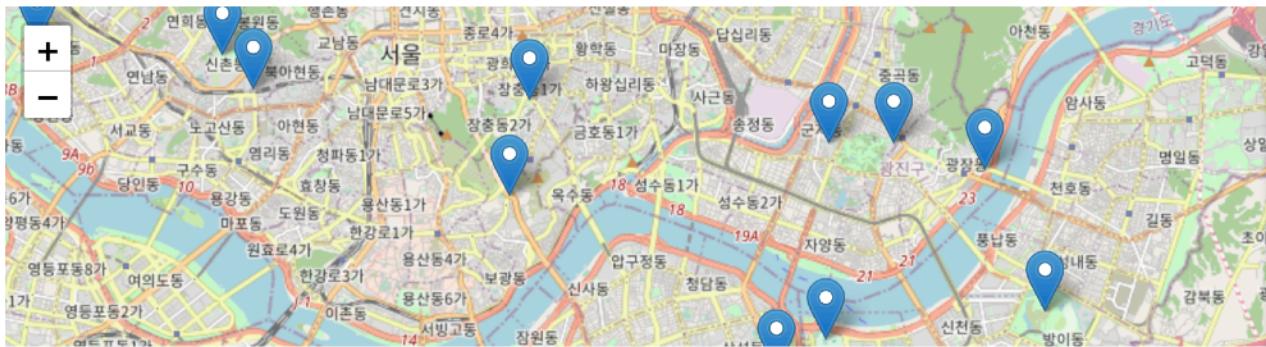
Source: <https://jasmine1022.github.io/SeoulConcertMap>

一键查看所有推荐去处的具体信息

<input type="checkbox"/>	名称	类型	TripAdvisor...	行政区	地址	交通
1	梨花女子大学	文化场所	1115	西大门区	梨花女大街52	2号线梨大(Ewha Woman)
2	庆熙大学	文化场所	123	东大门区	庆熙大路26	1号线回基(Hoegi)站1号出
3	高丽大学	文化场所	53	城北区	安岩路145	6号线安岩(Anam)站1/2号
4	景福宫	文化场所	10421	钟路区	社稷路161	3号线景福宫(Gyeongbok)
5	北汉山国立公园	文化场所	1067	城北区	辅国门路262	4号线吉音(Gireum)站2号
6	韩国国立中央博物馆	文化场所	2303	龙山区	西冰库路137	4号线二村(Ichon)站2号出
7	三清阁	文化场所	112	城北区	大使馆路3	5号线光化门(Gwanghw)
8	北村韩屋村	文化场所	5138	钟路区	北村路11街...	3号线安国(Anguk)站
9	洪陵树木园	公园广场	21	东大门区	回基路57国...	6号线高丽大(Goryeodae)
10	纛岛汉江公园	公园广场	24	广津区	峨嵯山路200	2号线建大入口(Konkuk U)
11	汝矣岛公园	公园广场	637	永登浦区	汝矣岛洞330	5号线汝矣渡口(Yeoui-na)
12	奥林匹克公园	公园广场	695	松坡区	奥林匹克路...	5号线/9号线奥林匹克公园

<input type="checkbox"/>	名称	类型
1	梨花女子大学	文化场所
2	庆熙大学	文化场所
3	高丽大学	文化场所
4	景福宫	文化场所
5	北汉山国立公园	文化场所
6	韩国国立中央博物馆	文化场所
7	三清阁	文化场所
8	北村韩屋村	文化场所
9	洪陵树木园	公园广场
10	纛岛汉江公园	公园广场

点击查看所有场馆具体位置



点击查看场馆最多容纳人数

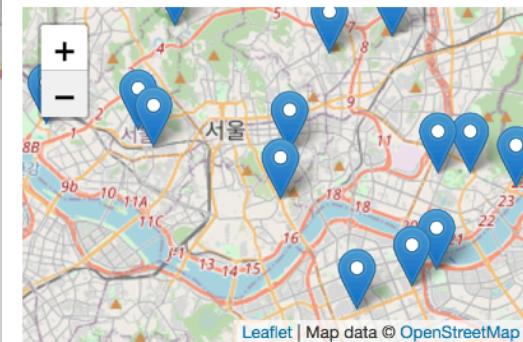
500-1499

100-2999

3000-9999

10000以上

点击查看所有场馆具体位置



点击查看场馆最多容纳人数

Seoul Concert Map

HELP ? 🔔 🚙



SEO keywords

ParseHub&OpenRefine-performances

Location

Picture



SHARE

AUTOMATIONS

APPS

VIEWS

Grid view



Hide fields

Filter

Group

Sort

Color



Share view



Find a view



Grid view



Create a view

Grid



Form



Calendar



Gallery



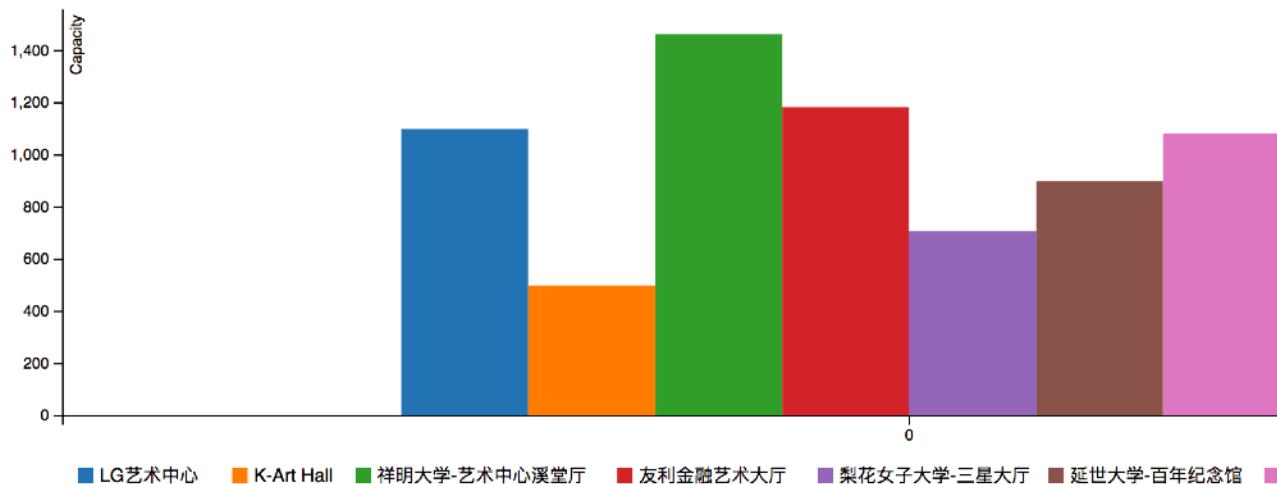
Kanban



	Name	lat	Lng	images	img_url
1	首尔世界杯体育场(Seoul ...	37.568222	126.897361		https://dl.airtable.com
2	高尺天空巨蛋球场(Gocheo...)	37.498222	126.867250		https://dl.airtable.com
3	奖忠体育馆(JangChung Ar...	37.558056	127.006667		https://dl.airtable.com
4	高丽大学化汀体育馆	37.592916	127.024666		https://dl.airtable.com
5	庆熙大学和平殿堂	37.598943	127.052638		https://dl.airtable.com
6	世宗大学大洋厅	37.550540	127.073203		https://dl.airtable.com
7	祥明大学艺术中心溪堂厅	37.602782	126.955198		https://dl.airtable.com
8	Yes24 Live hall	37.545816	127.108096		https://dl.airtable.com
9	忠武艺术中心大剧场	37.566280	127.014589		https://dl.airtable.com
10	LG艺术中心	37.502166	127.037181		https://dl.airtable.com
11	环球艺术中心	37.550535	127.087630		https://dl.airtable.com
12	COEX Artium Theater	37.510421	127.061536		https://dl.airtable.com
13	纳鲁艺术中心(Naru Arts C...	37.537600	127.070525		https://dl.airtable.com
19 records		Sum 713.447114	Sum 2413.315071		

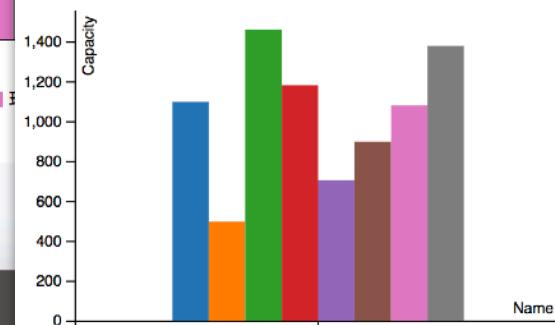
点击查看场馆最多容纳人数

500-1499 100-2999 3000-9999 10000以上



点击查看场馆最多容纳人数

500-1499 100-2999 3000-9999
10000以上



Seoul Concert Map

HELP ? 🔔 🚙



演出类型汇总

演出计划

SEO keywords

ParseHub&OpenRefine-perf...



SHARE

AUTOMATIONS

APPS

VIEWS

Grid



Hide fields

Filter

Group

Sort

Color



Share view



Find a view



Grid



Calendar using "start date"

Gallery

Kanban stacked by "genre"

Create a view

Grid



Form



Calendar



Gallery



Kanban



	A performance_name	B1 performance_start date	B1 performance_end date	A performance_casts1
1	2019 VIXX LIVE FANTA...	9/28/2019	9/29/2019	VIXX
2	2019 Yeon Woo Jin 10t...	9/28/2019		Yeon Woo Jin
3	2019 H.O.T 「High-five ...	9/20/2019	9/22/2019	H.O.T
4	The 11th Anniversary Fa...	9/21/2019		IU
5	2019 Kim Dong Han Fa...	9/21/2019		Kim Dong Han
6	Masterpiece of You wit...	9/21/2019		Real Slow
7	2019 Ryu Jun Yeol BIRT...	9/21/2019		Ryu Jun Yeol
8	BLACKPINK 2019 PRIV...	9/21/2019		BLACKPINK
9	2019 SEVENTEEN WOR...	8/30/2019	9/1/2019	Seventeen
10	2019 Yim Siwan Fanme...	9/8/2019		Yim Siwan
11	GWSN(Girls in the Park...	9/8/2019		GWSN
12	2019 Son Ho-young & ...	8/23/2019	8/25/2019	Son Ho-young&Kim Tae-...
13	JUNJIN ON AIR 2019	8/17/2019		Junjin
94 records				

Seoul Concert Map

HELP ? 🔍 🔔 🚙



演出类型汇总

演出计划

SEO keywords

ParseHub&OpenRefine-perform



SHARE

AUTOMATIONS

APPS

IEWS

Grid



Hide fields

Filter

Group

Sort

Color



Share view



Find a view



Grid



Create a view

Grid



Form



Calendar



Gallery



Kanban

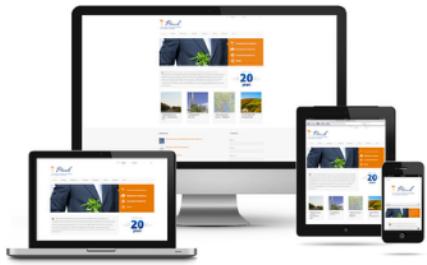


7 records

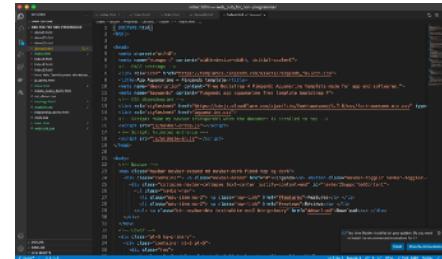
Keyword Phrase	Monthly Search Volume	CPC	PPC Competition	Related
Kpop concert	3600	0.51	0.02	viagogo
Seoul concert	1900	0.33	0.04	yes24, me
Seoul subway map	14800	0.18	0.05	seoul stati
Seoul map	12,100	0.24	0.06	
Gocheok Sky Dome	6600	0.37	0.03	
Seoul Olympic Stadium	4400	0.41	0	
Seoul Olympic Park	2900	0.43	0.01	

Turning Prototype into Applications

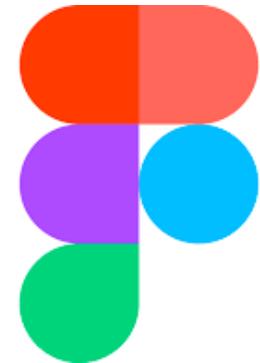
Browser
Screen Display



HTML/CSS/JS
Template Development



FIGMA
Design and Prototyping

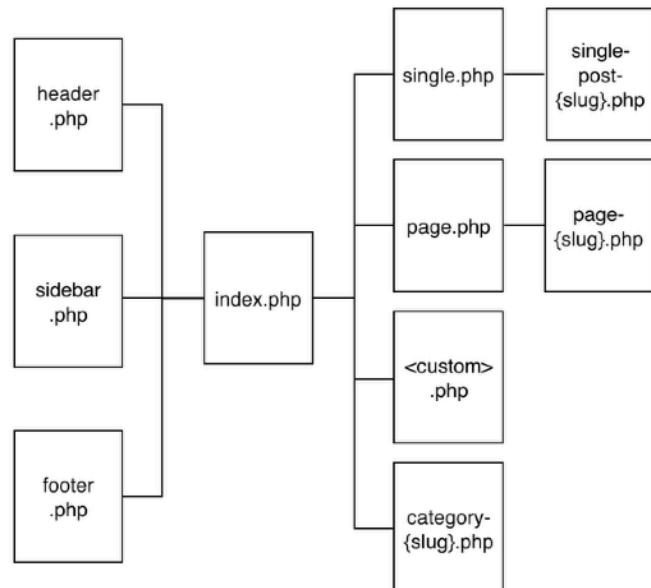


Development and Testing Stage

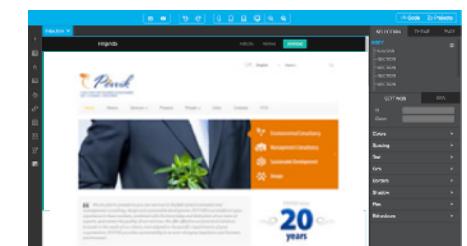
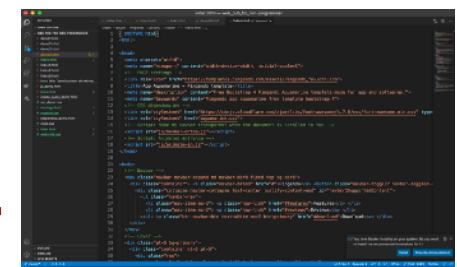
Browser Screen Display



CMS/WordPress Theme Conversion



HTML/CSS/JS Template Development



Production and Operation Stage

Today's Agenda

1. **Membership formation and conversion for building online community.**
2. **Different ways to develop mobile apps.**
3. **No-code/low-code trend in Internet product development.**
4. **Micro-services and API for Internet product and platform development.**

Membership



登入

注册

全部
地区
排名
中国学生比率



英国

院校排名

專業排名

申請貼士

你想看的，這裡都有。

隨意看看

或 [按條件選擇](#)



【民·潮】特展 | 张信哲和他...

开始日期
2020年10月16日

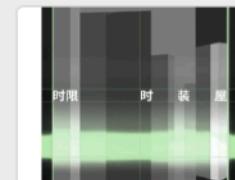
反转



叶茂中画展

开始日期
2020年10月1日

反转



CLUB ADVENTUBE 「时限...」

开始日期
2020年10月8日

反转



第二届日本平面设计展「日...」

开始日期
2020年10月2日

反转



百年上海设计

开始日期
2020年10月1日

反转

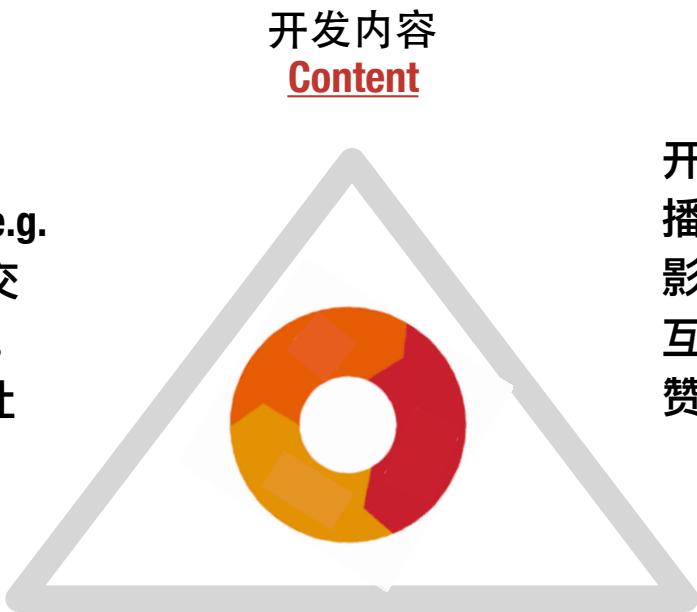
What are the **advantages of registering as
a member? What will a member **see** and
act that a non-member won't?**

Internet + 的3C法則

流量增加有助促成网下销售(e.g. 展销会trade-fair)和网上订购交易(e.g. 电子商贸e-commerce)。收入所得可再投放在内容及社群发展

促成交 Commerce

利用社交媒体、KOL、视频、电邮推广，连接公司网站和网下活动，把用户流量由网上推往网下，再由网下活动、单张、QR Code，把用户流量推回网上



开发内容 Content

开发產品/服务及相关的包装和传播内容(e.g.文字、图片、动画及影片)，针对目标社群上载内容互联网，引发别人欣赏、分享和赞助

建立社群 Community

Basic Conversion Cycle

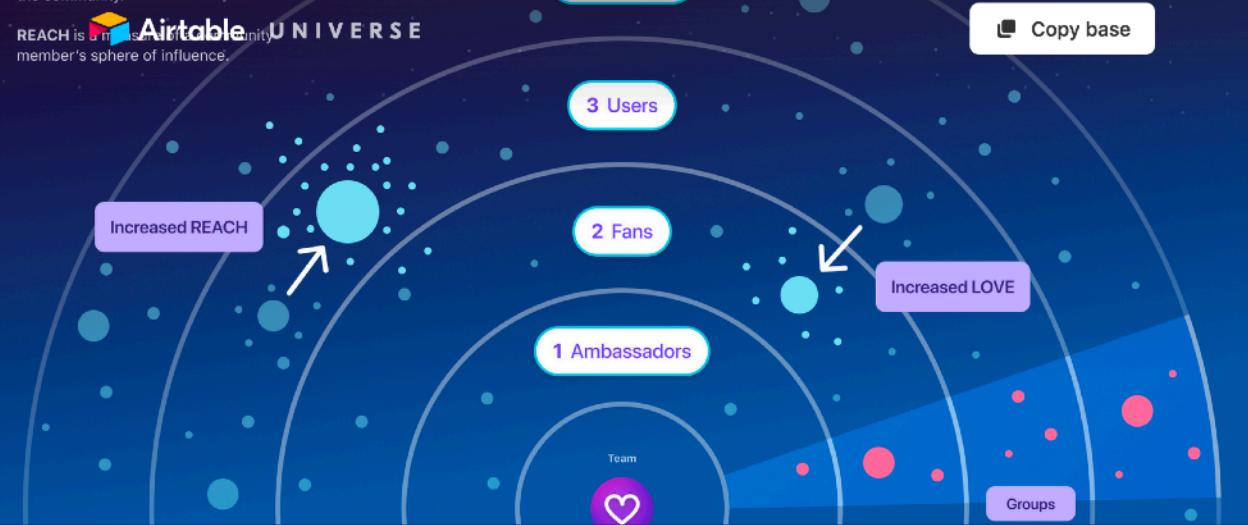
- Visitor (Acquisition)
- Member (Retention)
- Customer (Monetization)

What kind of business model can be built around the community? How do your competitors make money to stay in business?

Tracking Community **Stickiness** with Airtable

LOVE is a measure of a member's activity in the community.

REACH is a measure of a member's sphere of influence.



Updated 8 months ago
Copied 62 times

[Tweet](#) [Share](#) [1](#)



Patrick Woods

Community CRM Based on the Orbit Model

#OPERATIONS #MARKETING AND SALES #LOCAL INTEREST

Members

All Members

Grouped by Orbit L...

Grouped by Compa...

Grouped by Location

High Love in San Fr...

Ambassadors and ...

All Fields

Explore the base →

Activity History

All Activities

Grouped by Member

Grouped by Activit...

Activity Types

All Activity Types

Grouped by category

12 hidden fields

<input type="checkbox"/> Name
1 Alexander Hill
2 Michelle Winslow
3 Joshua Taylor
4 Justin Jenkins
5 Eric Wilson
6 Joan Howard
Jacob Johnston
8 Amy Rutherford
9 Kyle Wang
10 Crystal Saldivar
11 Neil Rees
12 Heather Abraham
13 Katherine Powell
14 Pippa Johnston
Daniel Zehra
50 records

<https://airtable.com/universe/expDdB7D8qMQVojpJ/community-crm-based-on-the-orbit-model>

[Home](#)[Solutions](#)[Blog](#)[Careers](#)[About Us](#)[Help](#)

Introducing the Orbit Model Airtable Template

Measure the Love and Reach of your community and visualize the results.



Patrick Woods

March 18, 2020



<https://orbit.love/blog/introducing-the-orbit-model-airtable-template>

Orbit Model Community CRM

HELP ? 🔔 🚙



Members

Activity History

Activity Types



VIEWS

All Members



Find a view



All Members



Grouped by Orbit Level

Grouped by Company

Use a suggested view ✨

Grouped by "Location"



"Location" Kanban



Create a view

Grid



Form



Calendar



Gallery



Kanban



	A Name	f Orbit Level Suggest...	f Love	f Reach	f Activity Score	# Twitter
1	Alexander Hill	1 - Ambassadors	10	8	31	
2	Michelle Winslow	1 - Ambassadors	9	10	19	
3	Joshua Taylor	1 - Ambassadors	9	8	9	
4	Justin Jenkins	1 - Ambassadors	9	10	17	
5	Eric Wilson	2 - Fans	8	6	17	
6	Joan Howard	2 - Fans	8	10	17	
7	Jacob Johnston	2 - Fans	7	8	17	
8	Amy Rutherford	2 - Fans	7	10	17	
9	Kyle Wang	2 - Fans	7	10	7	
10	Crystal Saldivar	2 - Fans	6	2	10	
11	Neil Rees	2 - Fans	6	4	19	
12	Heather Abraham	2 - Fans	6	8	6	
13	Katherine Powell	2 - Fans	6	8	6	
14	Pippa Johnston	2 - Fans	6	2	6	
50 records			Sum 217	Avg 7	Sum 361	



Members

Activity History

Activity Types



VIEWS

Member Registration



Share form

Open form

Find a view



All Members

Grouped by Orbit Level

Grouped by Company

Grouped by Location

Use a suggested view ✨

Grouped by "Location"

"Location" Kanban

Create a view

Grid



Form



Calendar



Gallery



Kanban



Fields

Twitter

A Contact

Actions

Drag

+ Add

This form is shared via a private link

People with the private link can only see the empty form. The title of this page is the view name, "Member Registration".

<https://airtable.com/shr8GiPh1r172tyc6>[Upgrade to restrict by password or email domain ✨](#)[Embed this form on your site](#)[Disable shared view link](#)

Add a cover image

tration

Add a description for this form

Name



Embed view

↔ Embed code

Member Registration

Autosize height

Automatically adjust height to fit the form's content

```
<iframe class="airtable-embed" src="https://airtable.com/embed/shr8GiPh1r172tyc6?backgroundColor=cyan" frameborder="0" onmousewheel="" width="100%" height="533" style="background: transparent; border: 1px solid #ccc;"></iframe>
```

Desktop embed preview

Member Registration

Name

Mobile embed preview

Member Registration

Name

```
ers > yssuen > Pingendo > demo > faq copy.html > html > body > div.py-5.text-center > div.container > div.row
44     <div class="container">
45         <div class="row">
46             <div class="p-5 col-md-7 d-flex flex-column justify-content-center align-items-center">
47                 <h3 class="display-4 mb-3">Heaven and earth</h3>
48                 <p class="mb-4 lead">Seem to dwell in my soul and ab
49             </div>
50             <div class="p-5 col-md-5">
51                 <h3 class="mb-3">Reserve a spot</h3>
52                 <iframe class="airtable-embed" src="https://airtable.com/embed/1...<br/>
53                     frameborder="0" onmousewheel="" width="100%" height="100%">
54             </div>
55         </div>
56     </div>
57 </div>
58 <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js">
59 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js">
60 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js">
61 <pingendo onclick="window.open('https://pingendo.com/','_blank')>
62 </body>
63
64 </html>
```

Form

Name

Company

Location

Email

Made with Pingendo Free 

Registration Form Demo**REGISTRATION**

By registering with us, you'll receive a monthly newsletter update on the latest web technology development.

Member Registration

Name

https://ybsuen.github.io/com5961/assignment12/dataviz_demo/contact.html

wp553b New Toggle Airpress Debugger Howdy, admin

Add New Page

Registration Form

Permalink: http://localhost/wp_553b/registration-form/ [Edit](#)

[Add Media](#) Visual Text [close tags](#)

[b](#) [i](#) [link](#) [b-quote](#) [del](#) [ins](#) [img](#) [ul](#) [ol](#) [li](#) [code](#) [more](#)

```
<iframe class="airtable-embed" src="https://airtable.com/embed/shr8GiPh1r172tyc6?backgroundColor=cyan" frameborder="0" onmousewheel="" width="100%" height="533" style="background: transparent; border: 1px solid #ccc;"></iframe>
```

Word count: 0 Draft saved at 8:14:43 am.

Publish

Save Draft [Preview](#)

Status: Draft [Edit](#)

Visibility: Public [Edit](#)

[Publish immediately](#) [Edit](#)

[Move to Trash](#) [Publish](#)

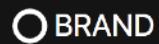
Page Attributes

Parent: (no parent)

Template: Default template

Order: 0

Need help? Use the Help tab above the screen title.



Home Sample Page Special Page Privacy Policy Dashboard My Favorite Posts Registration Form

O my friend

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could impress upon paper all that is living
so full and warm within me, that it might
be the mirror of my soul, as my soul is the
mirror of the infinite.

[Take me there](#)

Making Remote

No-code/Low-

Master the Basics:



Track how many times this page has been viewed.

Member Registration

Name

Location



Members

Activity History

Activity Types



VIEWS

All Members



12 hidden fields

Filter

Group

Sorted by 2 fields

Color



Share view



Find a view



All Members



Grouped by Orbit Level

Grouped by Company

...

Use a suggested view ⚡

Grouped by "Location"

"Location" Kanban

Create a view

Grid

Form

Calendar

Gallery

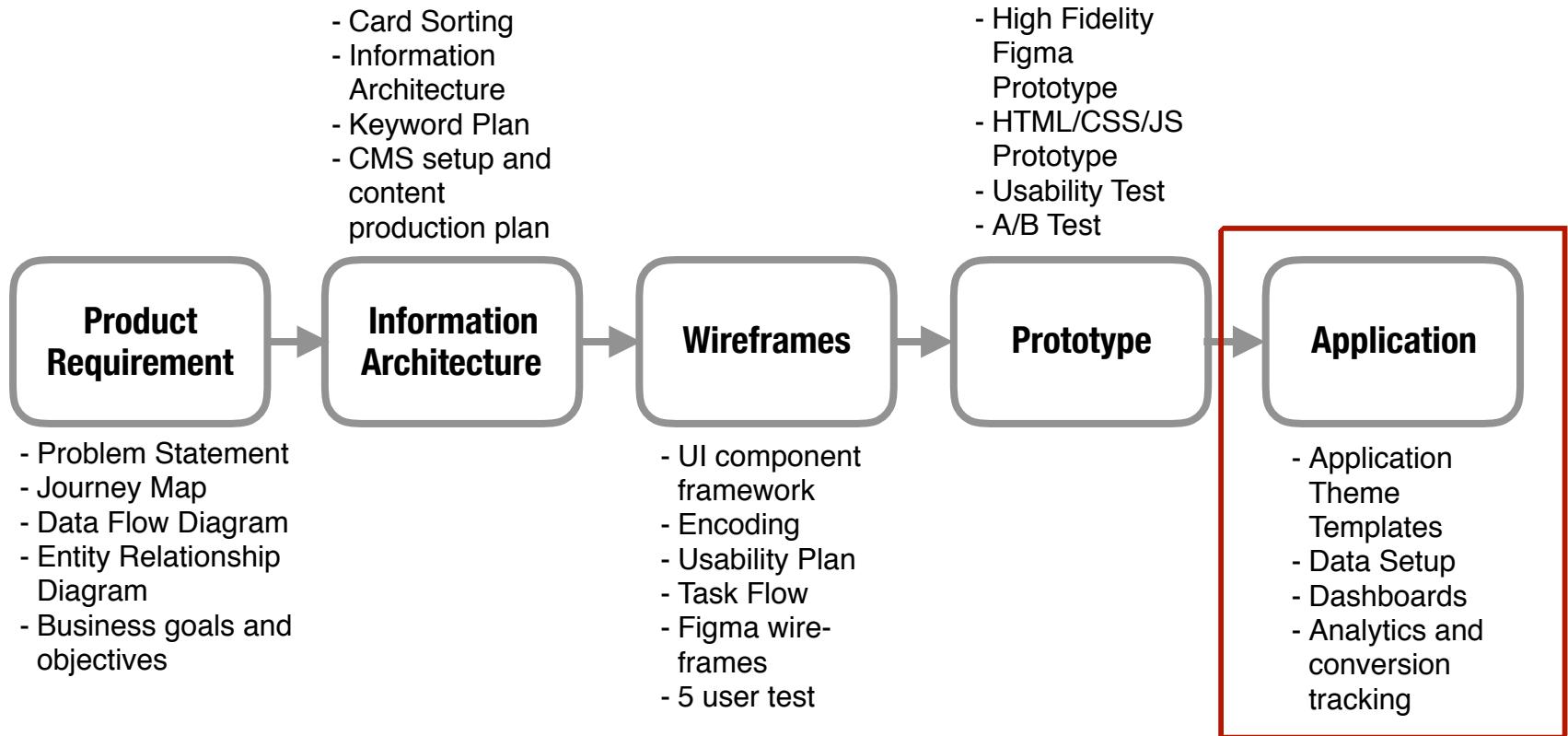
Kanban

	A Name	Company	Location	Member Notes	Email
39	Yonas Boston	tackShare	San Francisco		
40	Ben Schumacher	rickstack	San Francisco		
41	Ricky Manchester	rickstack	San Francisco		
42	Christian Glover	earin	New Delhi		
43	Dylan Cornish	ogozoom	New York		
44	Julian Butler	electrics	London		
45	Bernadette Kerr	electrics	London		
46	Lisa Marshall	exiqvolax	London		
47	Carl Clarkson	otware	Tokyo		
48	Alison Sharp	tatholdings	Tokyo		
49	Gabrielle Gray	athunicon	Tokyo		
50	Joe Martin	umace	London		
51	Bernard Suen		Hong Kong	Excited to become a new ...	bernard@cuhk.edu.hk

51 records

Compare with how many has been submitted.





Advanced Demonstration Using WordPress

- [Sample Page](#)
- [Special Page](#)
- [Favorite Posts](#)
- [Dashboard](#)

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Members

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**Demo1 One****About****Posts****Comments**



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Showing all 3 results

Default sorting



Introduction to HTML/CSS/JS

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Add to cart

Store: ABC Store



Introduction to ParseHub

\$500.00 \$400.00

Add to cart

Store: ABC Store



Open Refine for Beginners

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Add to cart

Store: XYZ Store



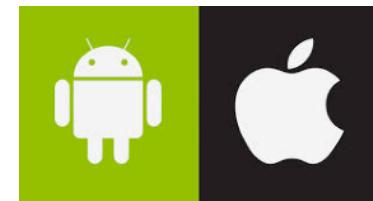
Native Mobile Application Development Tools

Native Mobile App Development

Android Studio



Swift/Xcode



Android Studio



Swift/Xcode

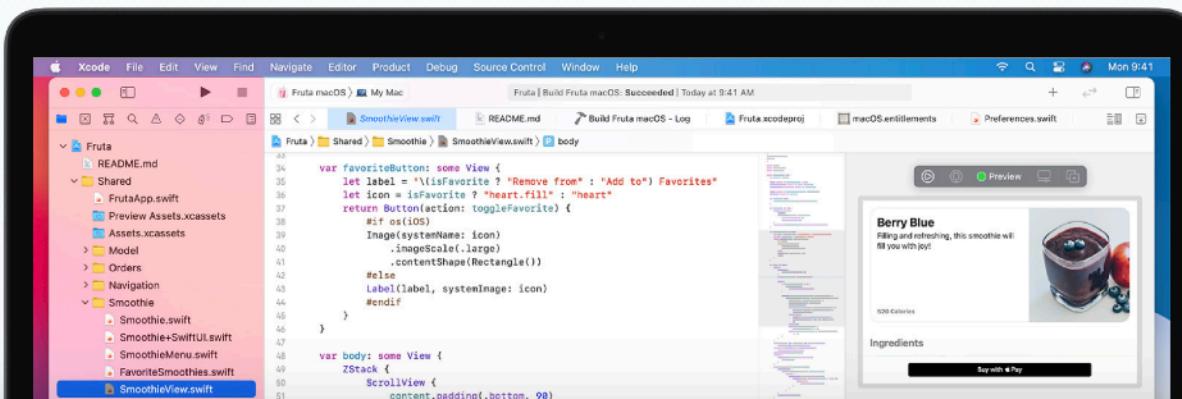


Xcode

Overview Features What's New Resources

Introducing Xcode 12

With an all-new design that looks great on macOS Big Sur, Xcode 12 has customizable font sizes for the navigator, streamlined code completion, and new document tabs. Xcode 12 builds Universal apps by default to support Mac with Apple Silicon, often without changing a single line of code.



<https://developer.apple.com/xcode/>

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LANGUAGE ▾



Android Studio

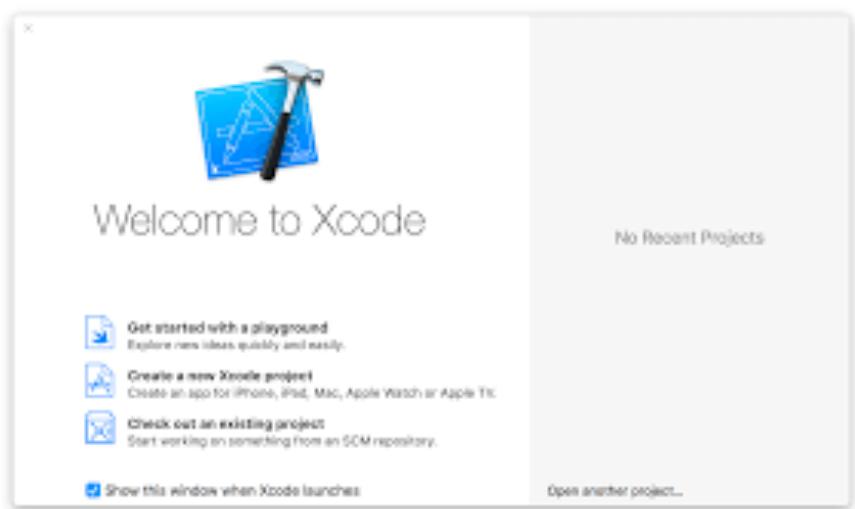
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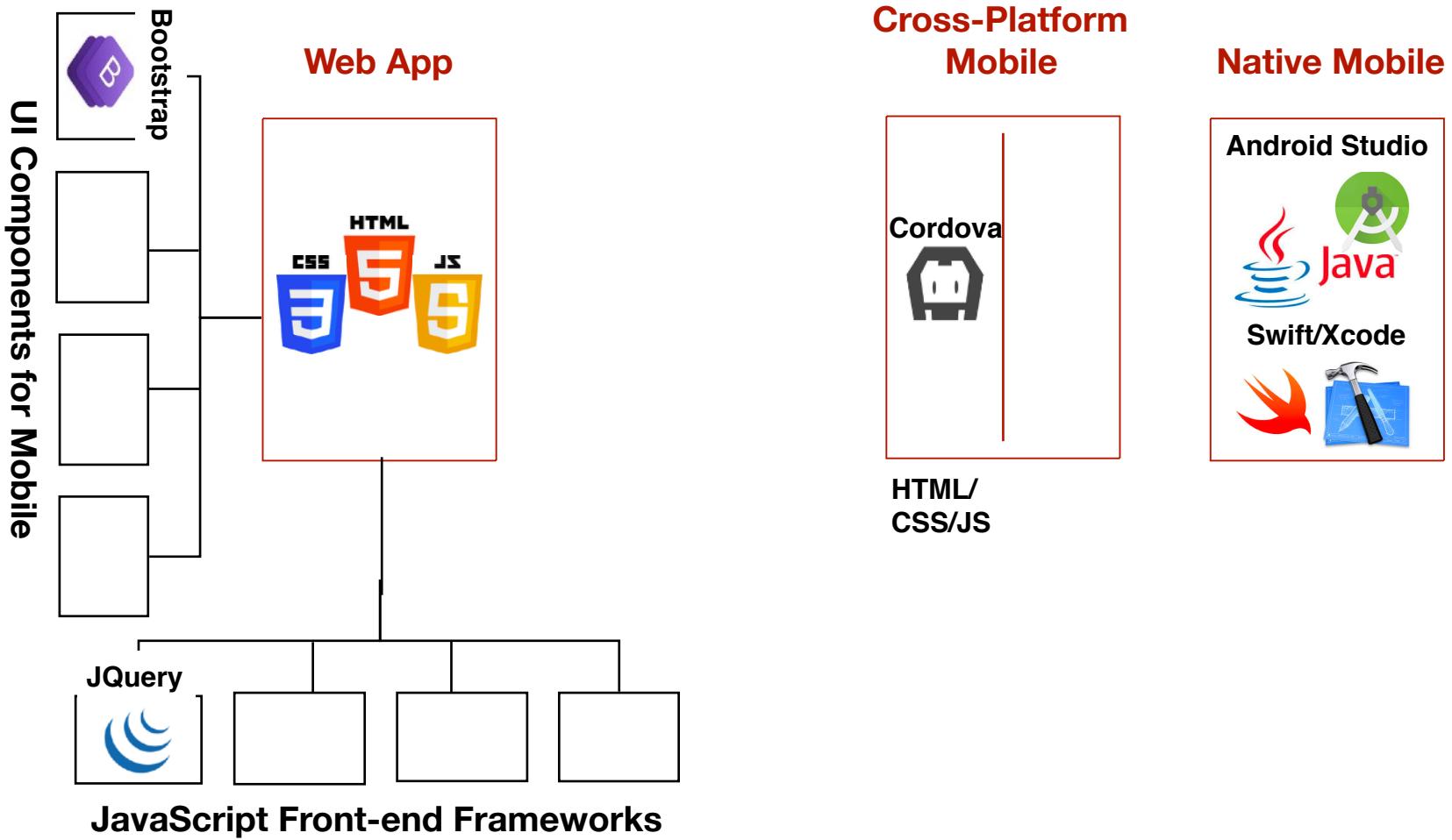
Evolution of mobile app development.

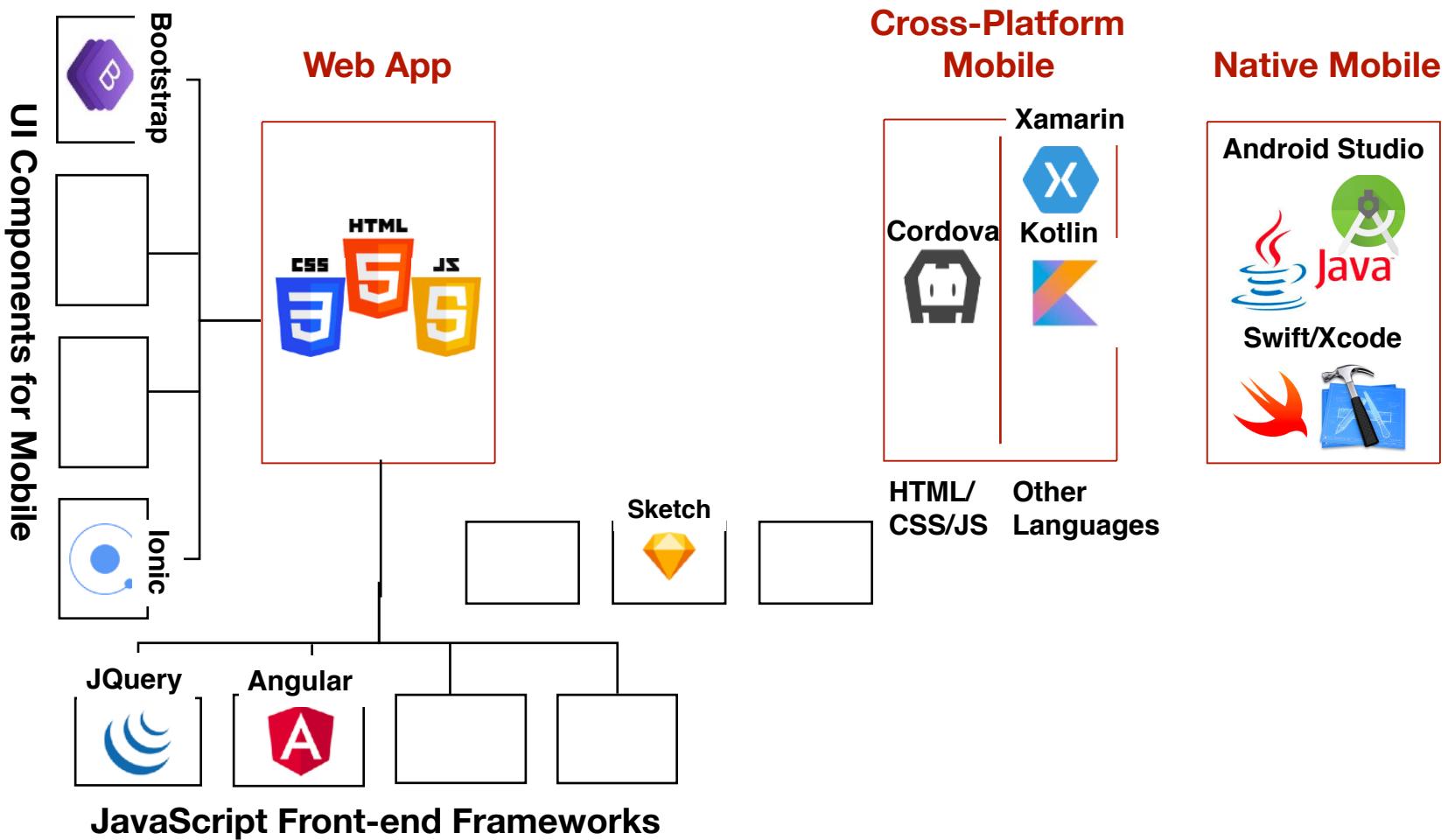
Web App

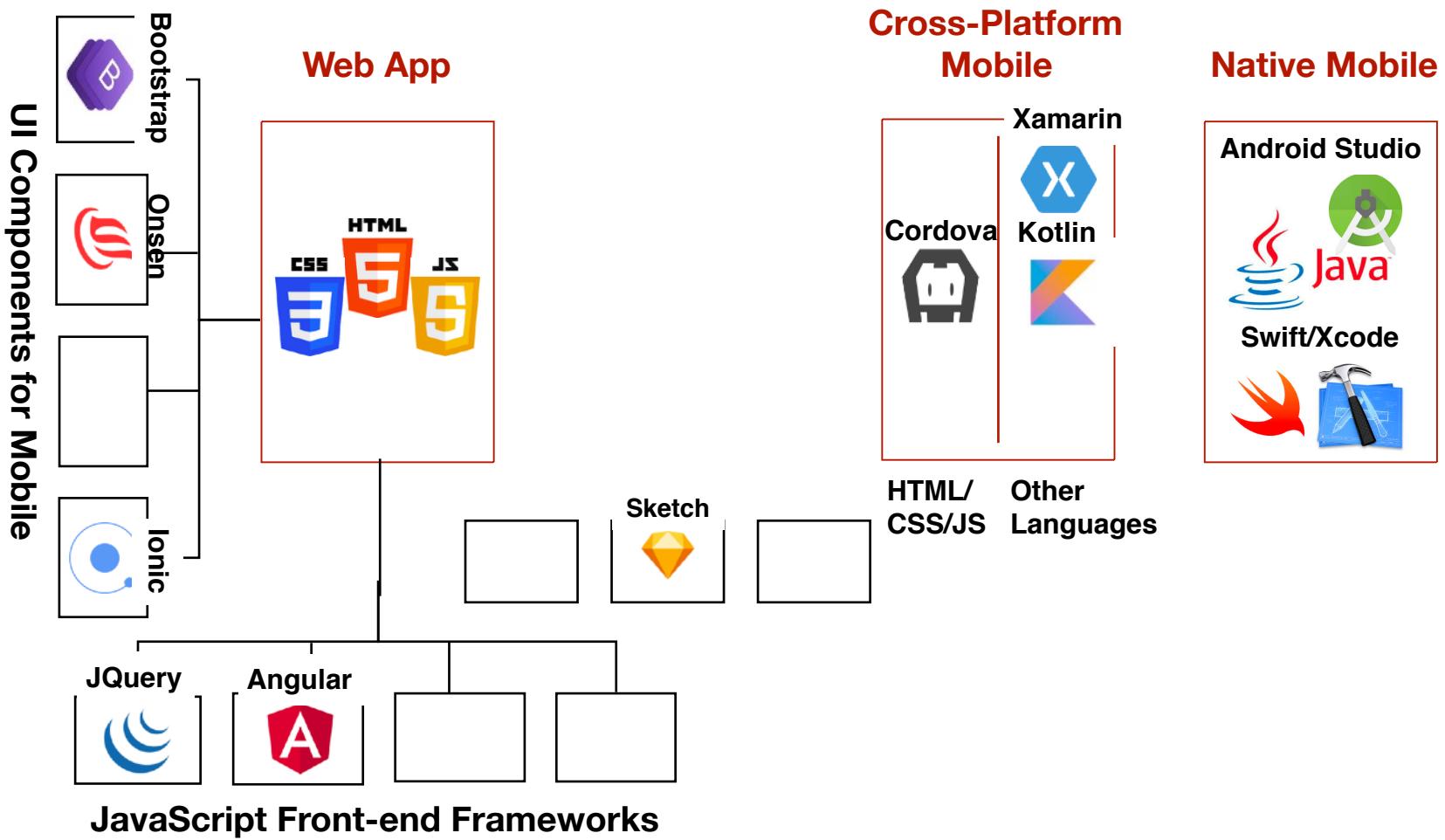


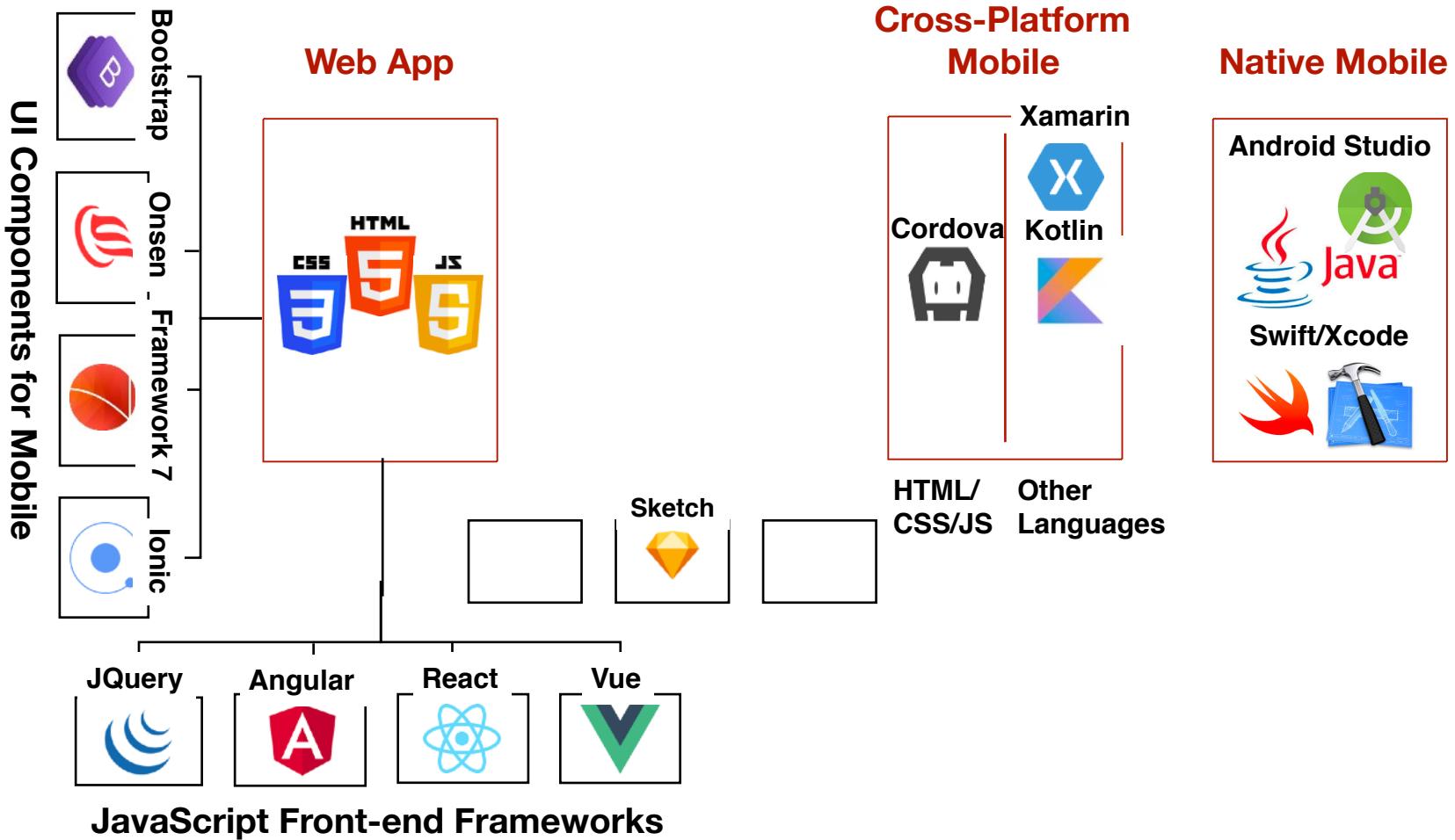
Native Mobile

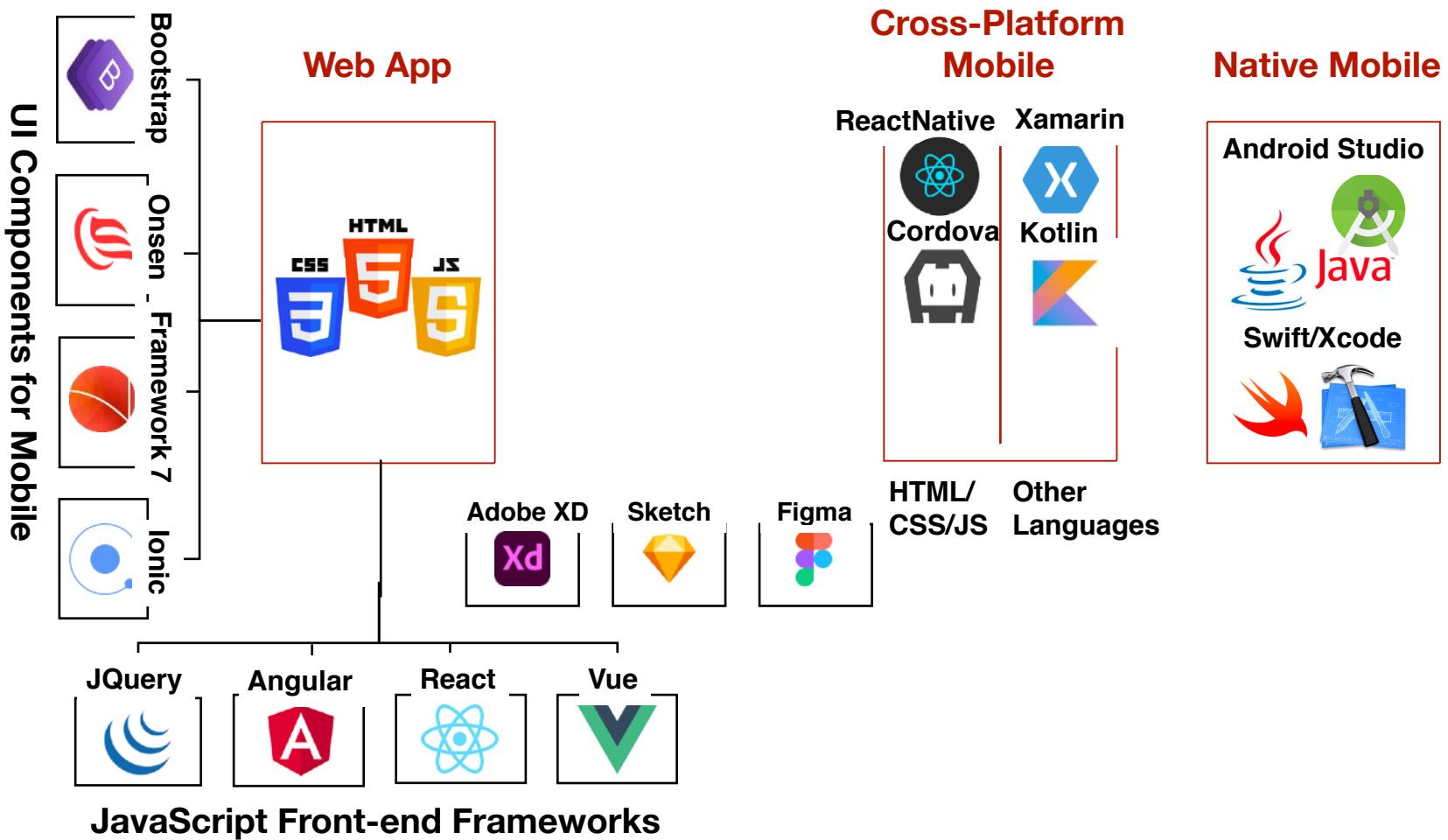


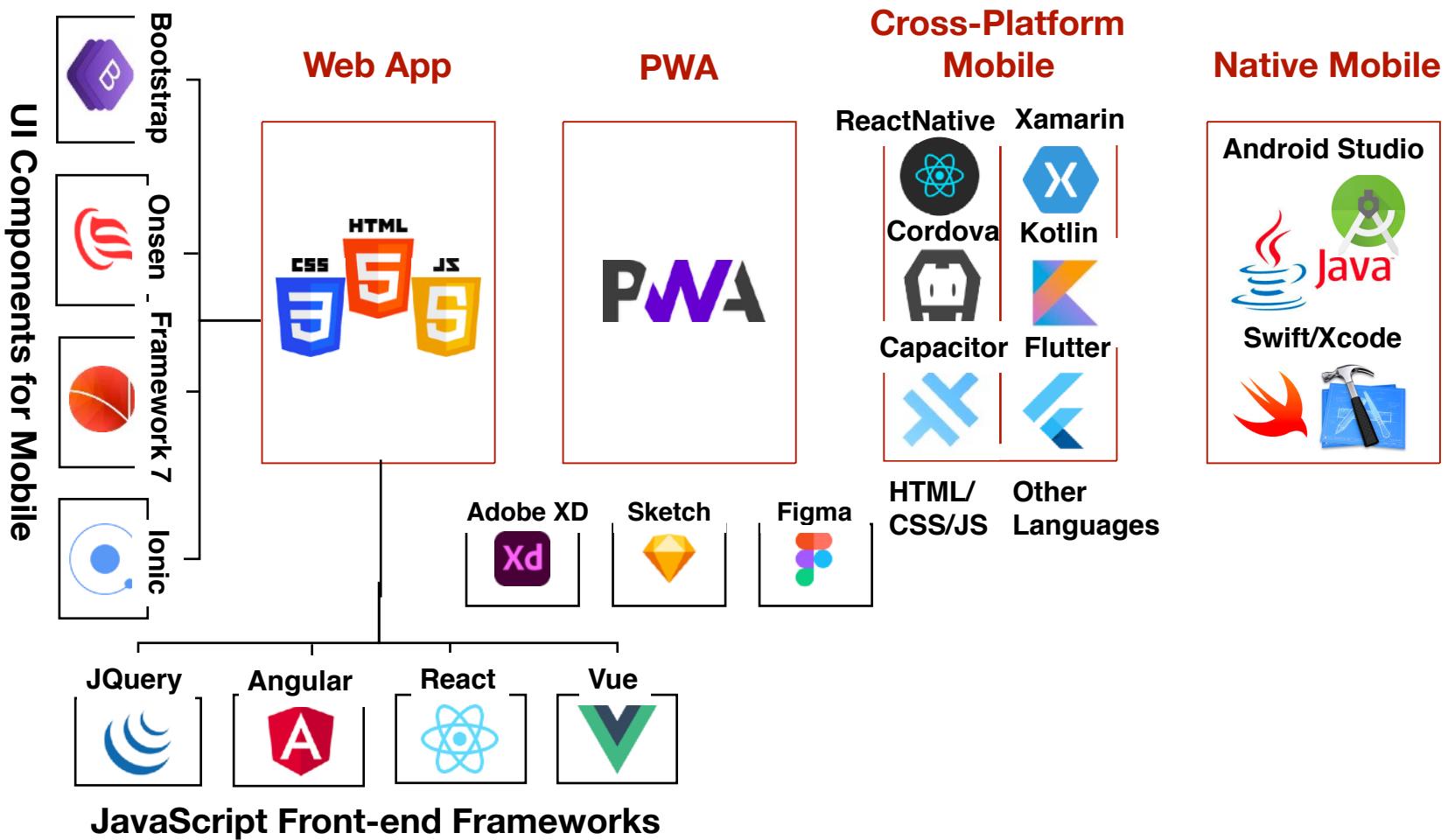


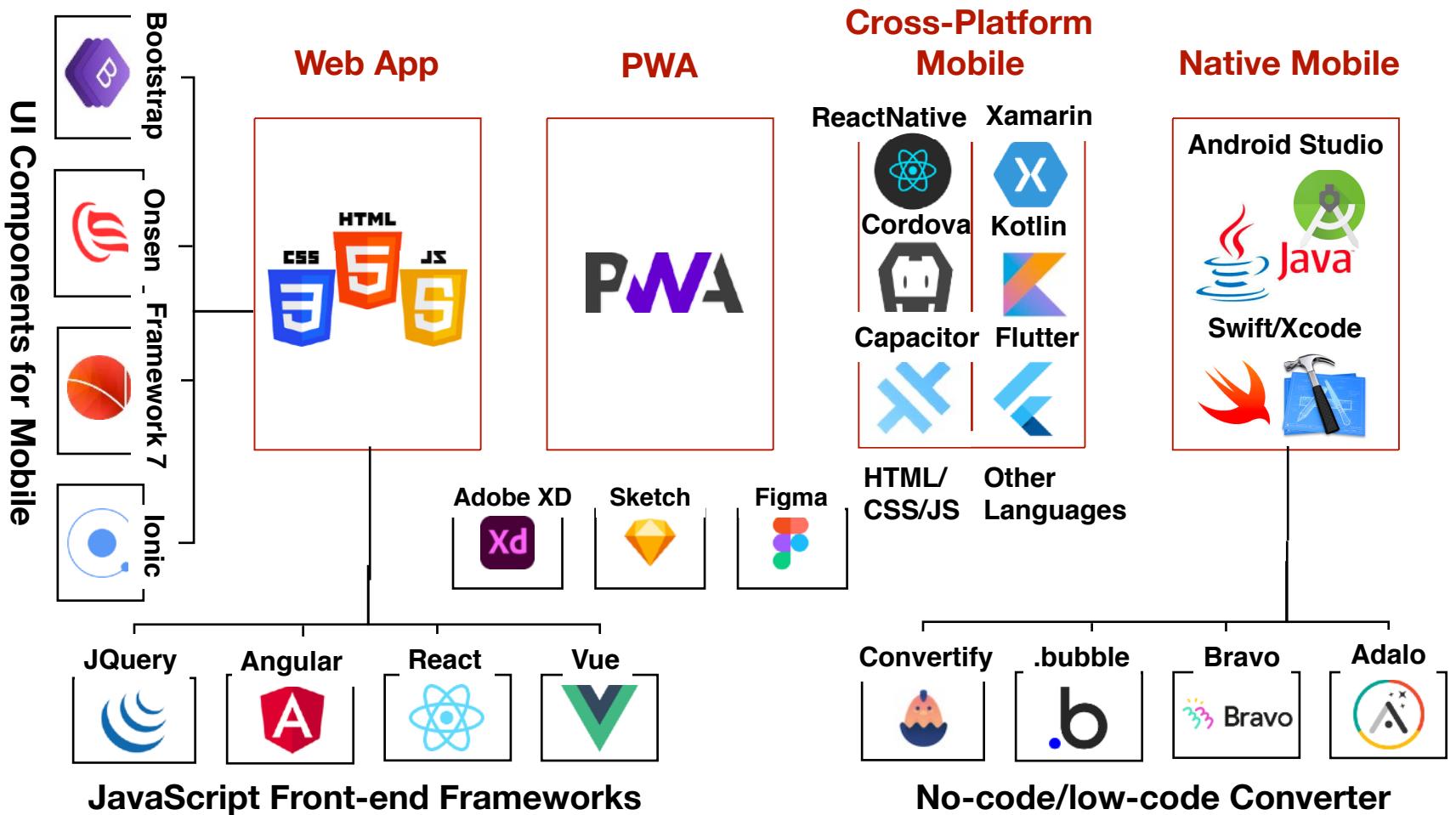








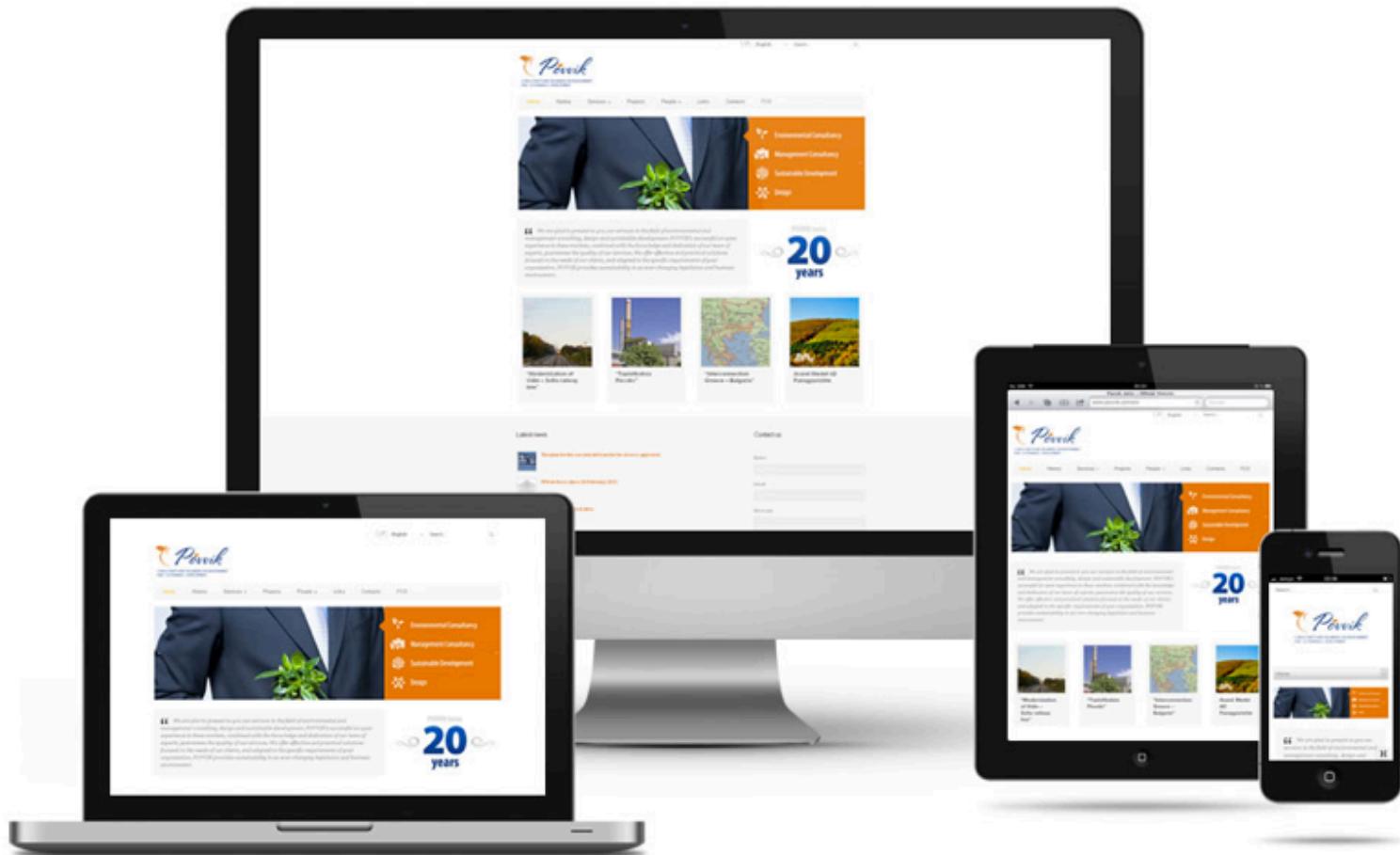




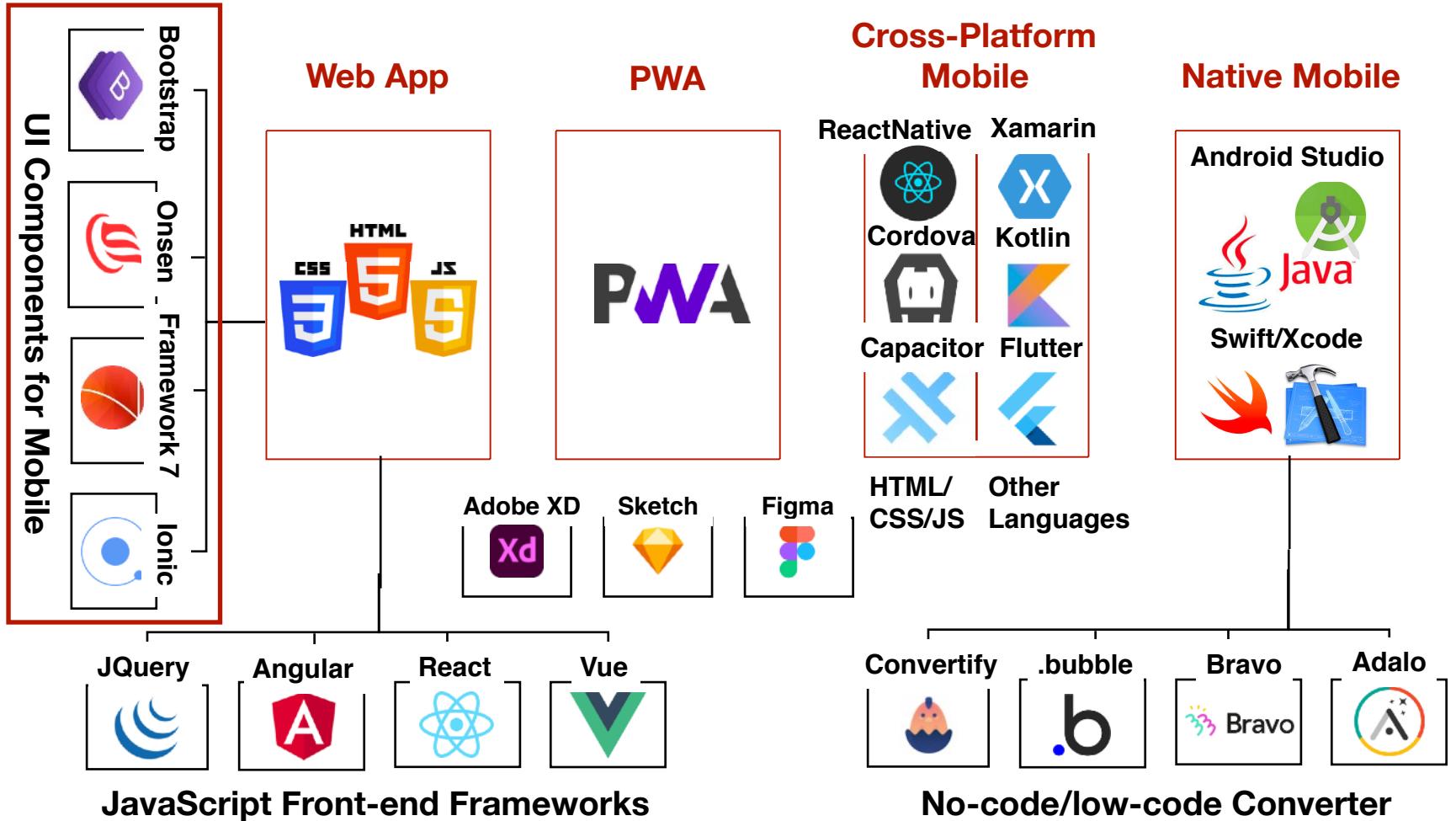
Why Cross-Platform Development?

1. **Budget limitation** in testing out new products.
2. Cannot afford to have both **Android** and **IOS** developers onboard.
3. Under extreme **time pressure** to test out the market or launch the product.
4. Leverage **HTML/CSS/JS** expertise.
5. Going through **rapid product iteration** with constant changes and challenges in maintaining **two code bases**, IOS and Android.
6. Cross-platform development as a **Minimum Viable Product (MVP)** strategy.

From Responsive Web App to Mobile App UI Components



Front-end mobile UI Components



Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

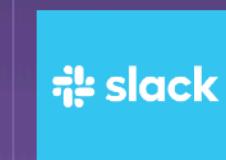
Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.



<https://getbootstrap.com/>

Components

Over a dozen reusable components built to provide iconography, dropdowns, input groups, navigation, alerts, and much more.



Bring your team together with Slack, the collaboration hub for work.
ads via Carbon

Glyphicon

Available glyphs

Includes over 250 glyphs in font format from the Glyphicon Halflings set. [Glyphicons](#) Halflings are normally not available for free, but their creator has made them available for Bootstrap free of cost. As a thank you, we only ask that you include a link back to [Glyphicons](#) whenever possible.

glyphicon glyphicon-asterisk	glyphicon glyphicon-plus	glyphicon glyphicon-euro	glyphicon glyphicon-eur	glyphicon glyphicon-minus	glyphicon glyphicon-cloud	glyphicon glyphicon-envelope	glyphicon glyphicon-pencil

glyphicon glyphicon-list	glyphicon glyphicon-music	glyphicon glyphicon-search	glyphicon glyphicon-heart	glyphicon glyphicon-star	glyphicon glyphicon-star-empty	glyphicon glyphicon-user	glyphicon glyphicon-film

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Pagination
Labels
Badges
Jumbotron

<https://getbootstrap.com/docs/3.4/components/>

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Material Design for Bootstrap 4

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Bootstrap Components

A visual guide to components for the latest Bootstrap 4 and Material Design

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Buttons

Basic buttons

PRIMARY

DEFAULT

SECONDARY

SUCCESS

INFO

WARNING

DANGER

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- Blog components
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- Forms
- Progress bars
- Tabs and pills
- Miscellaneous
- More content



<https://mdbootstrap.com/docs/jquery/components/demo/>



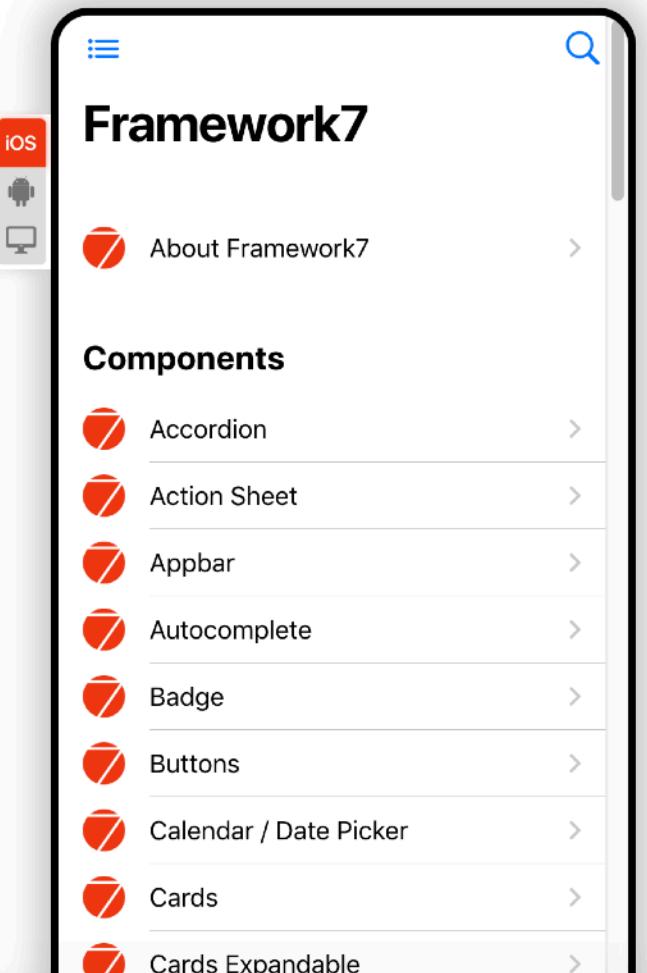
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<https://framework7.io/>

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The screenshot shows a mobile application interface for Framework7. At the top left is a navigation menu icon (three horizontal lines) and at the top right is a search icon (magnifying glass). Below the header, there's a toolbar with icons for iOS, Android, and Desktop. The main content area has a title "Framework7" and a subtitle "Components". A list of components is displayed, each with a red circular icon containing a diagonal slash:

- About Framework7
- Accordion
- Action Sheet
- Appbar
- Autocomplete
- Badge
- Buttons
- Calendar / Date Picker
- Cards
- Cards Expandable

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Kitchen Sink

[Source Code](#)[Running Locally](#)

Framework7 Kitchen Sink is a great place to get started, it has a lot of examples for all Framework7 components and covers most of aspects.

It is recommended to use Kitchen Sink as a reference during development.

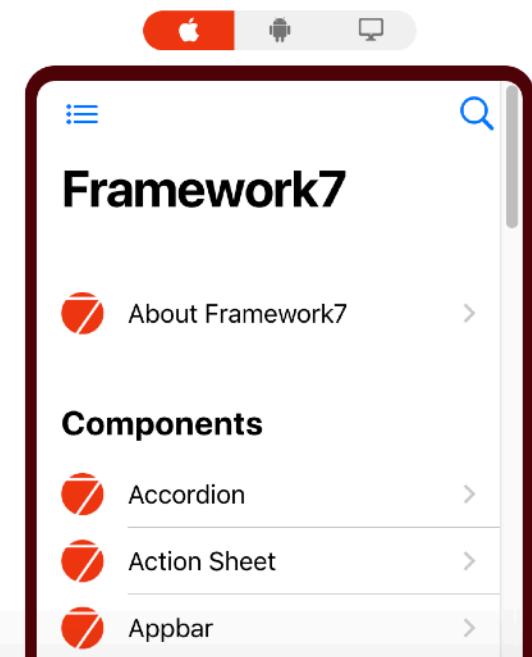
Source Code

Core Kitchen Sink source code is located at [GitHub repository](#)

Running Locally

To run Core Kitchen Sink locally we need:

1. Download and unzip [Framework7 GitHub repository](#) to a local folder
2. Install [Node.js](#) (if not installed)



<https://framework7.io/docs/kitchen-sink.html>

The most beautiful and efficient way to develop HTML5 hybrid and mobile web apps.



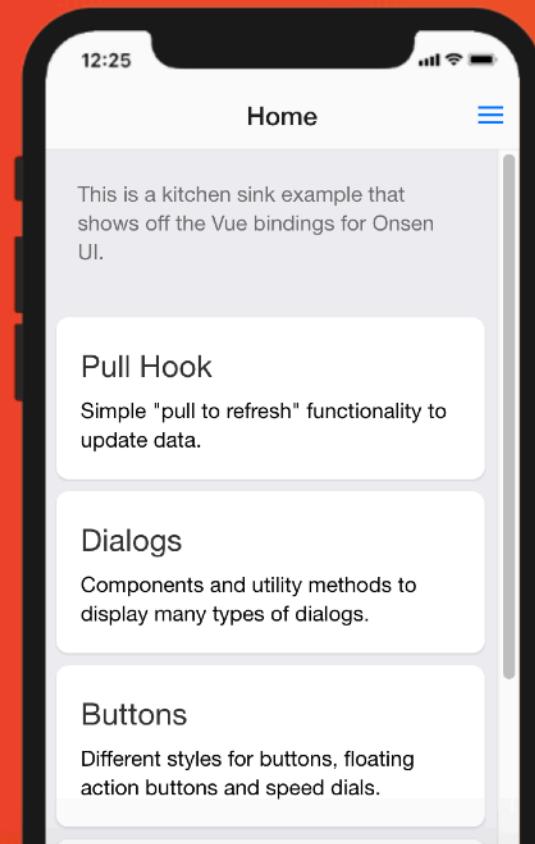
Change View

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Libraries for framework users

<https://onsen.io/>

Carousel

carousel

Tutorial

See Also

Attributes

Properties

Methods

Events

Conditional

if

Control

pull-hook

segment

opened dialog items

111

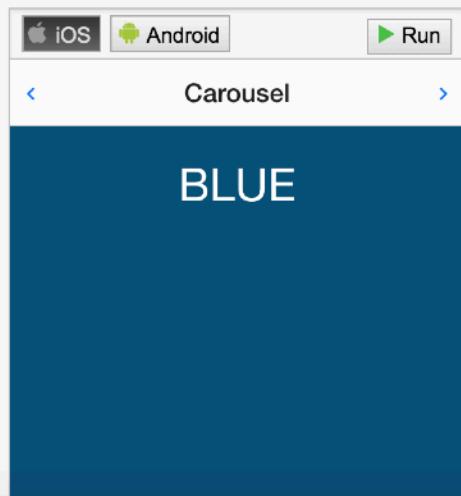
Dialog

ons-carousel

js JavaScript Core

Carousel component. A carousel can be used to display several items in the same space. The component supports displaying content both horizontally and vertically. The user can scroll through the items by dragging and it can also be controlled programmatically.

Tutorial



```
1 <kons-page>
2   <kons-toolbar>
3     <div class="left">
4       <ons-toolbar-button onclick="prev()">
5         <ons-icon icon="md-chevron-left"></ons-icon>
6       </ons-toolbar-button>
7     </div>
8     <div class="center">Carousel</div>
9     <div class="right">
10      <ons-toolbar-button onclick="next()">
11        <ons-icon icon="md-chevron-right"></ons-icon>
12      </ons-toolbar-button>
13    </div>
14  </kons-toolbar>
```

HTML

```
1 var prev = Function() {  
2     var carousel = document.getElementById('carousel');  
3     carousel.prev();
```

<https://onsen.io/v2/api/js/ons-carousel.html>

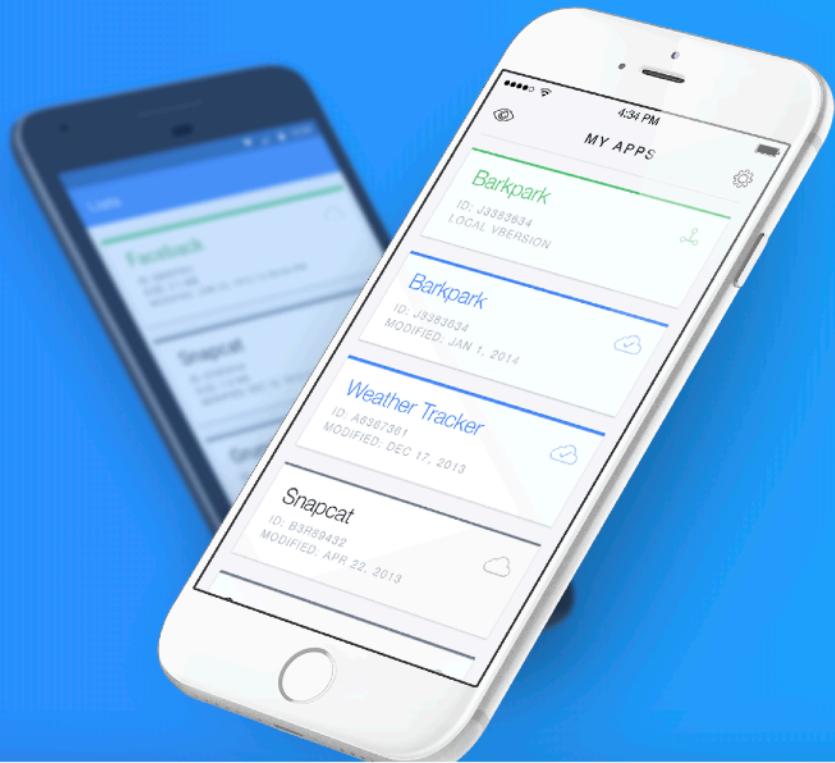
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v4.10.0 / 2019-09-27 / MIT Licensed / [Release Notes](#)



<https://ionicframework.com/framework>

JS JavaScript

ACTION SHEET

ion-action-sheet

ion-action-sheet-controller

ALERT

ion-alert

ion-alert-controller

BADGE

ion-badge

BUTTON

ion-button

ion-ripple-effect

CARD

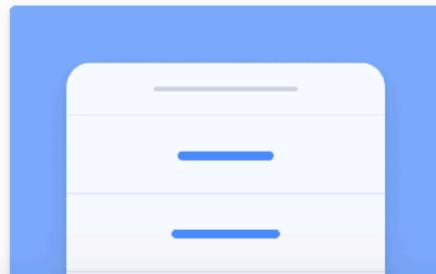
ion-card

ion-card-content

ion-card-header

UI Components

Ionic apps are made of high-level building blocks called Components, which allow you to quickly construct the UI for your app. Ionic comes stock with a number of components, including cards, lists, and tabs. Once you're familiar with the basics, refer to the [API Index](#) for a complete list of each component and sub-component.



Alert

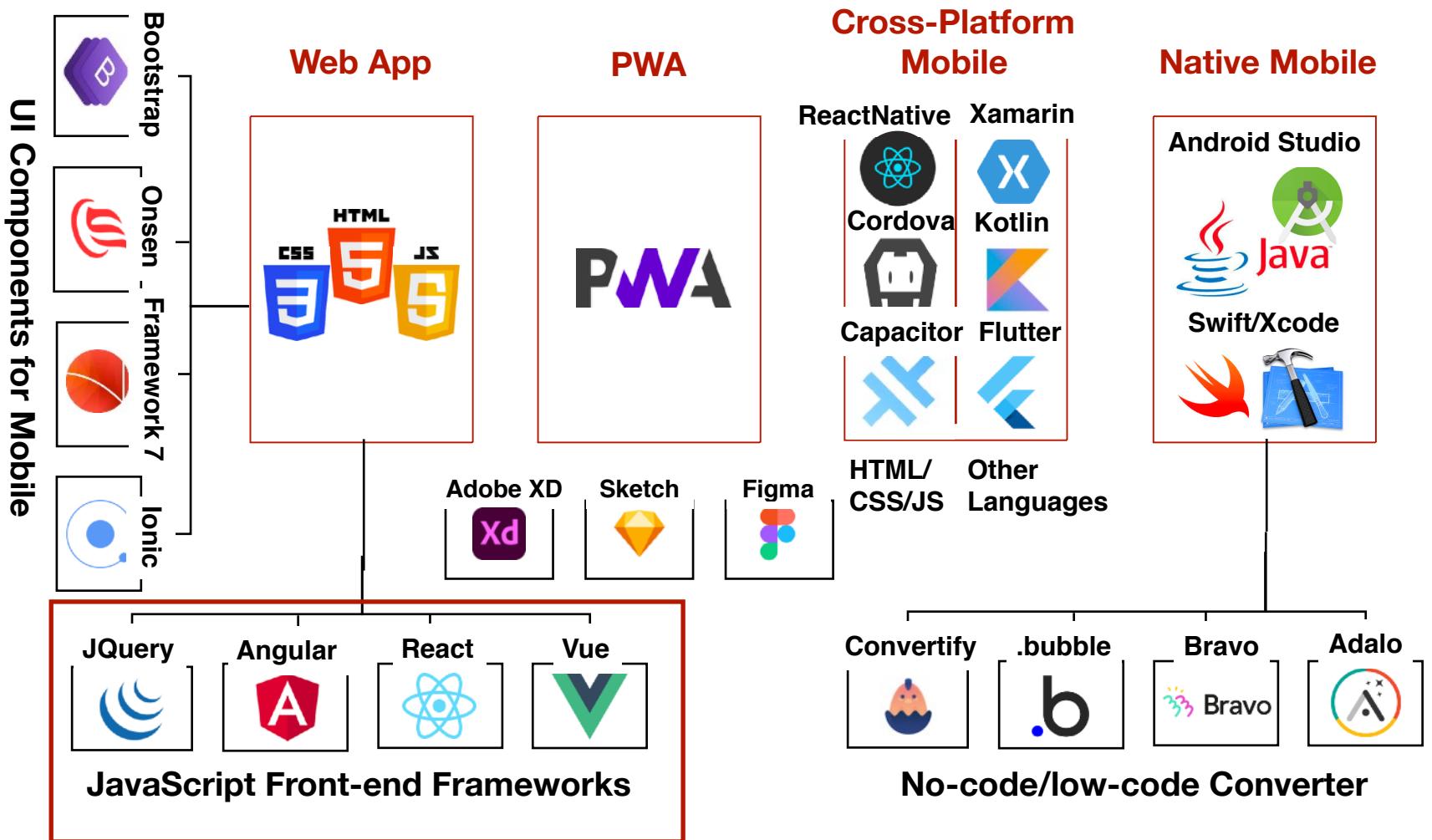
Alerts are a great way to offer the user the ability to choose a specific action or list of actions.

Badge

Badges are a small component that typically communicate a numerical value to the user.

<https://framework7.io/docs/kitchen-sink.html>

JavaScript Frameworks





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<https://jquery.com/>

React

A JavaScript library for building user interfaces

[Get Started](#)[Take the Tutorial >](#)

Declarative

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Component-Based

Build encapsulated components that manage their own state, then compose them to make complex UIs.

Since component logic is written in

Learn Once, Write Anywhere

We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

<https://reactjs.org/>

This site and all of its contents are referring to AngularJS (version 1.x), if you are looking for the latest Angular, please visit angular.io.



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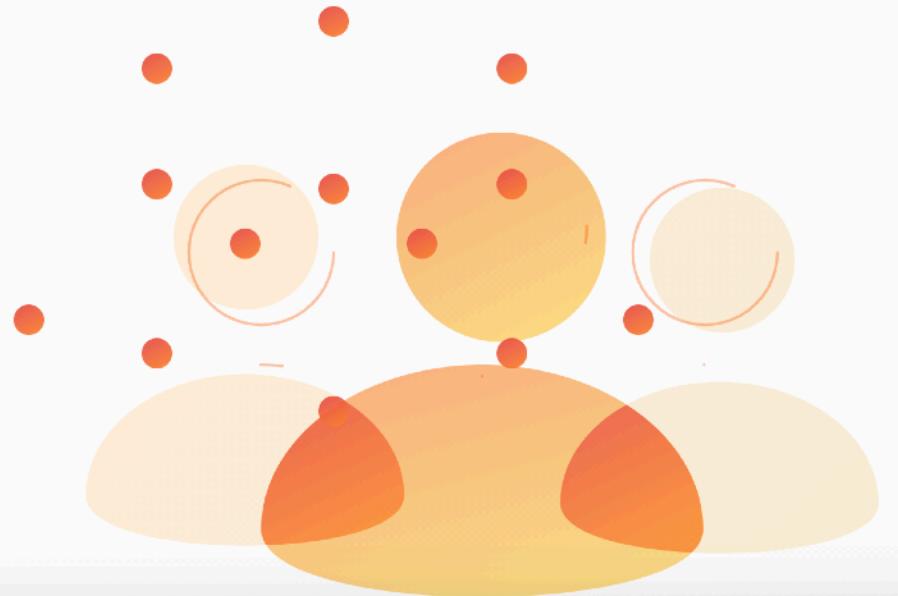
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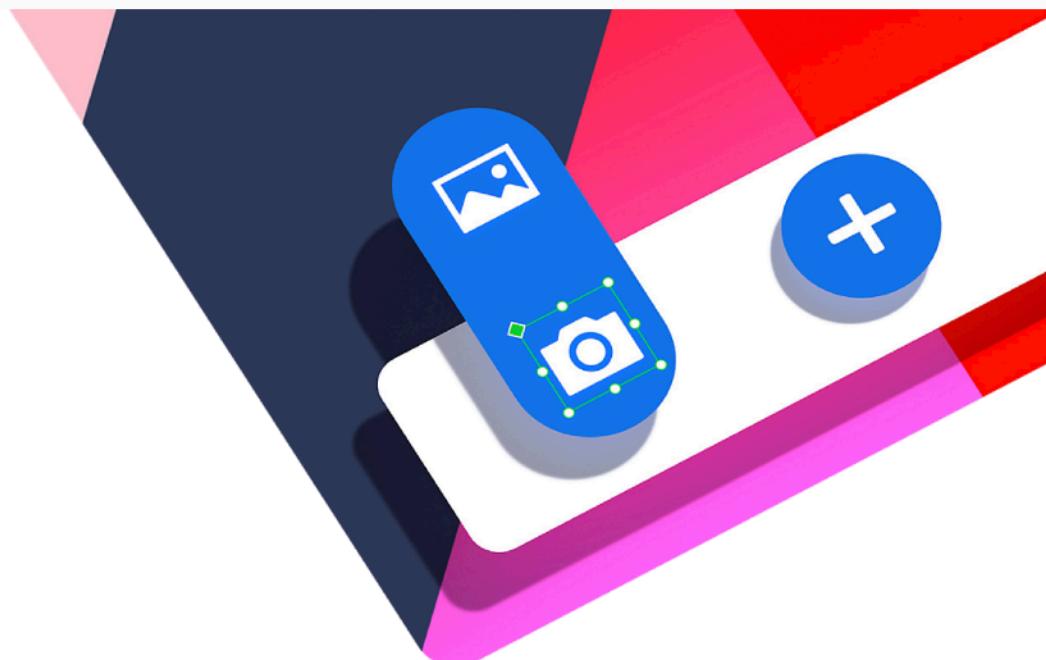
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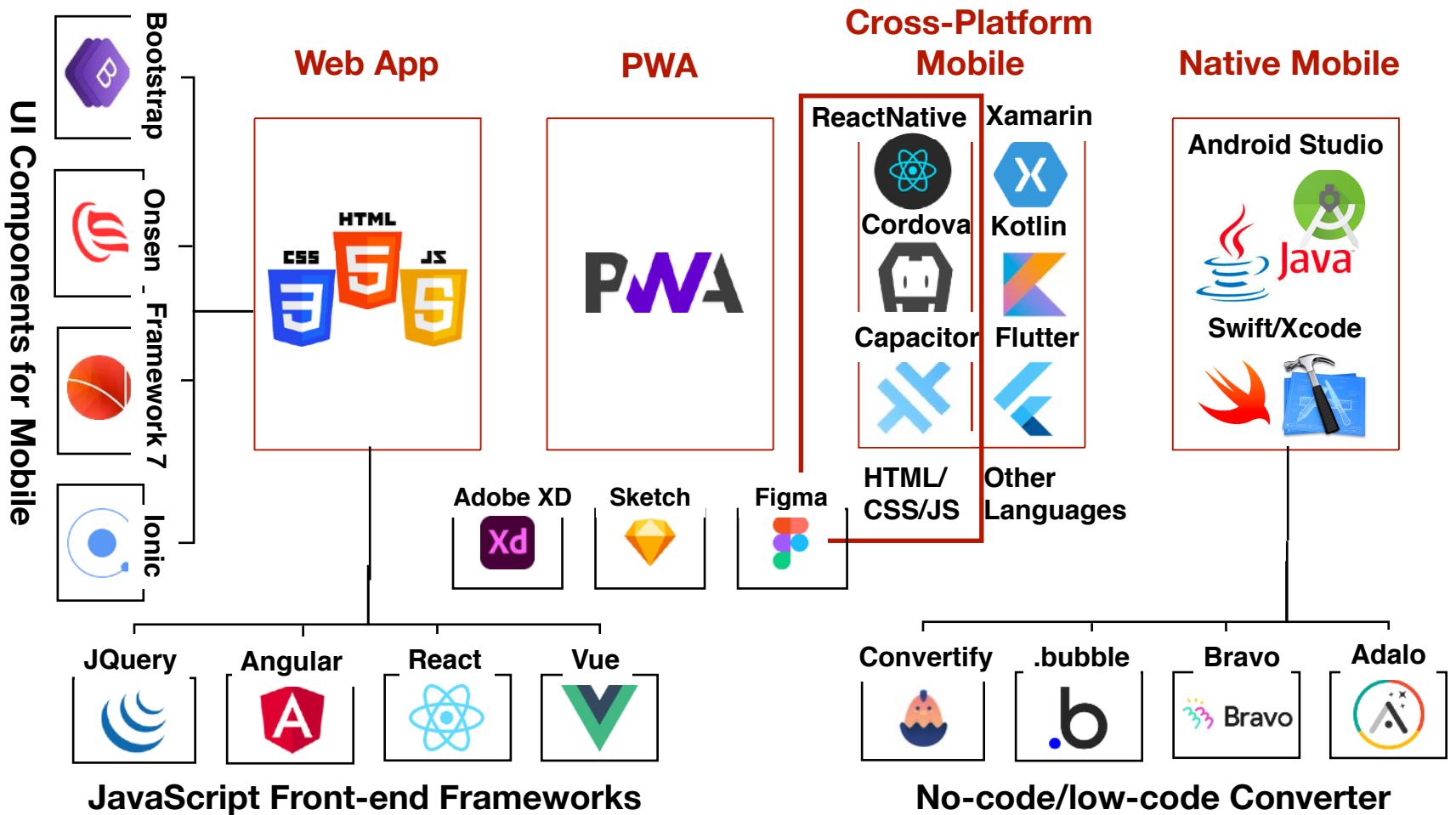
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across

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Support for
offline scenarios



Access native
device APIs

<https://cordova.apache.org/>

Native App Bridge

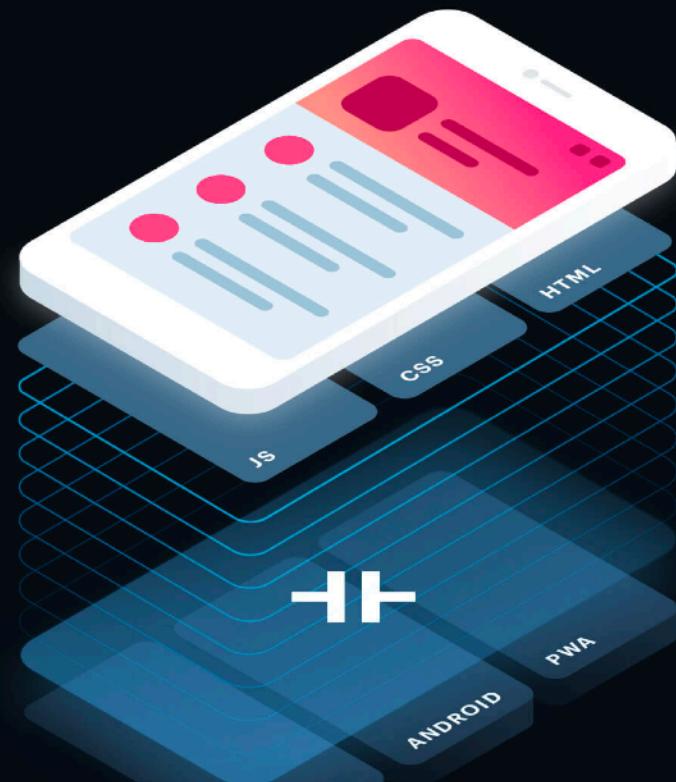


The Native Bridge for Cross-Platform Web Apps

Invoke Native SDKs on iOS, Android, Electron, and the Web with one code base. Optimized for Ionic Framework apps, or use with any web app framework.

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Native App Bridge



 capacitor





0.61

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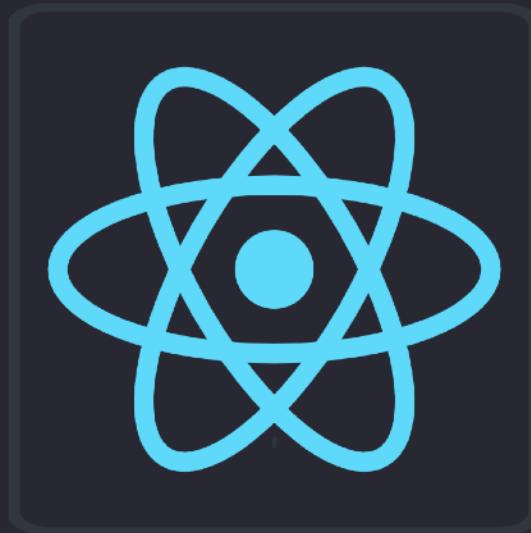
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GitHub

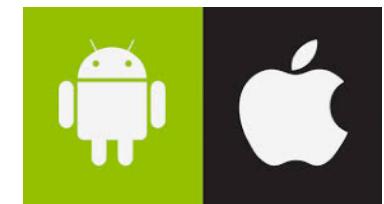
React Native

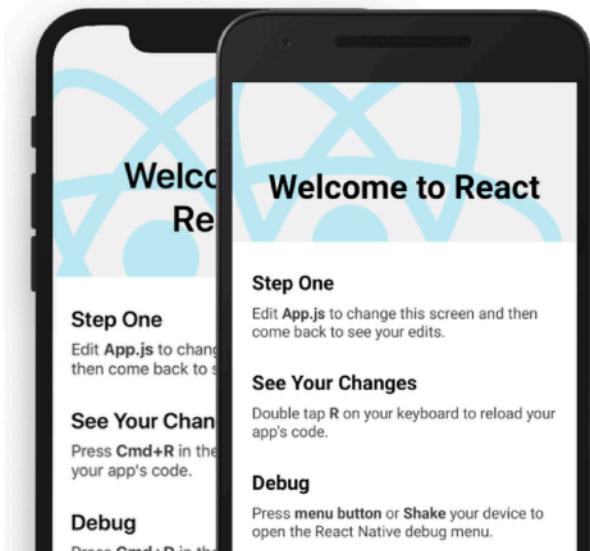
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<https://facebook.github.io/react-native/>

Native App Bridge





Written in JavaScript—rendered with native code

React primitives render to native platform UI, meaning your app uses the same native platform

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Create native apps for Android and iOS using React

React Native combines the best parts of native development with React, a best-in-class JavaScript library for building user interfaces.

Use a little—or a lot. You can use React Native today in your existing Android and iOS projects or you can create a whole new app from scratch.

```
import React from 'react';
import {Text, View} from 'react-native';
import {Header} from './Header';

const WelcomeScreen = () =>
  <View>
    <Header title="Welcome to React Native"/>
    ...
  </View>
```

Facebook Supported, Community Driven



Facebook released React Native in 2015 and has been maintaining it ever since.

In 2018, React Native had the [2nd highest number](#) of contributors for any repository in GitHub. Today, React Native is supported by contributions from individuals and companies around the world including [Callstack](#), [Expo](#), [Infinite Red](#), [Microsoft](#), and [Software Mansion](#).

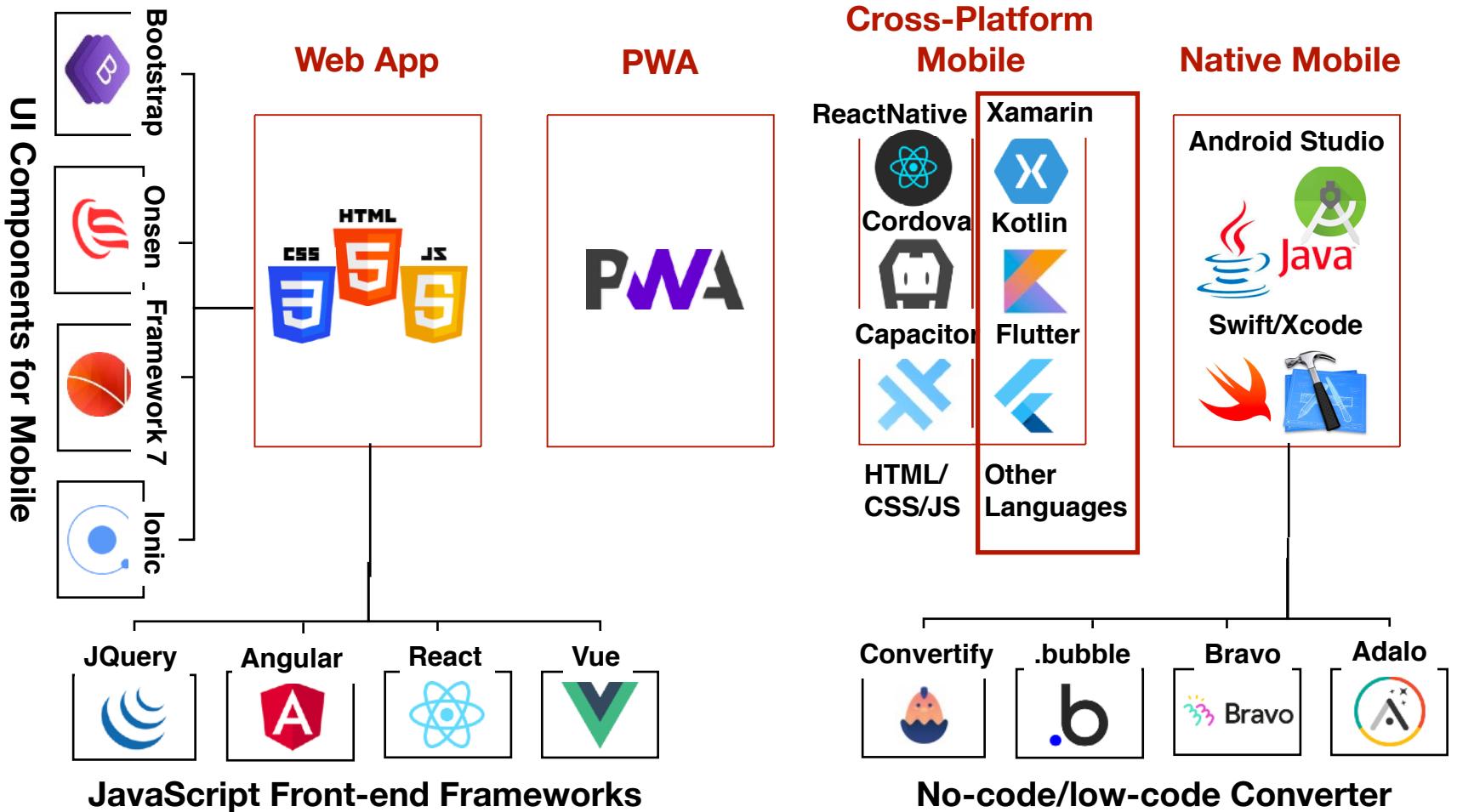
Our community is always shipping exciting new projects and exploring platforms beyond Android and iOS with repos like [React Native Windows](#) and [React Native Web](#).

React Native is being used in thousands of apps, but it's likely you've already used it in one of these apps:



and [many more](#).

Non-HTML/CSS/JS Cross-Platform Native App Development Tools





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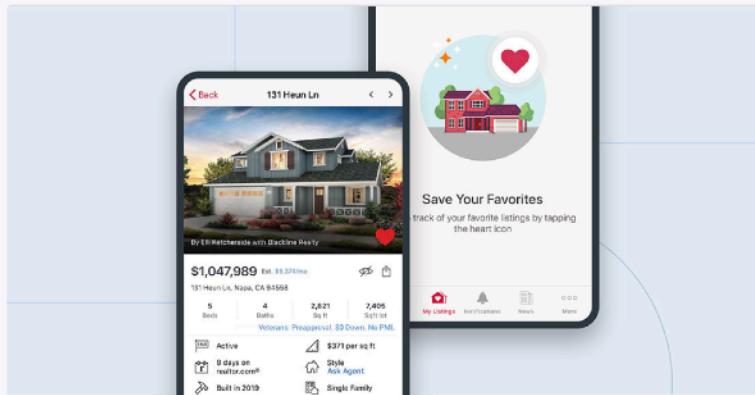
Flutter is Google's UI toolkit for building beautiful, natively compiled applications for [mobile](#), [web](#), and [desktop](#) from a single codebase.

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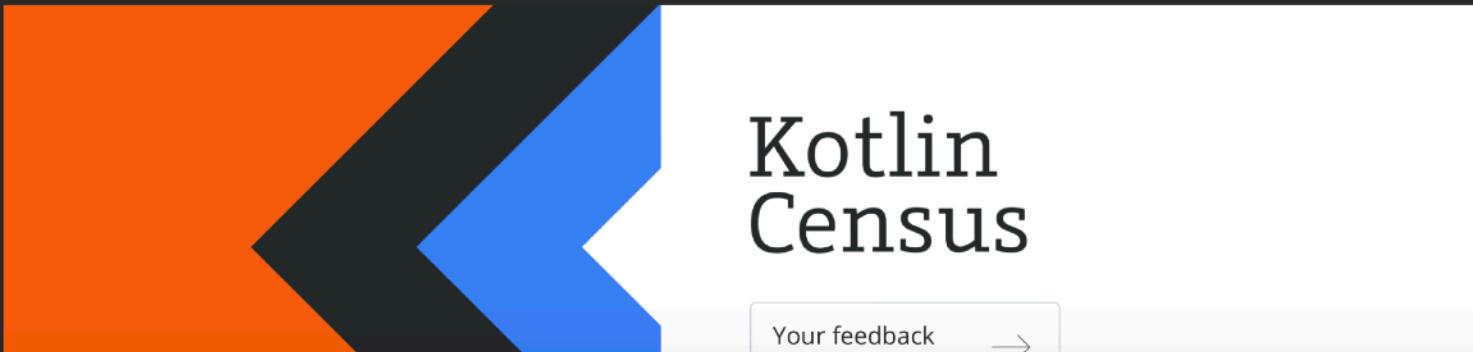
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Tencent uses Flutter throughout the company for several apps including AITeacher, Now Live, K12, Mr. Translator, QiDian, and

Programming language for mobile cross-platform and web development, server-side, native and data science. Open source forever ⓘ

[Getting started](#)[Try in the IDE](#)[Latest from Kotlin](#)

On 7 May 2019, Google announced that the Kotlin programming language is now its preferred language for Android app developers.^[5] Since the release of Android Studio 3.0 in October 2017, Kotlin has been included as an alternative to the standard Java compiler. The Android Kotlin compiler lets the user choose between targeting Java 6 or Java 8 compatible bytecode.



<https://kotlinlang.org/>

[Hide contents](#)

iOS App with Kotlin/Native: Getting Started

- Getting Started
- Using Kotlin/Native
- Build Phase Script
- Gradle Build Script
- Necessary iOS Classes
- Adding a MKMapView to the Storyboard
- Creating the ViewController
- Using AppCode for Kotlin/Native

Android & Kotlin Tutorials



iOS App with Kotlin/Native: Getting Started



In this tutorial, you'll build an iOS app using Kotlin/Native. You'll also take a look at the AppCode IDE from

Applications Developed in Kotlin

1. Pinterest

The popular photo-sharing app, Pinterest is one of the biggest names that have used Kotlin for Android App Development. The brand officially moved from Java to Kotlin and showcased the benefits of the move at Droidcon NYC 2016.



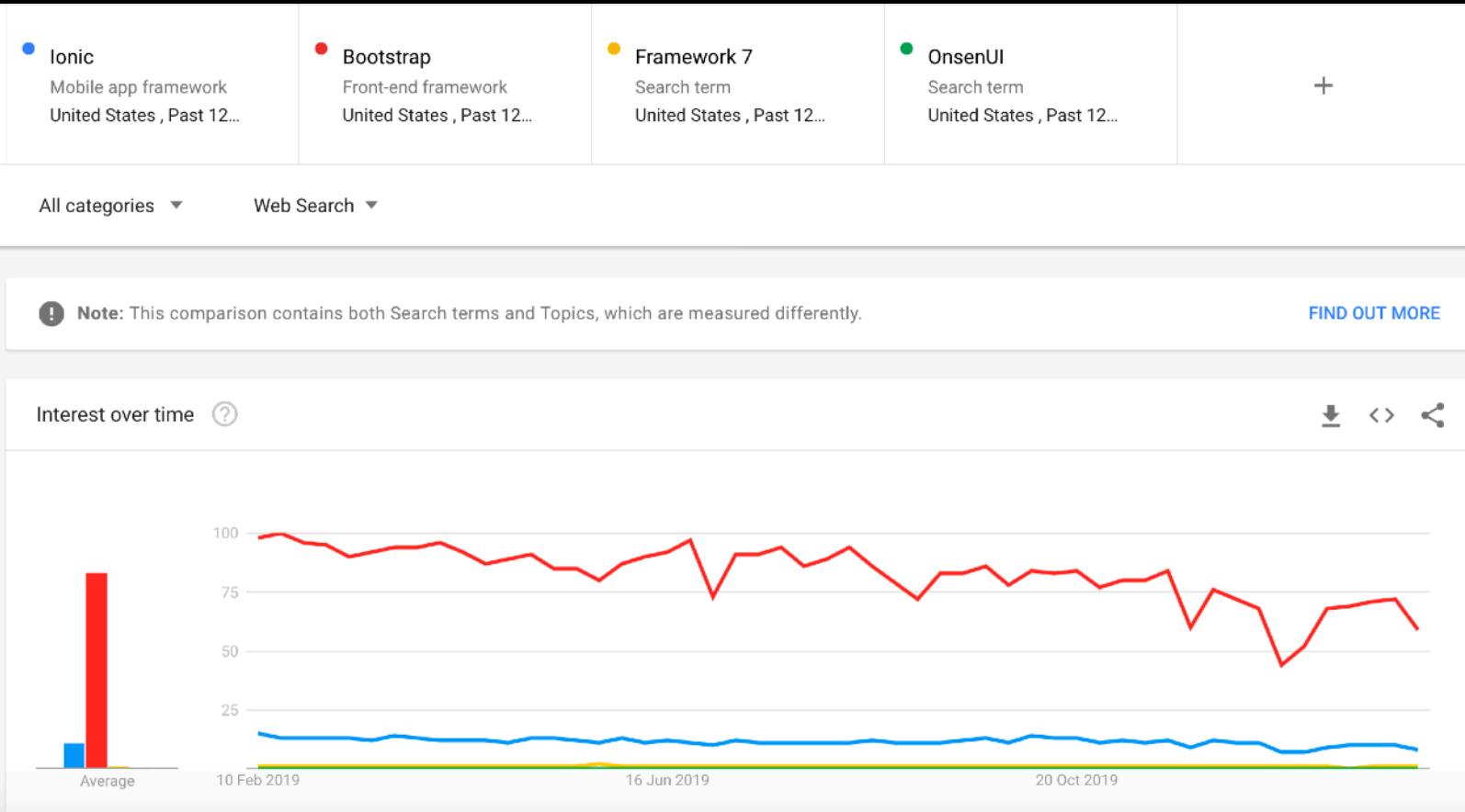
2. Postmates

The [on-demand food delivery app](#) also recently shifted to Kotlin for its Android version of the mobile app. The reason for this switch from Java to Kotlin can be attributed to the fact that the language is famous for supporting high scalability and is known to be engineered around a fail-fast mechanism.

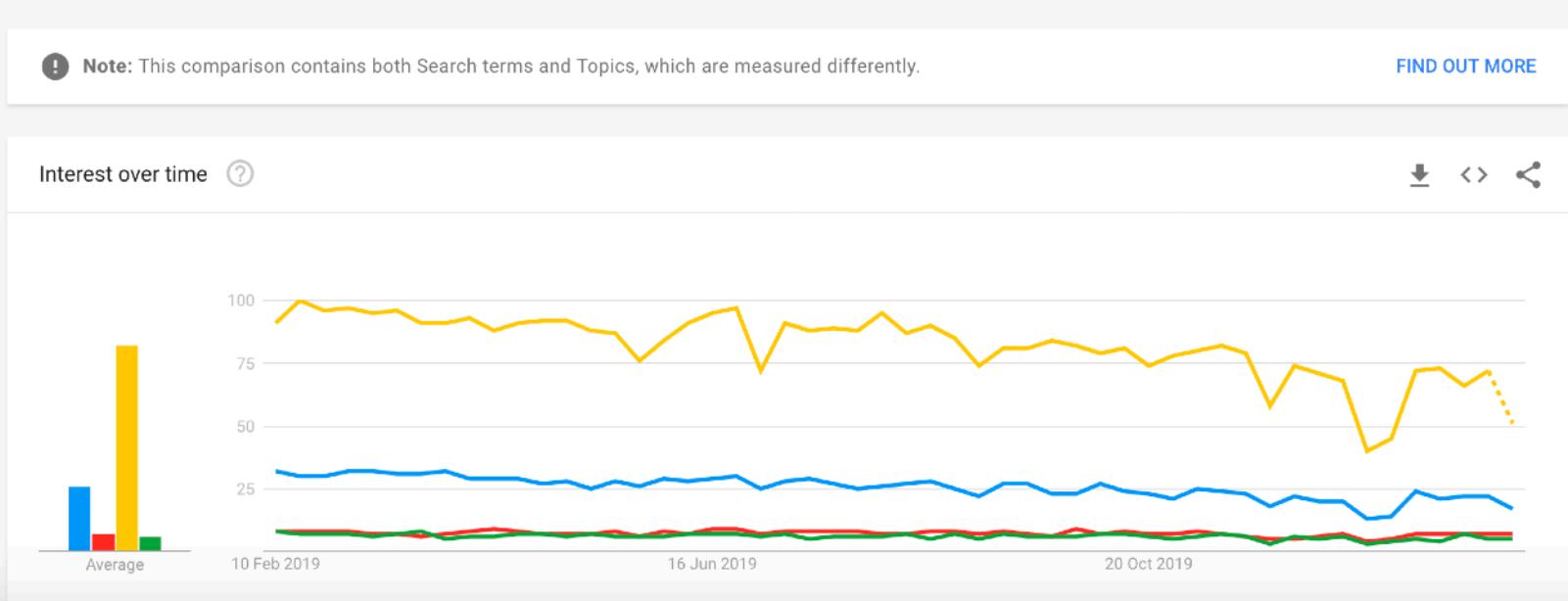
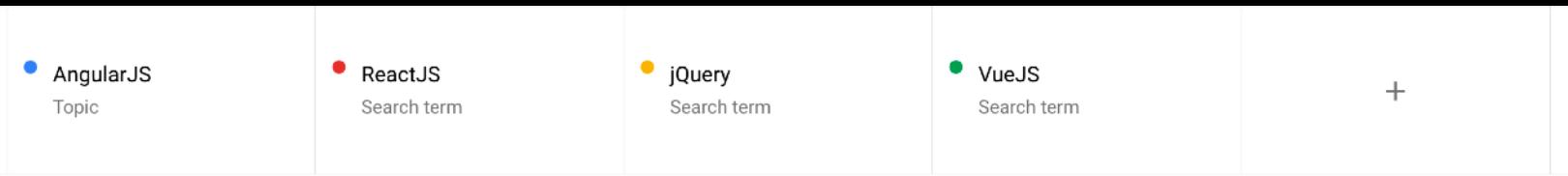
3. Evernote

The note-taking and task organization app also have integrated Kotlin in their Android client.

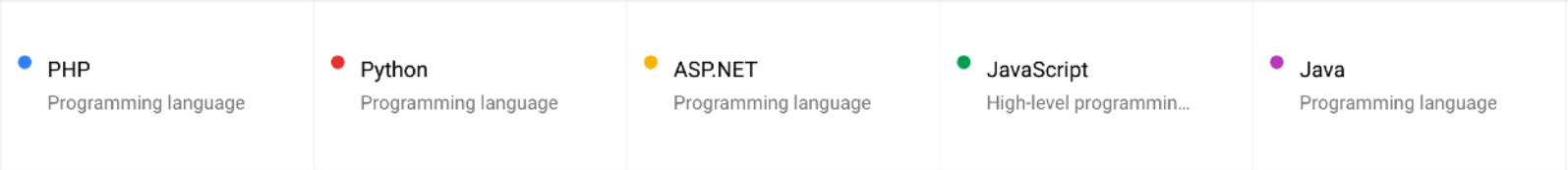
Front-end and Back-end Language Adoption Trends



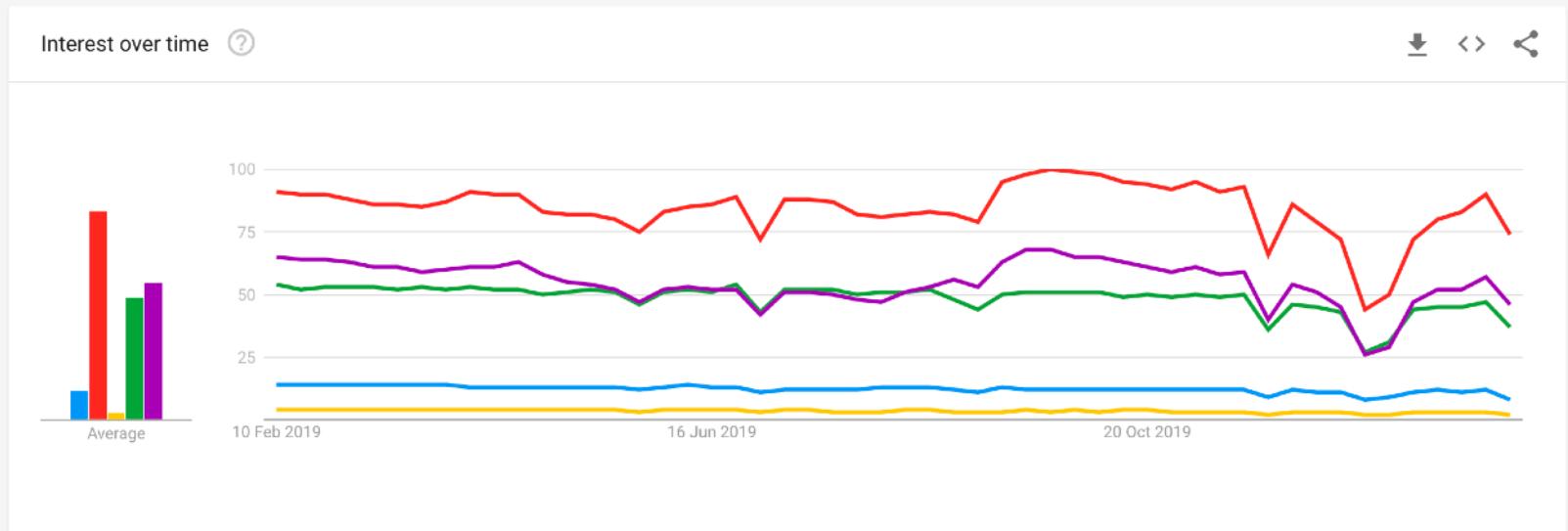
JS UI Components Framework Search Trend



Frontend JS Framework Search Trend



United States ▾ Past 12 months ▾ All categories ▾ Web Search ▾



Back-end Programming Language Search

Flask
Web framework

Django
Web framework

ASP.NET
Programming language

Express.js
Software

Spring Framework
Topic

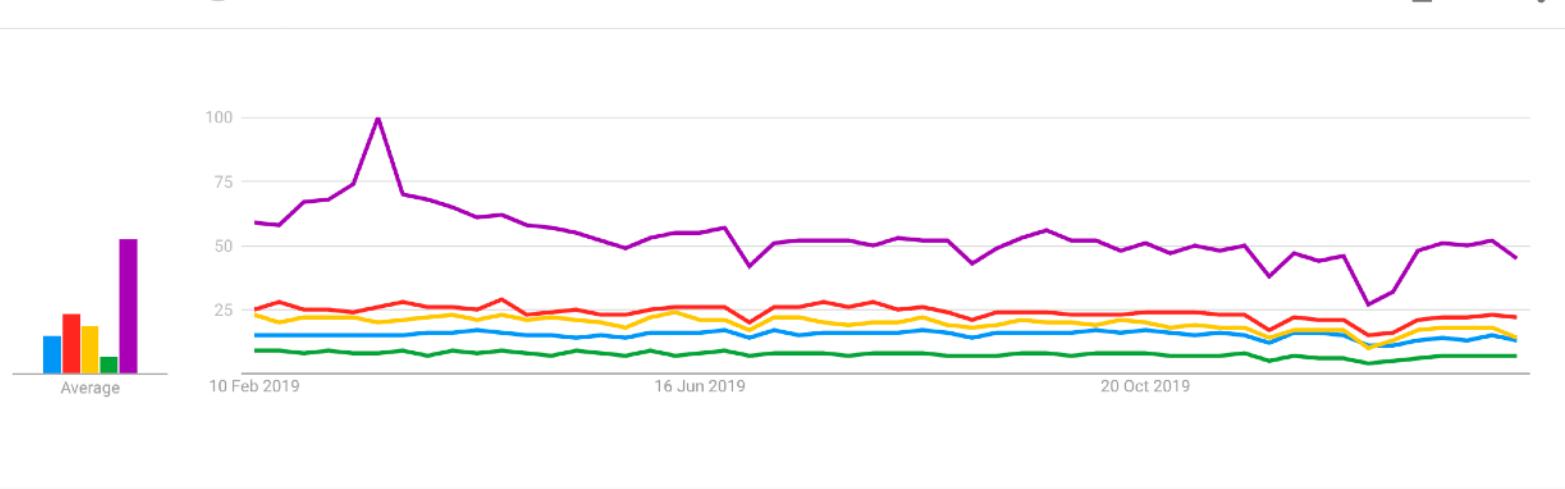
United States ▾

Past 12 months ▾

All categories ▾

Web Search ▾

Interest over time ?



Backend Framework Search Trend

● Kotlin
Programming language

● Flutter
Software

● Apache Cordova
System software

● React Native
Search term

● Xamarin
Company

United States ▾

Past 12 months ▾

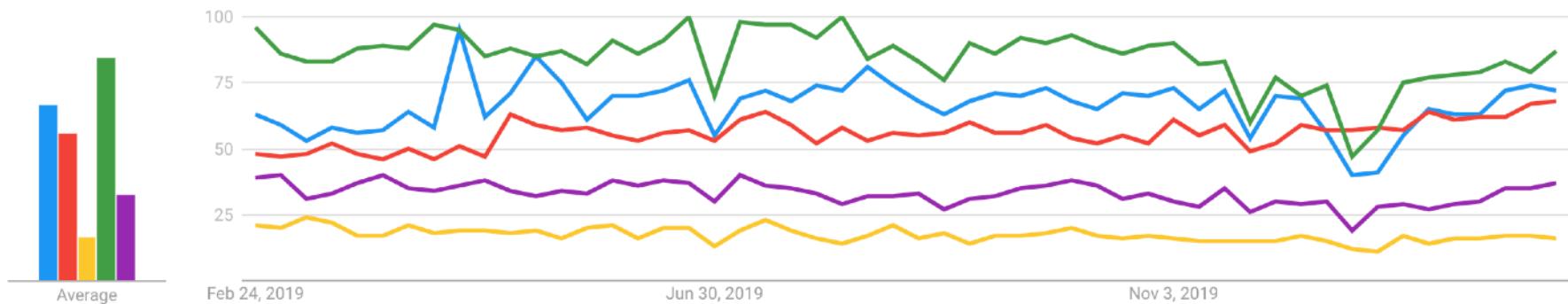
All categories ▾

Web Search ▾

! Note: This comparison contains both Search terms and Topics, which are measured differently.

[LEARN MORE](#)

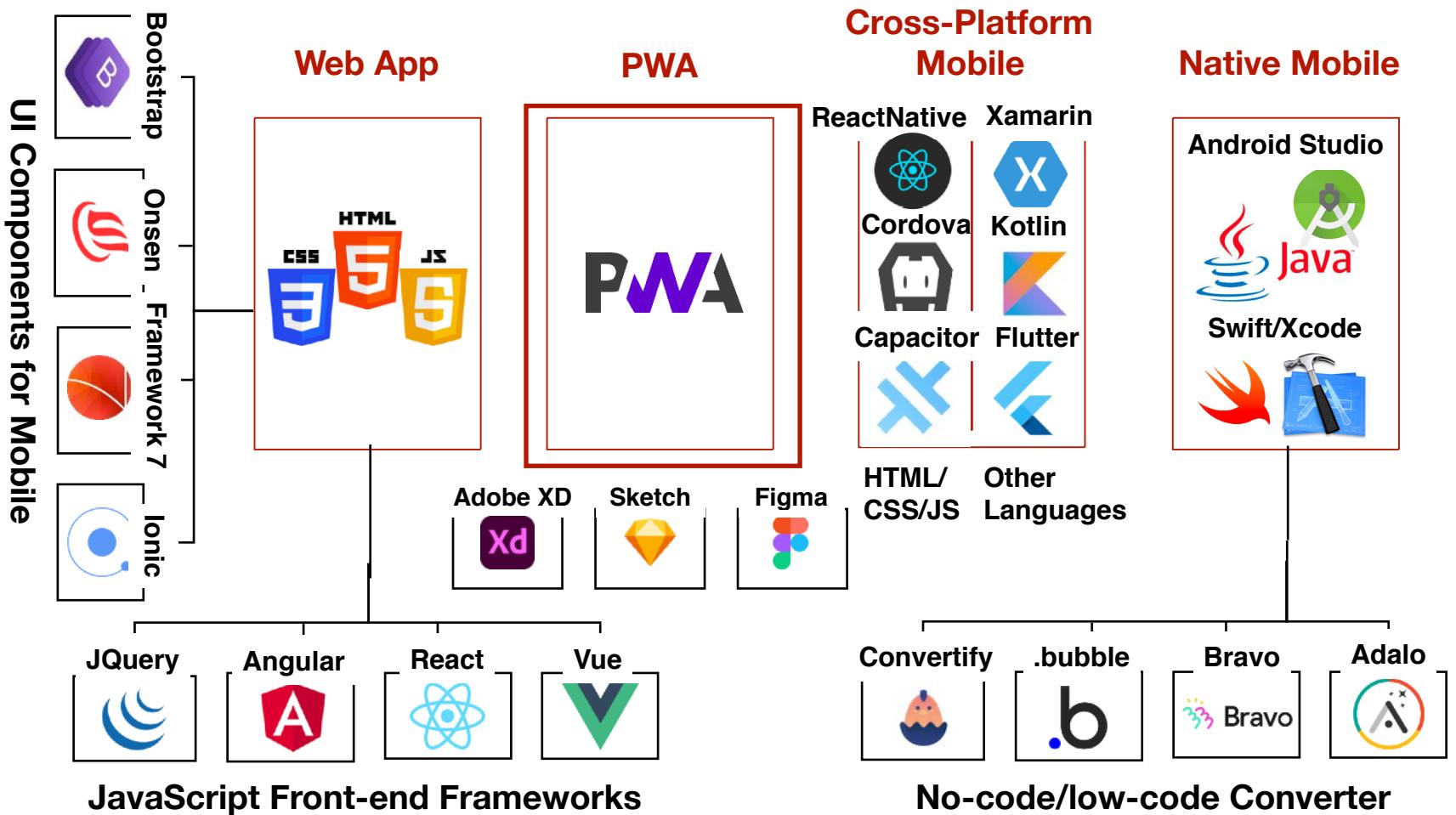
Interest over time ?



Search Trend

The trend in using Progressive Web App

PWA





What are Progressive Web Apps (PWAs)?



Examples



1. AliExpress (<https://m.aliexpress.com>)
2. Forbes (<https://www.forbes.com>)
3. Pinterest (<https://www.pinterest.com>)
4. Lancôme (<https://www.lancome-usa.com>)
5. Starbucks (<https://app.starbucks.com>)
6. Uber (<https://m.uber.com>)
7. Spotify (<https://open.spotify.com>)
8. The Washington Post (<https://www.washingtonpost.com>)
9. Trivago (<https://www.trivago.com>)

How to easily turn your website to a Progressive Web App(PWA).



Illemona Achimgu

Follow

Aug 12 · 13 min read



PWA Logo (Wikipedia)

Progressive Web Apps are the new and trending way to introduce the feel of a native app to a normal or traditional web app. Progressive Web Apps are

<https://codeburst.io/how-to-easily-turn-your-static-website-to-a-progressive-web-app-pwa-b0af08da9693>

PWA Stats

A community-driven list of stats and news related to Progressive Web Apps

brought to you by  Cloud Four

AliExpress improved conversion rate for new users by **104%** across all browsers, with **2x** more pages visited and **74%** more time spent per session.



#E-commerce #Offline



Alibaba increased conversions on the mobile web by **76%**, with **14%** more monthly active users on iOS and **30%** more on Android.



#B2B #Home Screen #Notifications



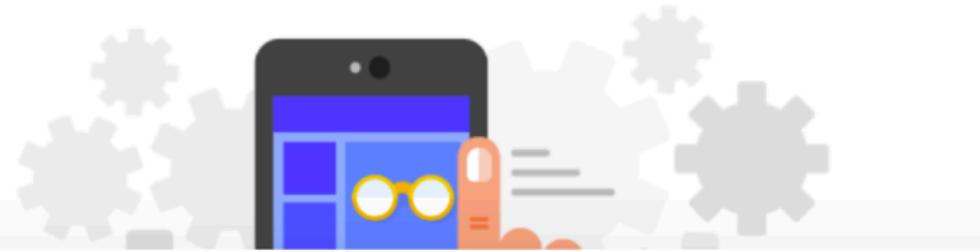
<https://www.pwastats.com/page5/>

比App更好用的PWA，让小程序相形见绌的新标准

2018年03月21日 08:44 观察君2017



Progressive Web Apps，意为渐进式 Web App，它源自Google 在 2015 年推出的一个项目，旨在让 Web 网页通过 OS 层面的进程支持，具备类似原生 App 的使用体验。



<https://t.cj.sina.com.cn/articles/view/5824404251/15b295b1b001004wlh>



新浪首页



语音播报



相关新闻



ifanr

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知晓云

糖纸众测



无需下载、打开即用！这 8 个 Google 版小程序真的
太好用了

<https://www.ifanr.com/app/1243437>

“

渐进式 Web 应用会在桌面和移动设备上提供可安装的、仿应用的体验，可直接通过 Web 进行构建和交付。它们是快速、可靠的 Web 应用。最重要的是，它们是适用于任何浏览器的 Web 应用。

“

PWA（Progressive web apps，渐进式 Web 应用）运用现代的 Web API 以及传统的渐进式增强策略来创建跨平台 Web 应用程序。这些应用无处不在、功能丰富，使其具有与原生应用相同的用户体验优势。

Why PWA?

1. It takes time and resources to develop an application for cross-platform (Android and iOS) development.
2. Approval (上架) takes time for app to appear in the store.
3. Quick to download and launch, like typical **mobile** experience.
4. PWA supports the popular mobile functions such as notification and camera.
5. PWA can be easily distributed through shared links, especially by KOL.

Nocode/Low-code Converter/Generator

Converters



Convertify

Features

Examples

FAQ

Pricing

Convert



Convert your website to an app.

You can convert your website to an Android & iOS application with just your URL.

Convert

Please submit your website URL.



<https://convertify.app/>

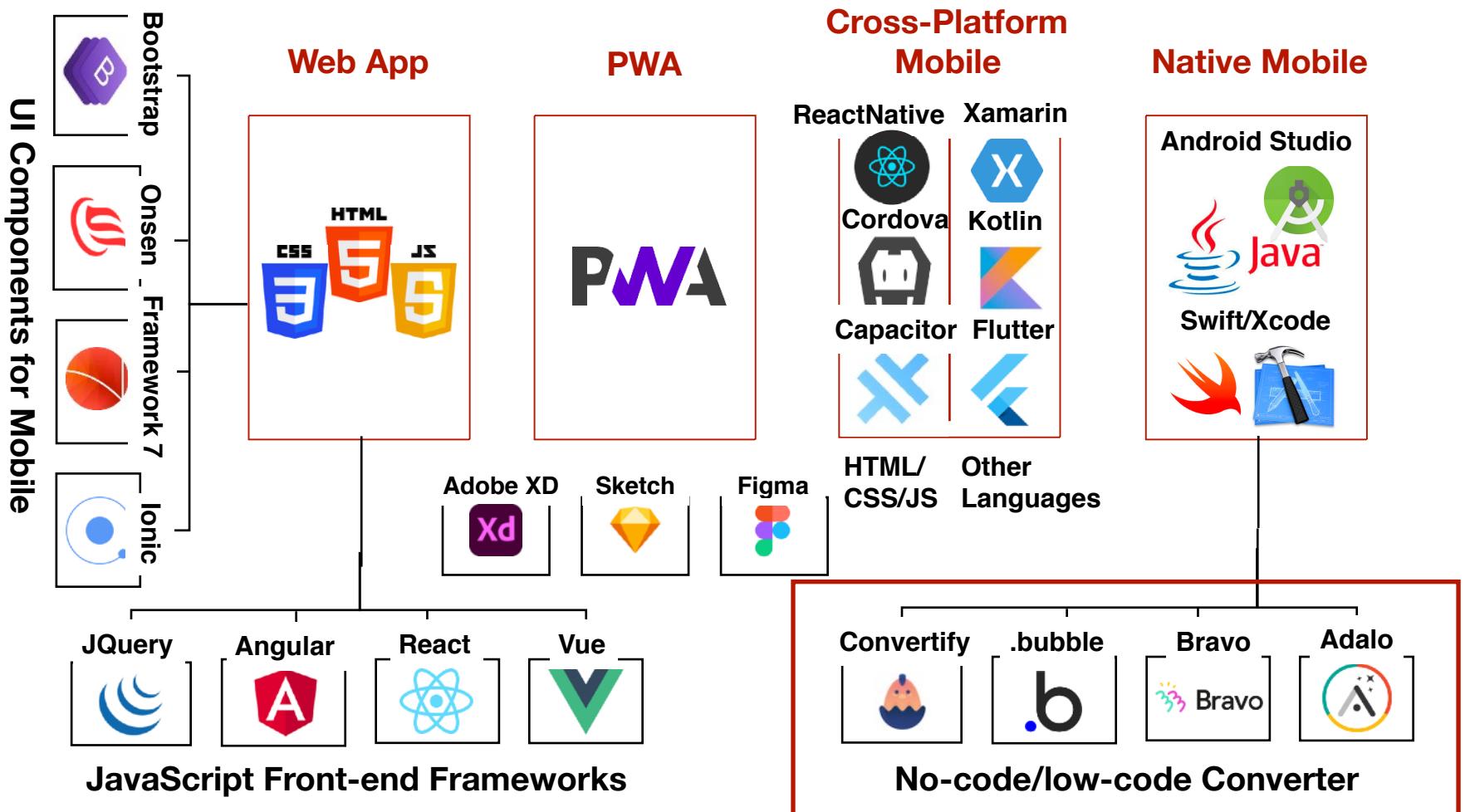
Convert designs from Figma to Sketch or Adobe XD with a single click.

Do you need to export *unlimited* designs from Figma to Sketch or Adobe XD files? This Figma



<https://www.figmaticapp.com/convertify/>

**No-Code App Generators that
work with Sketch and Figma**



Design to Code

BuilderX is a browser based design
tool that codes React Native & React
for you

By using this site you agree with our Privacy Policy ×

<https://builderx.io/>



Sketch to React Native & React

Seamlessly convert Sketch designs to React Native & React UI

Warning: Importing Sketch file may not give expected results as it is very difficult to perfectly map design from a Sketch file to code. We recommend using the in-built designer of BuilderX to get a better code output as it is better suited for conversion to code.

<https://builderx.io/>

PRICING

**Free to start building.
Pay as you grow.**

 Email address**Get started for free**

Every plan includes all of the core platform features required to create and host a fully functional web app. All paid plans include email support, white labeling, real-time analytics, and more.

Pay annually**Pay monthly**

BUBBLE x FIGMA

Import your Figma designs and turn them into an app in one click.

Leverage Figma's design to start your application and add backend functionality with no-code.



+ **.bubble**

About the Bubble Figma Integration

The integration lets you specify the Figma file you want to import, and Bubble will bring every visible frame in that file into the

 Built on Bubble

<https://bubble.io/>

HOW TO BUILD

Learn how to build any web app without a single line of code.

Bubble's "How to Build" series of walkthroughs will show you how to build any kind of app step-by-step.

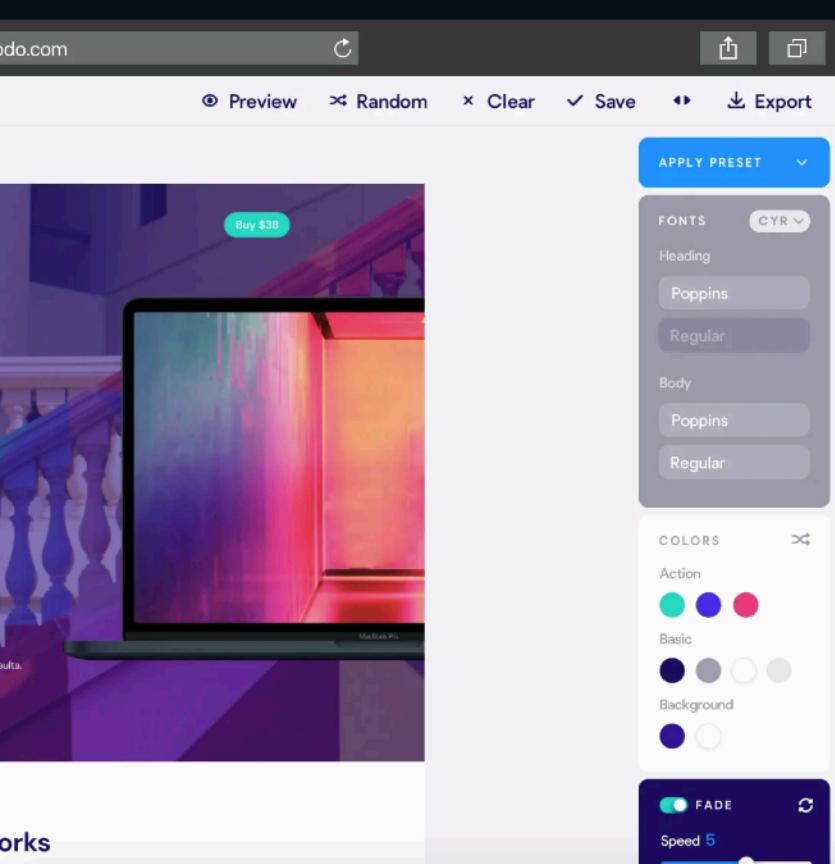
Find a tutorial..

How to build Udemyv

How To Build a Udemy Clone With No Code

.b Built on Bubble

<https://bubble.io/how-to-build>



Simple Bootstrap Builder for Everyone

Create websites online using the Startup Bootstrap builder. It's a fast and easy way to start your business presence online, with the help of pre-designed blocks.

27k customers

300+ blocks



Award-winning app

Regularly updated

<https://designmodo.com/startup/sources/>

FREE FIGMA SOURCES

All the components created with care in Figma, and available for non-commerical use.

FIRST NAME

Your first name

SECOND NAME

Your second name



<https://designmodo.com/startup/sources/>



⚡ Features

🎓 Resources

👉 #MadewithBravo

🤝 Bravo Friends

🚀 Pricing

Log in

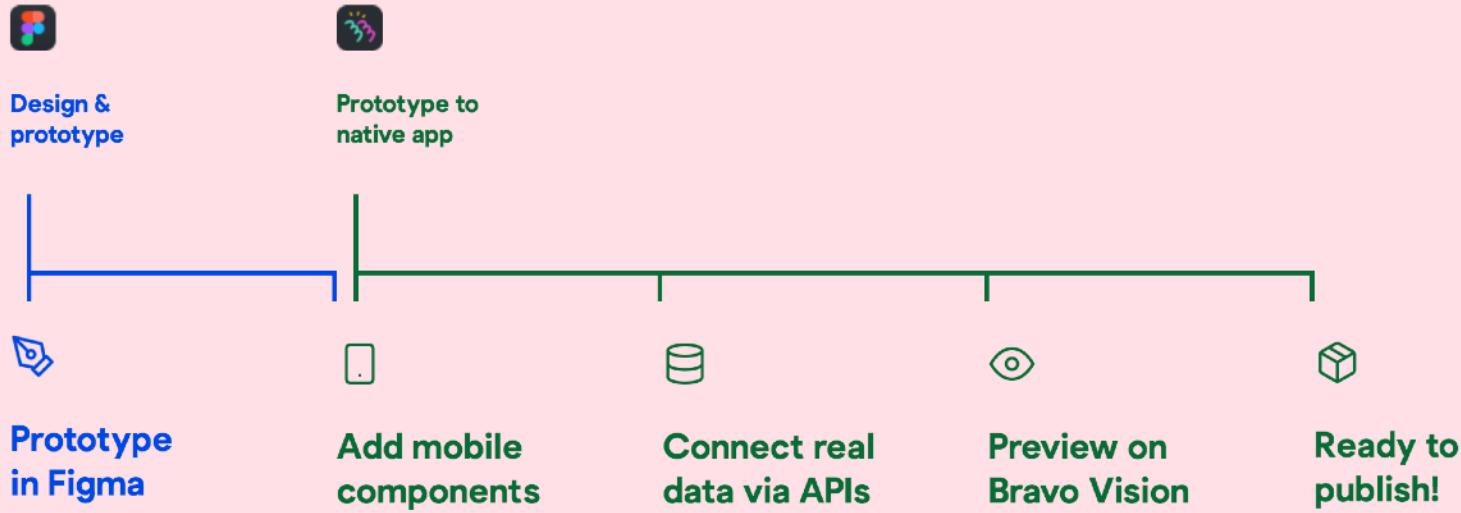
Sign up

5 Product Hunt
#5 Product of the Day

From Figma app prototype to iOS and Android app. No-code.

The best native app builder that turns your Figma app prototype into native iOS and Android app without writing code

<https://www.bravostudio.app/>



<https://www.bravostudio.app/>



No more friction between idea and the final product

Start testing your designs as real native apps in iOS & Android thanks to Bravo Vision. No mirroring, no cables. Fully functional apps.

[Download Bravo Vision](#)



Instant design & data sync

Instantly preview design changes with Bravo Vision while maintaining all app content in real time sync with your database and 3rd party tools.

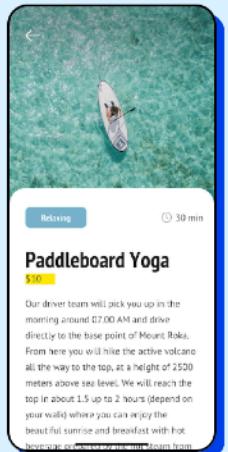


Share the real thing, not just ideas

Easily share your app with friends, clients and project team by simply logging into Bravo Vision to test and experience what you are working on.

**Create a real native app from
a Figma app prototype**

Create a real native app from Figma app prototype



How to Get Started

1. Import

Design & Import a Figma app prototype into Bravo and learn about Tags & Containers



[Open Figma File](#)

2. Vision

Download Bravo Vision previewer app



[Download Bravo Vision](#)

3. Connect

Connect Airtable or any REST API data to your app



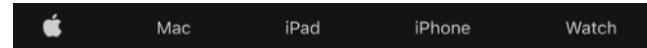
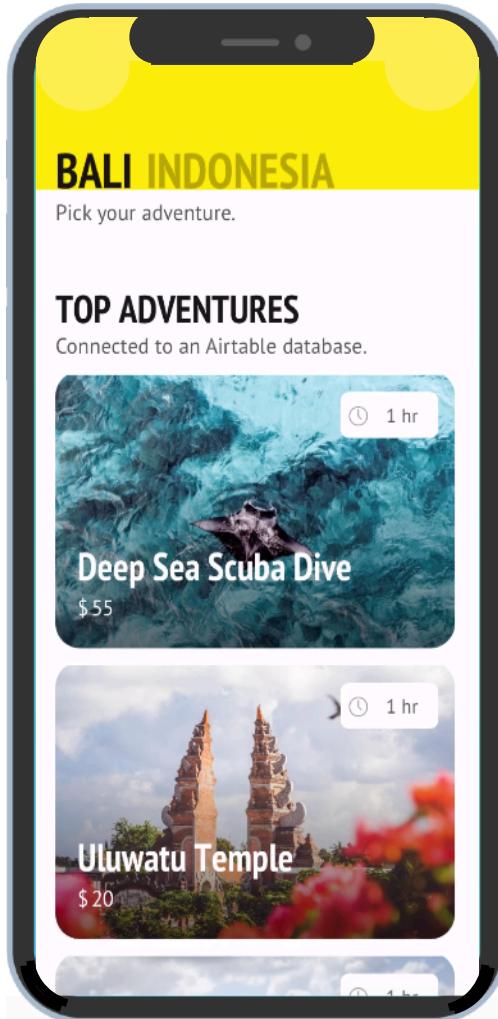
[Start Tutorial](#)

4. Publish

Request App Packages and publish your Bravorized app to Google Play or App Store



[Learn how](#)



<https://www.notion.so/Using-the-Airtable-API-Wizard-f2e75dde9f13419f93661a9e116c1ac3>

Adventure Listing ⓘ

[Copy base](#)

Adventures

Views

Adventure Listing

...

Hide fields

Filter

Group

Sort

⋮

🔍

Find a view

Adventure Listing ✓

Activity Name	Photos	Length	Price	Location	Description
1 Deep Sea Scuba Dive		1 hr	\$55	Ubud	Our driver
2 Jetski Island Tour		1 hr	\$40	Canggu	Our driver
3 Paddleboard Yoga		30 min	\$10	Kuta	Our driver
4 Advanced Surf Lesson		2 hrs	\$25	Denpasar	Our driver
5 ATV Ride		3 hrs	\$45	Jimbaran	Our driver
6 Black's Beach		45 min	\$15	Kintamani	Our driver
7 Uluwatu Temple		1 hr	\$20	Ubud	Our driver
8 Quad Bike Tour		1 hr	\$55	Canggu	Our driver
9 Canoe to Waterfalls		30 min	\$40	Kuta	Our driver
10 Snorkeling in Blue Lagoon		3 hrs	\$25	Jimbaran	Our driver
11 Surf School		45 min	\$30	Kintamani	Our driver
12 Sunrise Breakfast Trip		2 hrs	\$25	Ubud	Our driver
13 Volcanic Trek		3 hrs	\$25	Denpasar	Our driver

15 records

Sum \$505

Bravo Sample: Expeditions Guide ✎ Sample Bravo app kit * Travel App ✎ +

Sample Bravo app kit * Travel App View only

B M Share 18% ▾

Page 1 ▾

Menu [menu:slide]

Adventure list

Adventure detail

Featured activity

[asset:splash]

[asset:icon]

[asset:icon]

[asset:spl...]

Menu [me...]

Adventur...

Adventur...

Featured ...

Inspect Export

CSS ▾

background: #E5E5E5; ▾

?

Bravo Sample: Expeditions Guide Sample Bravo app kit * Travel App

Sample Bravo app kit * Travel App View only

B M Share 100%

Page 1

Menu [menu:slide]

Adventure list

[container:top-bar]

menu [component:svg]

Section title

*Activity card

clock icon

*2 hrs

Time BG

Group 2

*Activity Name

*Main image

Adventure detail

Frame

Featured activity

[asset:splash]

[asset:icon]

Adventure list

375 x 78

BALI INDONESIA

Pick your adventure.

TOP ADVENTURES

Connected to an Airtable database.

Activity Name
\$ Price

2 hrs

Inspect Export

[container:top-bar]

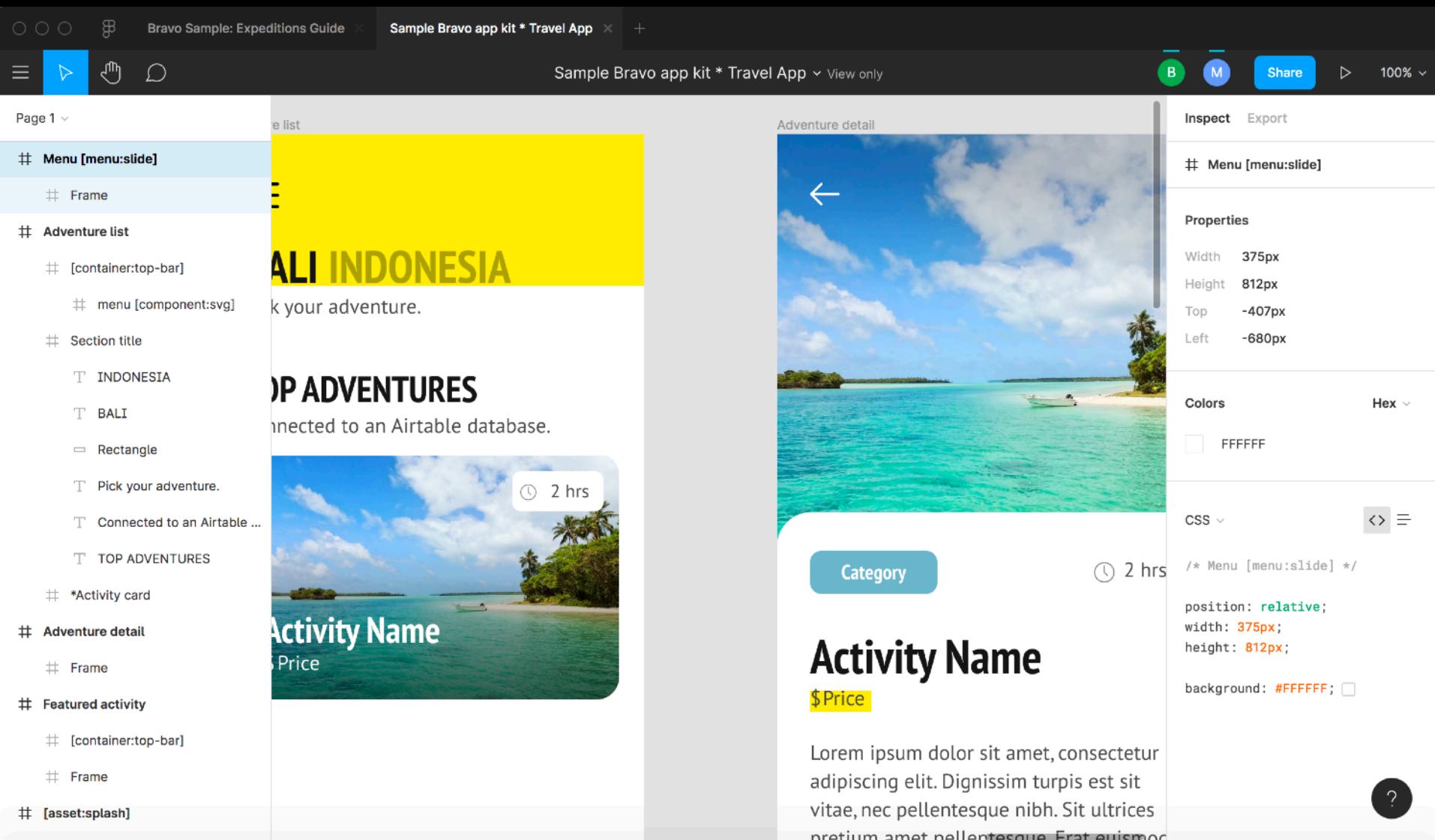
Properties

Width 375px

Height 78px

CSS

```
/* [container:top-bar] */  
  
position: absolute;  
width: 375px;  
height: 78px;  
left: 0px;  
top: 0px;
```





Bravo

Projects

Data Library

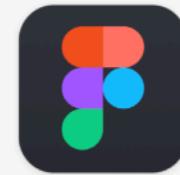
Sample apps

Bravo Tags List

Community

Feedback

Logout



Import your design

Enter the link of your Figma file below to create a Bravo project

https://www.figma.com/file/...

Import

Don't have a figma doc? Try [Bravo Starter Kit](#)

Help



Bravo

Projects

Data Library

Sample apps

Bravo Tags List

Community

Feedback

Logout

Upgrade

SL bsysin

Import Figma File

My Apps

Search



Sample Bravo app kit *

Travel App

9 minutes ago

Feedback

Help



Projects

Data Library

Sample apps

Bravo Tags List

Community

Feedback

Logout



Sample Bravo app kit * Travel App

Screens

Publish

Settings



Menu



ASIA & PACIFIC

FEATURED TRIP

AFRICA

S. & C. AMERICA

N. AMERICA

ITINERARY

PACKING LIST



BALI INDONESIA

Pick your adventure.

TOP ADVENTURES

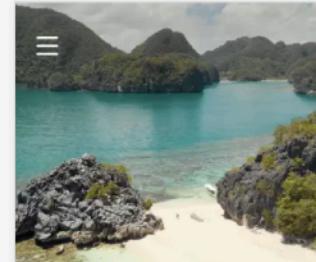
Connected to an Airtable database.



Activity Name

\$Price

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Dignissim turpis est sit vitae, nec pellentesque nibh. Sit ultrices pretium amet pellentesque. Erat euismod tellus tincidunt ultricies viverra. Est euismod mi ut eros in id neque. Lectus integer pellentesque auctor facilisi pulvinar.



Featured Activity

\$35 per person

Meeting point: Plaza Rosamo

Coin of paradise at over 550m altitude, Roka Island is an imposing mountain located southwest of Bali. Amazing because of its extreme aridity during the dry season, we take advantage of its height for hiking on the mountainside and discover breathtaking views. But more than just a trek destination, Le Roka Island is also famous for its

Menu

Nov 27, 2020 7:47 PM

Adventure list

Nov 27, 2020 7:47 PM

Adventure detail

Nov 27, 2020 7:47 PM

Featured act

Nov 27, 2020 7:47 PM





Projects

Data Library

Sample apps

Bravo Tags List

Community

Feedback

Logout



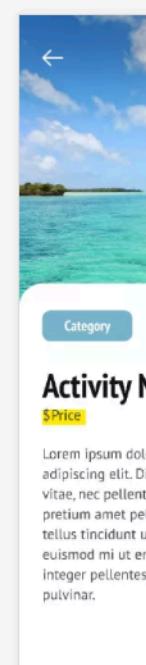
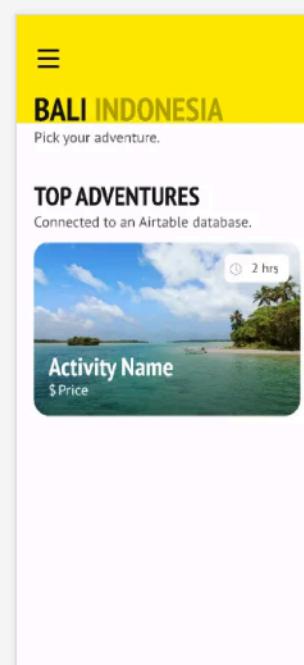
Sample Bravo app kit * Travel App

Screens

Publish

Settings

Menu



Menu

Nov 27, 2020 7:47 PM

Adventure list

Nov 27, 2020 7:47 PM

Adventure detail

Nov 27, 2020 7:47 PM

Featured act

Nov 27, 2020 7:47 PM

Help

Scan to open Bravo Vision

Download Bravo Vision to preview your app project on your phone



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App Store

Visit from your device
www.bravostudio.app/download-bravo-vision

Meeting point: Plaza Rosamo

Coin of paradise at over 550m altitude, Roka Island is an imposing mountain located southwest of Bali. Amazing because of its extreme aridity during the dry season, we take advantage of its height for hiking on the mountainside and discover breathtaking views. But more than just a trek destination, Le Roka Island is also famous for its...



Bravo

Projects

Data Library

Sample apps

Bravo Tags List

Community

Feedback

Logout

Data Library

Search

+ New Collection

Your Data Collections

Organize your API requests by creating a collection for each data source.



Adventure List...

<https://airtable.com/shrM...>

+ New Collection

Help



Bravo

Projects

Data Library

Sample apps



Adventure Listing



Saved

[Advanced view](#)

👉 Now it's time to connect this data collection to your app.

Select one of your projects to get started.

[Learn how](#)

[Go to Projects](#)

⚡ Bravo Tags List

Requests

○○ Community

Adventures - Detail



💬 Feedback

Adventures - List



Logout

[Help](#)



Bravo

Projects

Data Library

Sample apps

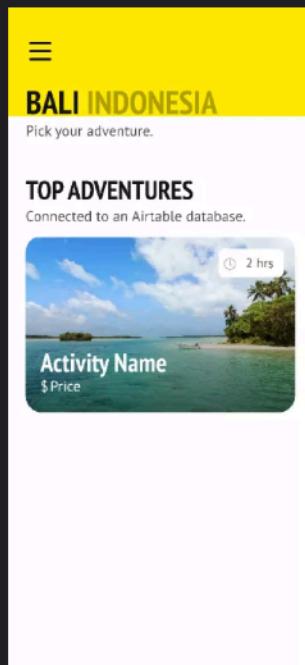
Bravo Tags List

Community

Feedback

Logout

Adventure list



Data Binding

Open data request

1. Select request

Adventure Listing

GET Adventures - List

2. Select Visual Elements

Search

*Activity card

*Main image

*Main image (GRADIENT_LINEAR)

*Activity Name

\$

*Price

X

Element binding

T *2 hrs

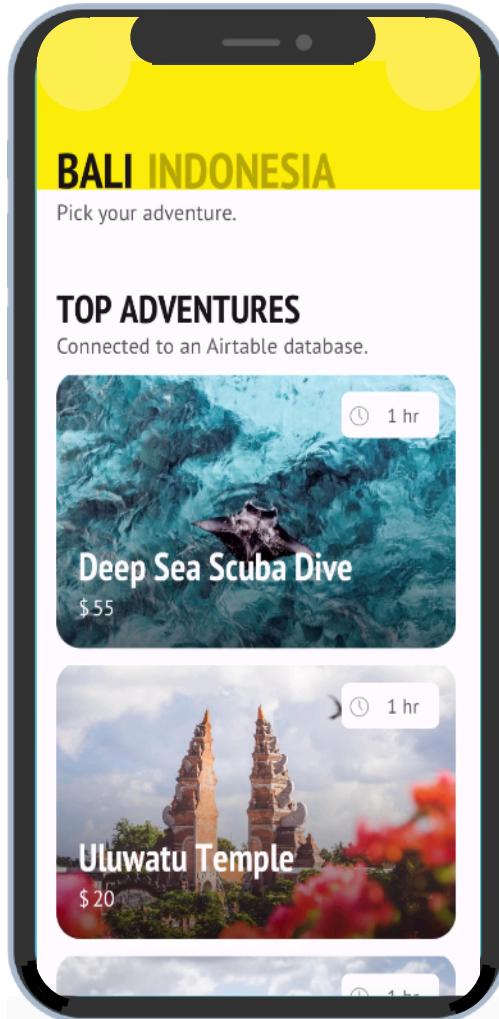
Content

T Text

GET Adventures - List

Length

Help



<https://www.notion.so/Using-the-Airtable-API-Wizard-f2e75dde9f13419f93661a9e116c1ac3>

All-in-one No-Code App Generators

[APP BUILDER](#)[MOBILE APP CMS](#)[PRICING](#)[RESELLER](#)[CONTACT US](#)[JOIN](#)[LOG IN](#)

App builder to make your app without coding

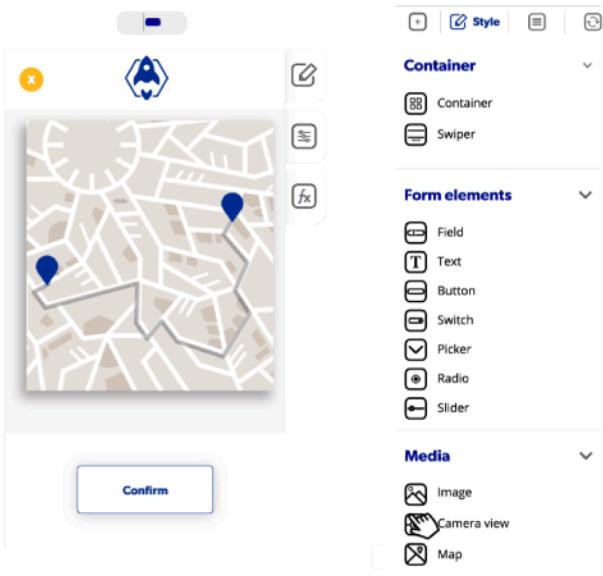
No code app maker that lets anyone build Android & iPhone apps in 3 easy steps.

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[accenture](#)[L'ORÉAL](#)[NHS](#)[ASSURANTTM](#)[Southwest[®]](#)

<https://www.appypie.com/app-builder/appmaker>

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Create an App for Free

No code app builder

The most powerful app builder!

Drag elements, customize and publish.

[Get Started](#)

<https://apphive.io/>

Introducing Composer Pro

You will never go back to coding. Seriously.

The world's first professional no-code platform, enabling you to build apps for all form factors, including mobile, desktop, browser, TV and others.

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OK

<https://www.appgyver.com/>

★ New! The Component Marketplace is here. Create your own custom components! → X



Product ▾

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Experts

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Log In

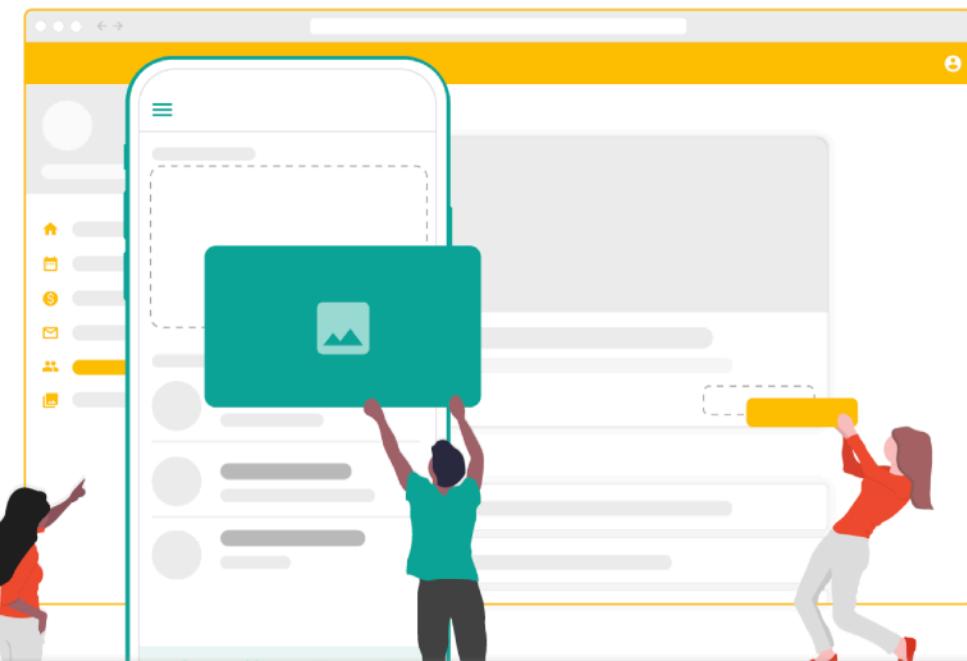
SIGN UP

Meet Adalo.

Turn Your Client'
Into Reality Without Coding!

GET STARTED FOR FREE!

▶ WATCH VIDEO



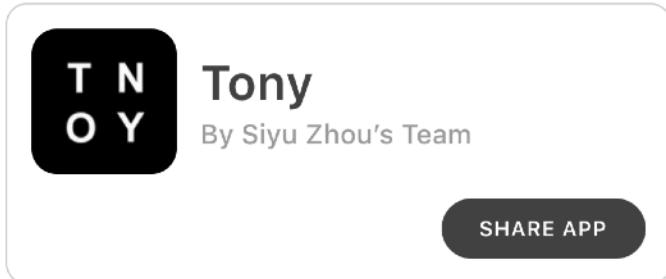
Yay! Cookies! To personalize your experience, we uses cookies. By continuing you agree.

SOUNDS GOOD

Resolving host...

<https://www.adalo.com/>

**No-code example
from previous students (com5940).**



Scan to Install

*If your camera doesn't have a QR code scanner,
you can [send the link via sms](#) or [copy the link here](#).



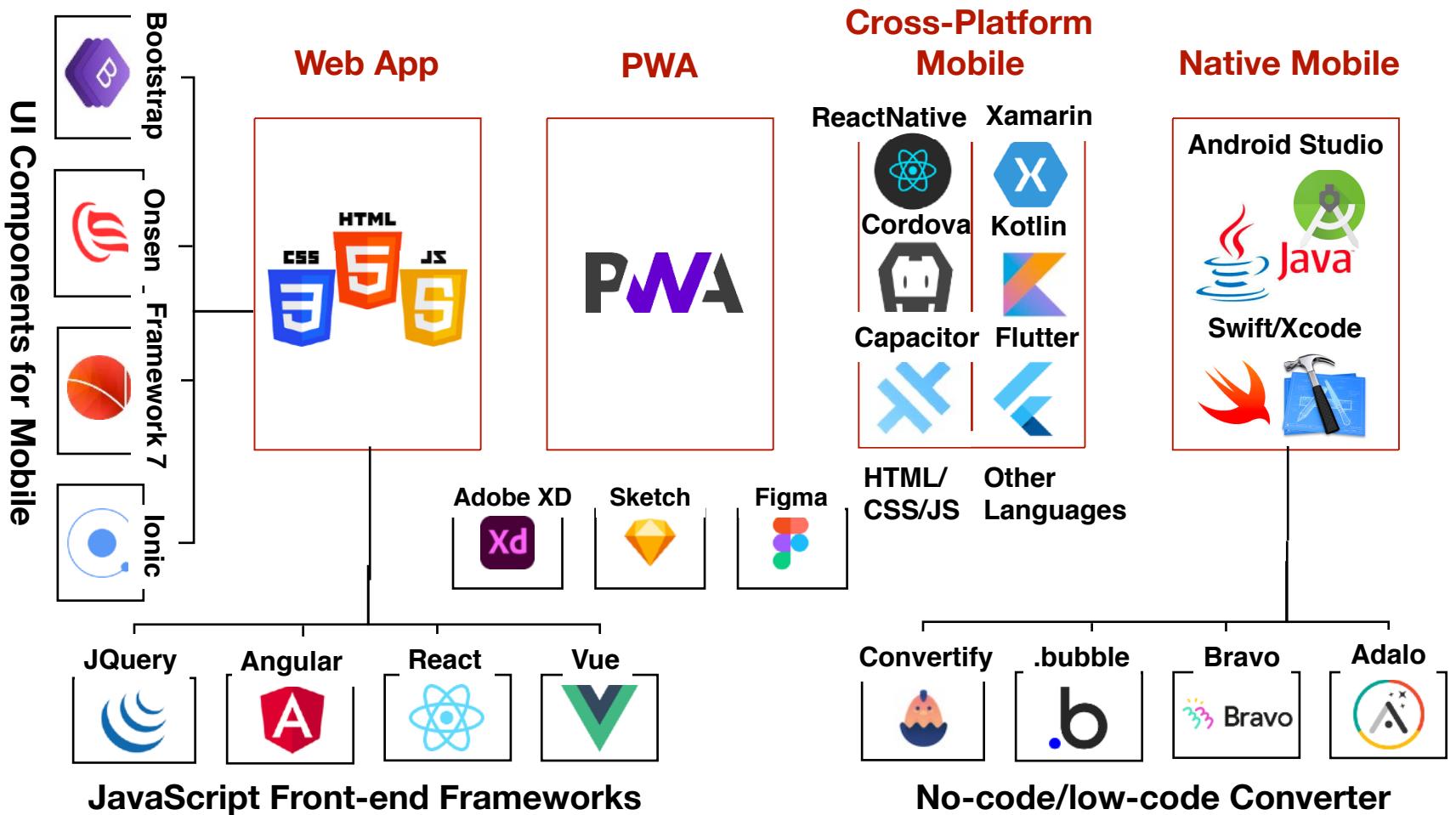
<https://previewer.adalo.com/ec8f2d77-7957-4caf-a171-4957a698102a?target=1g6tj7tp0d67xfweckvxpdztd¶ms=%7B%7D>

**Limitations with all-in-one
no-code generator.**

1. The **positioning** of this kind of product get stuck in the middle.
2. UX/UI designers find the **UI** handling parts too **limiting**.
3. Developers find the **business logic** and **back-end** handling parts too **limiting**.
4. When used only for **design** and **prototyping**, it is **not as competitive as Sketch, Adobe XD and Figma**.

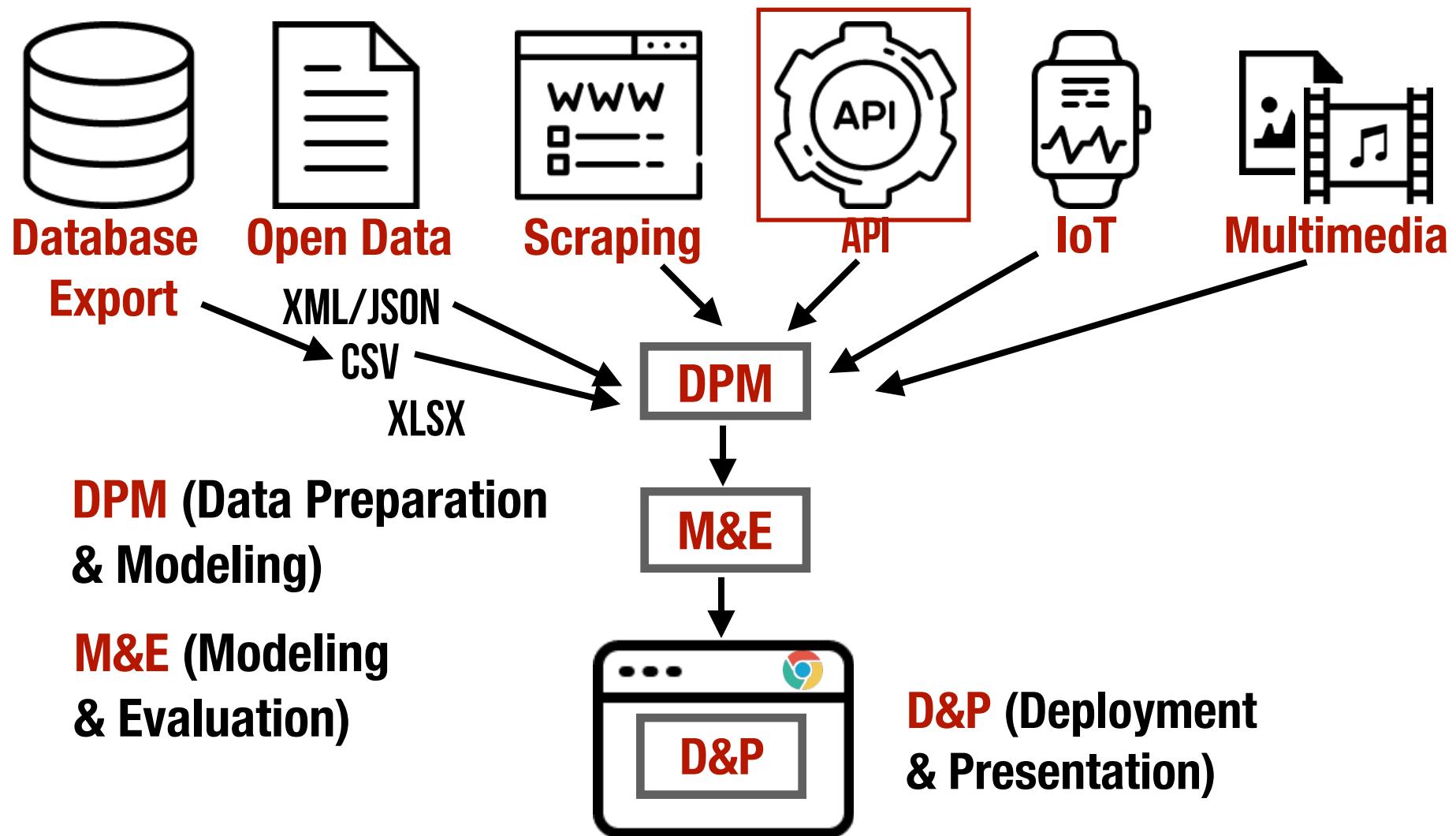
Implications for PM

1. Leverage no-code/low-code tools for **rapid cross-platform** development.
2. **Division** of labor among team members will change.
3. Cut down development **cost** with **quicker** product release iteration and **less** human labour.
4. Native code **optimisation** can be done **later** once market validation is completed.



**As a project lead, how are you going
to choose your front-end stack (i.e.
suite of tools)?**

Micro-Services and API





Google Cloud Platform



Prediction API



Natural Language
API



Translation API



Vision API



PayMe Marketplace API
PayMe • paymeapi

Documentation

Inspector



PayMe Marketplace API

Download
API Blueprint

INTRODUCTION

API Capabilities and Structure

Getting Started and Connection Details

Service URLs

Credit Card Numbers for Testing Purposes

INTRODUCTION

Our API is designed to allow platforms to offer a full payment solution as part of their product.

Using the API you can:



Home

Documents

WeChat payment API development documents, [Chinese](#)



Quick Pay

Buyers can present the pay code, vendor will scan the code to finish the transaction.



Alibaba Open Platform

Home

Resources

Platform

Tmall.hk

API for Alibaba

Sourcing API : [Click here](#)

WholeSale API:[Click here](#)

GROWTH STRATEGY

The Strategic Value of APIs

by Bala Iyer and Mohan Subramaniam

JANUARY 07, 2015

McKinsey&Company
Digital McKinsey

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Article
October 2017

Management's next frontier: Making the most of the ecosystem economy

By Jürgen Metzert and Anand Swaminathan

API經濟來了：從開放創新到Open API

by 《數位時代》整合行銷部 2014.11.04



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Article
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What it really takes to capture the value of APIs

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API economy

From systems to business services



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Realizing the economic value of APIs

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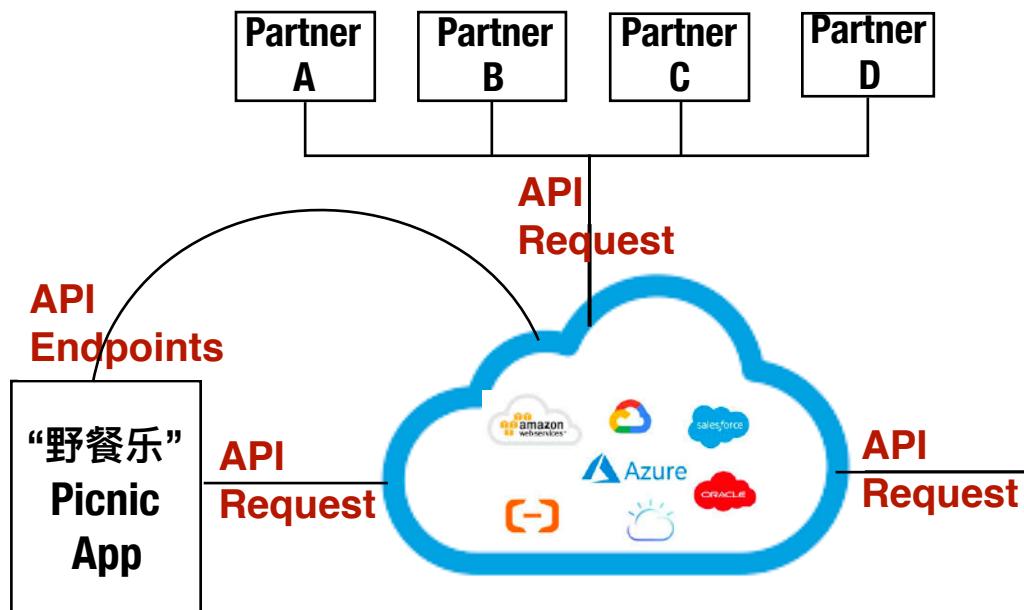
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To Be or Not To Be

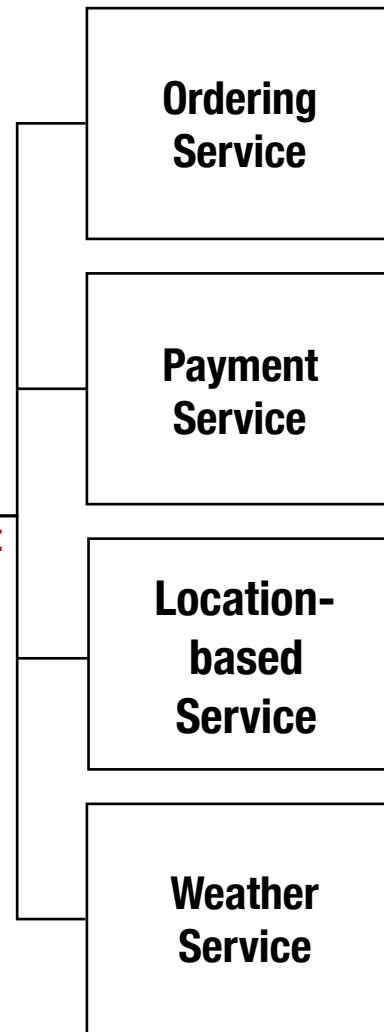
生存還是毀滅，這是你面對的一個問題

Business partners requesting your services through API requests.



Micro-services formed the foundation for providing features needed by the application to serve the ultimate users/customers

Micro-services



和风天气



Airtable API Endpoints Example

INTRODUCTION

RATE LIMITS

AUTHENTICATION

PRODUCT TABLE

Fields

List records

Retrieve a record

Create records

Update records

Delete records

ROLL-UP TABLE

VENUES TABLE

USERS TABLE

SW_PRODUCT TABLE

ERRORS

List Product records

To list records in `Product`, issue a **GET** request to the `Product` endpoint.

Returned records do not include any fields with "empty" values, e.g. `" "`, `[]`, or `false`.

You can filter, sort, and format the results with the following query parameters. Note that these parameters need to be URL encoded. You can use our [API URL encoder tool](#) to help with this. If you are using a helper library like [Airtable.js](#), these parameters will be automatically encoded.

fields `array of strings` optional
 Only data for fields whose names are in this list will be included in the result. If you don't need every field, you can use this parameter to reduce the amount of data transferred.

For example, to only return data from `company` and `product_code`, send these two query parameters:

`fields%5B%5D=company&fields%5B%5D=product`

filterByFormula `string` optional
 A [formula](#) used to filter records. The formula will be evaluated for each record, and if the result is not `0`, `false`, `" "`, `NaN`, `[]`, or `#Error!` the record

curl

JavaScript

 show API key

EXAMPLE REQUEST

```
curl "https://api.airtable.com/v0/appKIU... /Product?maxRecords=3&view=Grid%20view" \
-H "Authorization: Bearer keyc..."
```

EXAMPLE RESPONSE

```
{
  "records": [
    {
      "id": "recWGzG022M70maQi",
      "fields": {
        "json": "http://maps.googleapis.com/maps/api/geocode/json?sensor=false&address=Groningsingel+147%2Carnhem%2Cthe+netherlands",
        "product_no": "5",
        "geocode2": "Groningsingel 147, arnhem, the netherlands",
        "company": "Phillips",
        "product_code": "radiot",
        "name": "p. jansen",
        "gender": "m",
        "Roll-up": [
          "recGl228JbfjomRCV"
        ]
      }
    }
  ]
}
```



Meituan API Endpoints Example

<https://developer.meituan.com/ka/docs/wmapi-1>

到餐API文档

> 团购API

> 茶饮版 API

智能版 API

门店-获取营业日起...

获取授权资源ID列表

门店-获取物品（分...

总部-获取物品（分...

门店-获取物品类别...

总部-获取物品类别...

门店-获取供应商（...

总部-获取供应商（...

门店-获取物品单位...

总部-获取物品单位 ...

HTTP请求示例

```
(提示: 实际请求需要进行 urlencode 编码)
POST /rms/base/v1/auth/resources/get HTTP/1.1
Host: api-open-cater.meituan.com
Content-Type: application/x-www-form-urlencoded; charset=utf-8

appAuthToken=qwe&
timestamp=123&
sign=sdsadfsfd&
charset=utf-8&
developerId=100&
version=1&
biz={}
```

REQUEST

响应示例

Json示例

```
{
  "code": "OP_SUCCESS",
  "msg": "成功",
  "traceId": 123,
  "data": {
    "resources": {
      "orgType": "1 总部, 5 门店",
      "rootOrgId": 123,
      "orgId": 123
    }
  }
}
```

RESPONSE

评价管理

外卖门店在延迟发配送名单内才能设置延迟时间

活动管理

订单管理

订单推送

取消订单推送

退款信息推送

图片上传

门店装修

安心卡

在线联系IM

接口code码集合

> 到餐API文档

> 茶饮版 API

API接口	接口描述
poi/save	创建或更新门店信息
poi/getids	获取门店ID
poi/mget	批量获取门店详细信息
poi/close	门店设置为休息状态
poi/online	门店设置为上线状态
poi/updatepromoteinfo	更改门店公告信息
poiTag/list	获取门店品类列表
shippingtime/update	更新门店营业时间
poi/logistics/isDelayPush	查询门店是否延迟发配送
poi/logistics/setDelayPush	设置门店延迟发配送时间



Organization and governance

Successful API development requires cross-functional decision-making and oversight. Traditionally, IT departments have developed APIs with little or no input from other functions within the organization. Proactive API-centric organizations generally engage individuals from the relevant lines of business in the API development cycle to provide needed guidance around the right level of desired functionality and customer experience.

These organizations also involve their procurement and legal departments in monitoring intellectual property, developing SLAs and contracting. Marketing professionals play an important role in addressing the branding and promotion of APIs, and focusing on the attraction and recruitment of partners and external developers. Risk managers evaluate potential impacts of security breaches as well as unintended use of the APIs by legitimate parties.



Skills and capabilities

The API economy has implications for both an organization's skills and cultural mindset. An API-centric business requires new capabilities, including product management, data science and intellectual property management, as well as a culture that stresses innovation and resource reuse. For example, the product management skills needed to oversee the entire lifecycle of API management are often different from the technical capabilities needed to architect and code the actual APIs themselves.

One way organizations have set out to address these issues is the use of innovation teams centered on creating an API-centric transformation. These businesses create physical and virtual spaces that bring together architects, developers, product managers and business leaders to rapidly exchange ideas and interact with one another. They provide education on API development, develop use-case opportunities, and leverage internal and external collaborative events to promote API value and usage.

APIs drive digital transformation⁴

International Airlines Group (IAG), one of the world's largest airline groups, needed to transform itself into an agile, digital organization. The company was facing competitive investments in innovation and digital technologies, as well as fear of disruption from a potential "uberization" of the airline industry. IAG set up a digital business team to oversee a digital transformation and connectivity program, with APIs as the underlying driver.

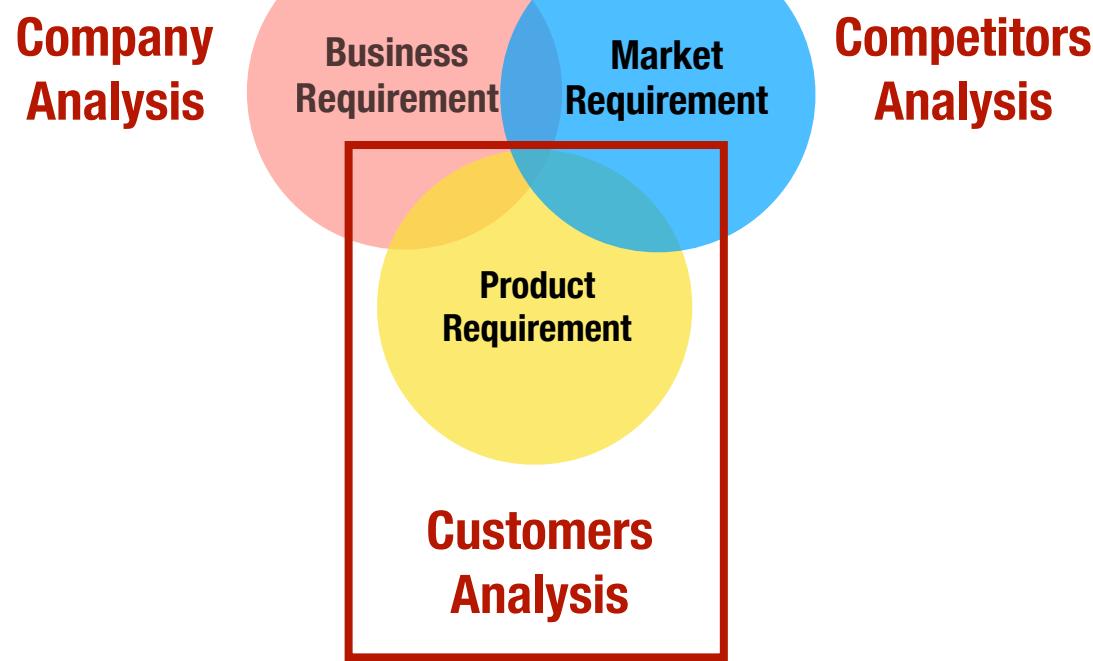
This resulted in closer collaboration between the business and IT functions, connecting operations from the front- to the back-office via APIs and reducing much of the complexity caused by disjointed silos. The airline began a "Connectivity Program" to extend the digital mindset across the company, with a focus on timesaving techniques and tools to help airline crews do their jobs.

Implications for PM

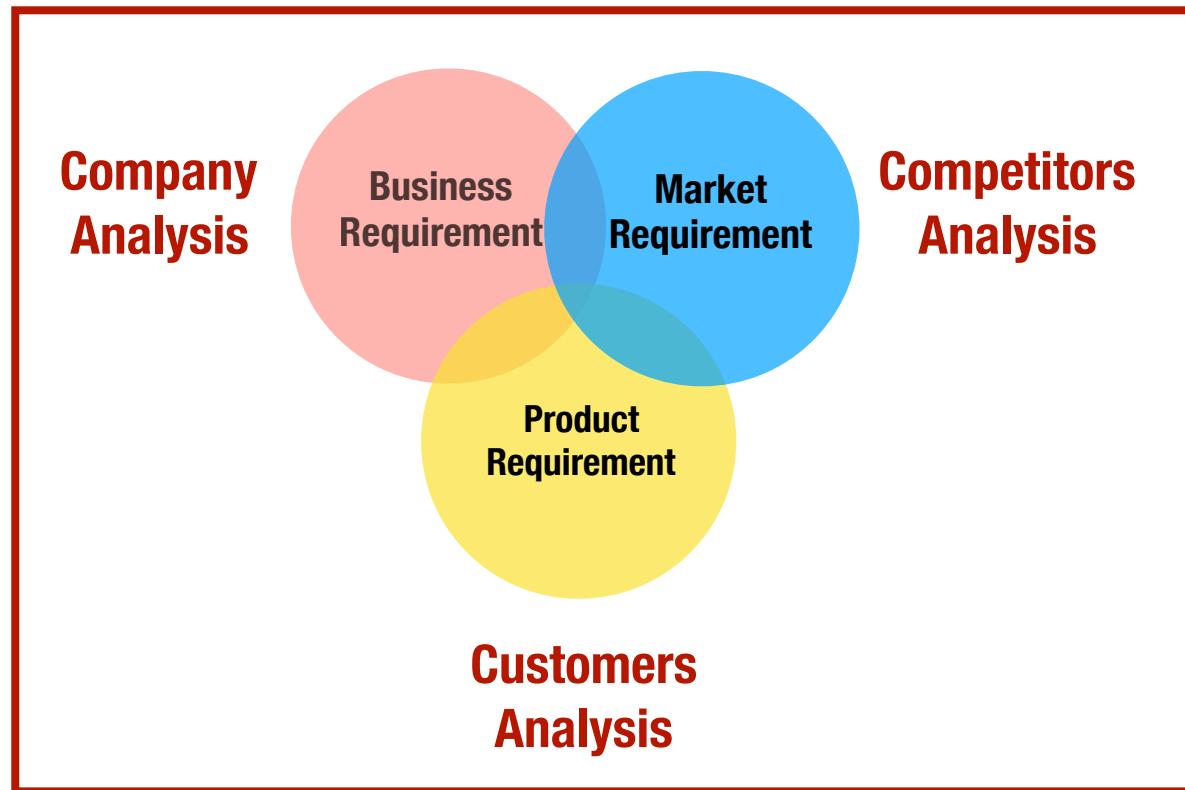
1. Which product features should be implemented internally and which should be provided externally through API micro-service providers?
2. Should one also provide API-based micro-services to one's business partners?
3. What data and functionalities should be opened to external parties?
4. How does the API features being considered together with one's cloud and overall product/platform strategies?

From COM5961 to COM5940

Requirement Analysis



Requirement Analysis



Comparison Between COM5961 and COM5940

	COM5961	COM5940
Competency	Individual mastery	Team project management
Methodology Process	Design Thinking/ UX Evaluation	Lean Canvas/Agile Product Development/Growth Hacking
CRISP-DM Development	Web/Mobile Dataviz and Prototyping	Cloud and API Services/ Machine Learning Models
Requirement Analysis	Product	Market, Product, Business
Front-end/ Back-end	Front-end/ HTML/CSS/JS	Back-end/ PHP/Python/MySQL
Application Focus	Content Acquisition/ Management	Community Formation/E-Commerce/KOL-Commerce

THANK YOU FOR YOUR TIME!