



# **COM5940 NEW MEDIA BUSINESS MODEL & INNOVATION:**

## **LESSON 2 - NO-CODE/LOW-CODE APP DEVELOPMENT**

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Center for Entrepreneurship  
Chinese University of Hong Kong

# **Today's Agenda**

- 1. Overview of no-code/low-code app development.**
- 2. Front-end Development Using Bravo Studio and Monaca.**
- 3. Low-code database and app development in Airtable.**
- 4. Perform SQL-like operations in Airtable without coding.**
- 5. Secure team collaboration in Airtable for project management.**

# **Low-code/No-code Tools for Speeding Up Market Validation**



Forbes

# The Low-Code/No-Code Movement: More Disruptive Than You Realize



Jason Bloomberg Former Contributor ⓘ

Enterprise & Cloud

*I write and consult on digital transformation in the enterprise.*

Follow

⌚ This article is more than 4 years old.

- f The burgeoning Low-Code/No-Code space has become an extraordinarily disruptive page in the enterprise digital story, leading to extensive confusion among enterprises and vendors alike.
- tw
- in The big analyst firms aren't much help: **Gartner** calls it High-Productivity Application Platform-as-a-Service, while Forrester divides the world into Low-Code Development and Mobile Low-Code Development – merely adding to the confusion.

But even the Low-Code and No-Code terminology itself is misleading, as the distinction isn't about whether people need to code or not. The distinction is more

Source:<https://www.forbes.com/sites/jasonbloomberg/2017/07/20/the-low-codeno-code-movement-more-disruptive-than-you-realize/?sh=53ea944d722a>



# Low Code Revolution

Charles Lamanna  
Corporate Vice President  
Microsoft  
 @clamanna



Home > Software Development > No-Code and Low-Code

## Airtable review: Flexible low-code/no-code in the cloud

Airtable is a powerful combination of relational database capabilities, a variety of development environments for different skill levels, and hundreds of templates and add-ins for common use cases.



By **Martin Heller**

Contributing Editor, InfoWorld | JAN 19, 2022 3:00 AM PST

<https://www.infoworld.com/article/3647212/airtable-review-flexible-low-code-no-code-in-the-cloud.html>



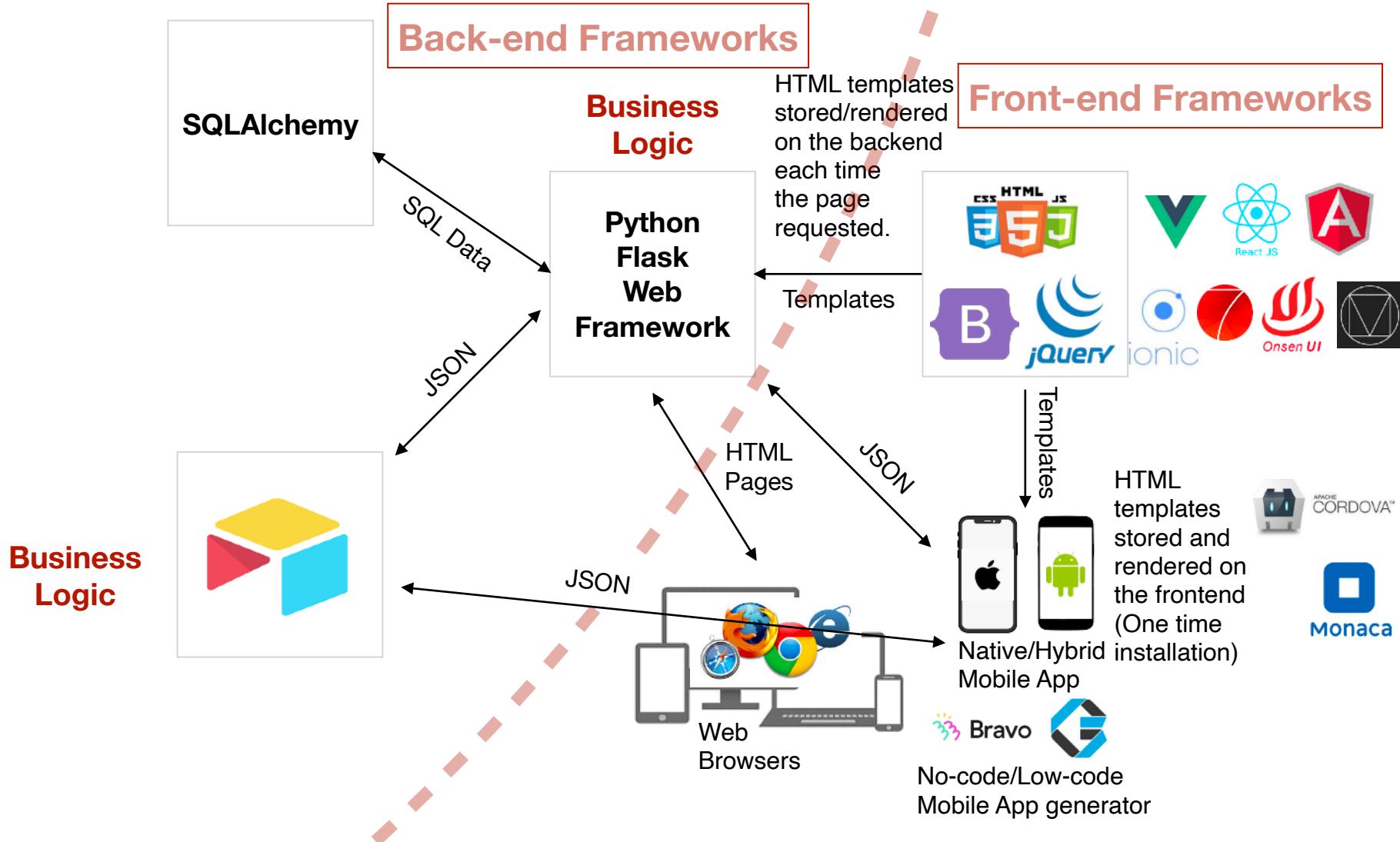
Stories

## Low-code/no-code: why it's the future, not a fad

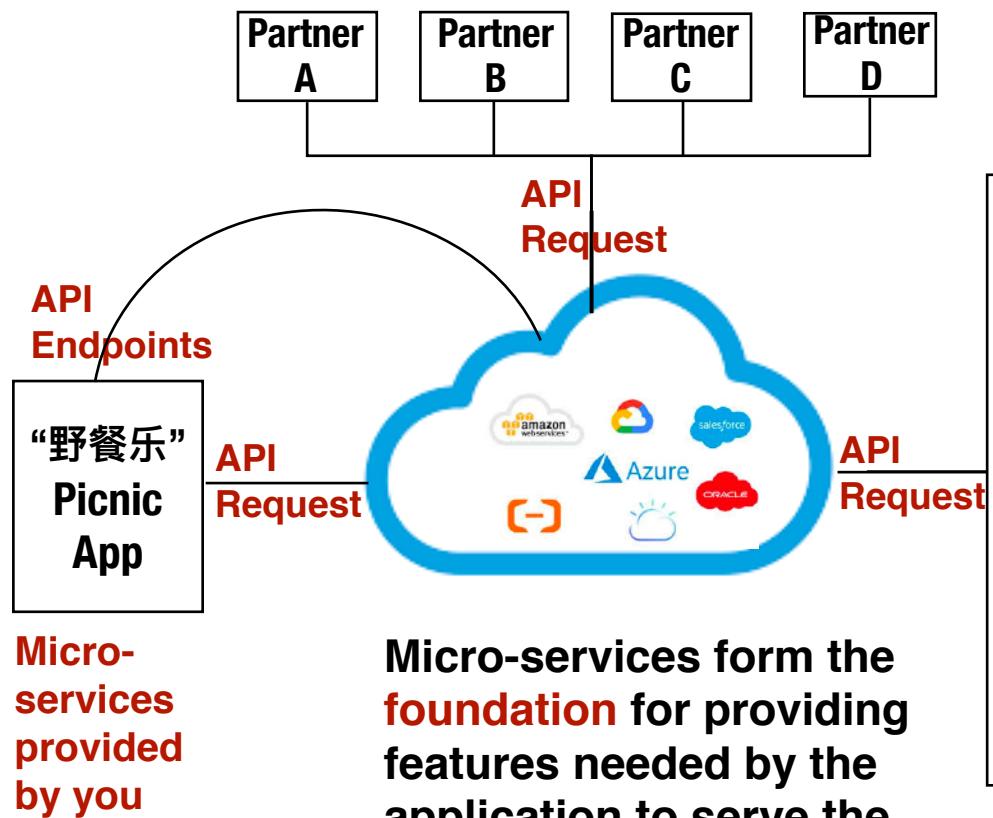
November 30, 2021

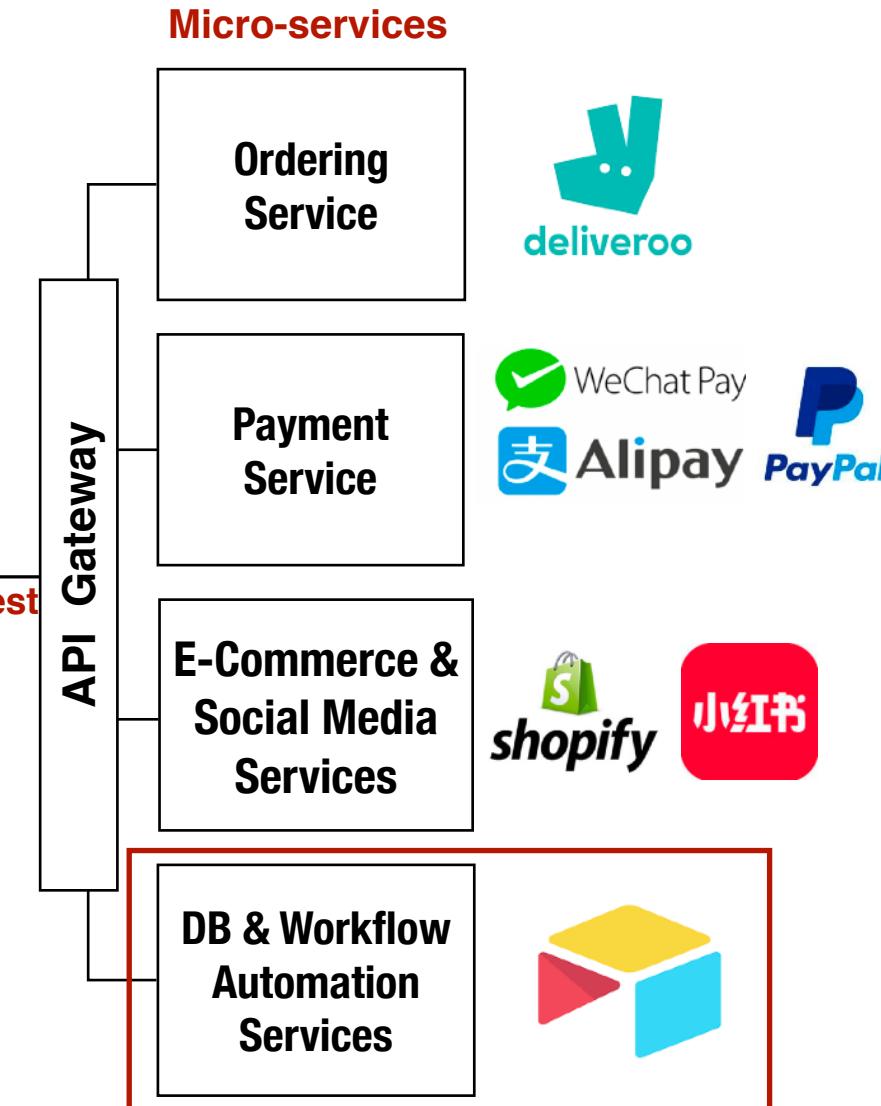
<https://blog.airtable.com/what-is-low-code/>



**Business partners requesting your services through API requests.**



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



**Bravo Studio**



Bravo

Product ▾

Resources ▾

Services ▾

Integrations

Pricing

Get started for free

Log in

# Build powerful no-code mobile apps faster.

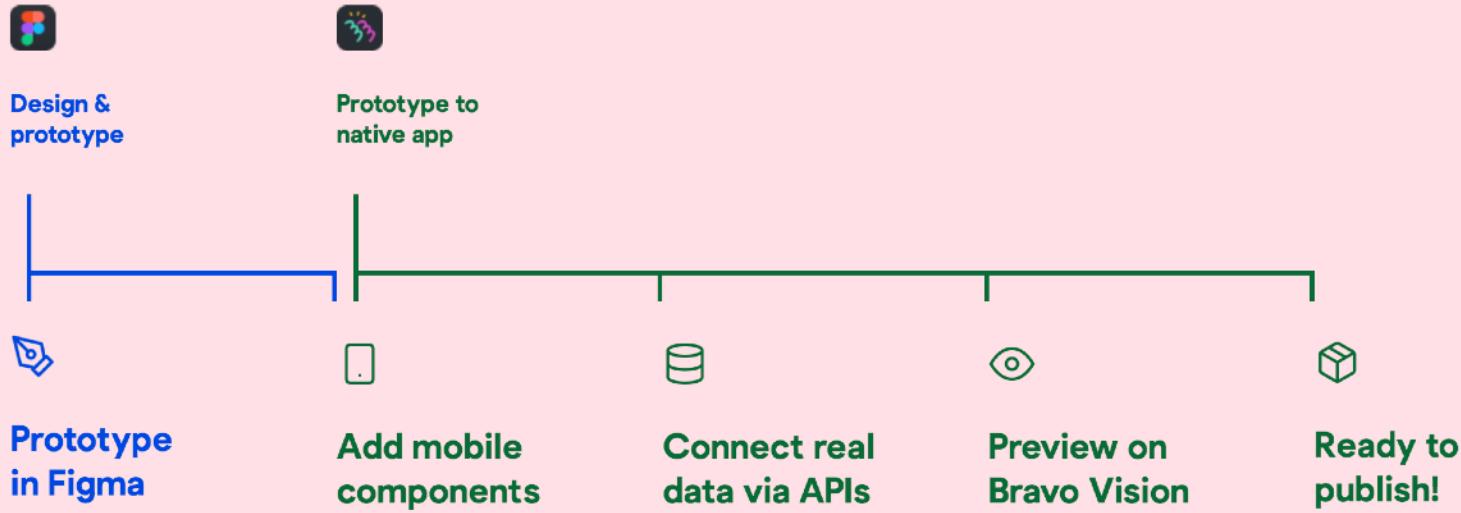
Make, manage and maintain fully native mobile apps for iOS and Android.

Develop fast, iterate fast, adapt forever.

Start building for free

How it works ►

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



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

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

## 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; ▾

?

The screenshot shows a web-based application builder interface for creating travel-related mobile or web applications. The top navigation bar includes tabs for 'Bravo Sample: Expeditions Guide' and 'Sample Bravo app kit \* Travel App'. Below the tabs are standard browser controls (back, forward, search, etc.) and a zoom level of 18%. The main content area is titled 'Sample Bravo app kit \* Travel App' and 'View only'. On the left, a sidebar lists several components with their respective labels: '# Menu [menu:slide]', '# Adventure list', '# Adventure detail', '# Featured activity', '# [asset:splash]', and '# [asset:icon]'. The '# [asset:icon]' item is highlighted with a red border. The main workspace contains several visual elements: a large yellow square with a blue and white airplane icon; a yellow rectangular card labeled 'TRAVEL THE WORLD'; a vertical menu card with sections like 'ASIA & PACIFIC', 'FEATURED TRIP', 'AFRICA', 'S. & CENTRAL AMERICA', 'HONEYMOON', 'ITINERARY', and 'FAVORITE LIST'; a card for 'BALI INDONESIA' showing 'TOP ADVENTURES' and an 'Activity Name' section; a card for a 'Featured Activity' with a photo of a beach and a detailed description; and a card for an 'Adventure' with a photo of a tropical landscape. The right side of the interface features an 'Inspect' and 'Export' panel, a 'CSS' dropdown, and a 'background' color picker set to '#E5E5E5'. A question mark icon is located in the bottom right corner.

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

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 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

T INDONESIA

T BALI

□ Rectangle

T Pick your adventure.

T Connected to an Airtable ...

T TOP ADVENTURES

# \*Activity card

# Adventure detail

# Featured activity

# [container:top-bar]

# [asset:splash]

Adventure detail

←

The interface shows a slide-in menu on the left with sections like 'Adventure list' and 'Section title'. It also includes a top bar component and a splash screen component. On the right, there's a detailed view of an activity titled 'ALI INDONESIA' with a yellow header, a large image of a tropical beach, and a card with 'Category' and '2 hrs'.

Inspect Export

# Menu [menu:slide]

Properties

Width 375px  
Height 812px  
Top -407px  
Left -680px

Colors Hex

FFFFFF

CSS

```
/* Menu [menu:slide] */  
  
position: relative;  
width: 375px;  
height: 812px;  
  
background: #FFFFFF; □
```



# Bravo Tags Master List

Copy and paste these tags into the **layer names** in your design file and see your app come to life with Bravo Vision.

 Learn how to use Bravo Tags

## Glossary

- Element = the app element created from the tag
- Bravo Tag = the tag itself
- Layer Type = the type of layer you can place this tag on
- Tag Type = Bravo categorization of the tag

 Keyboard shortcut to open or close all toggles

`cmd/ctrl + option/alt + t`

▼  Menus

 Default View

<https://bravostudio.notion.site/Bravo-Tags-Master-List-145bec845f0b4afaa9e3bb8321b218a8>



Bravo

Projects

Data Library

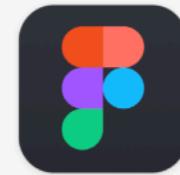
Sample apps

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



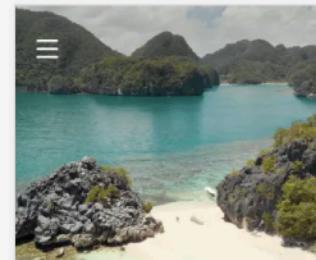
Category

2 hrs

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.*



CALL ORGANIZER

4 hrs

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



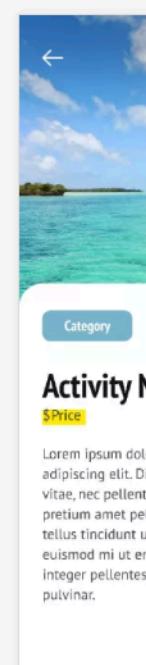
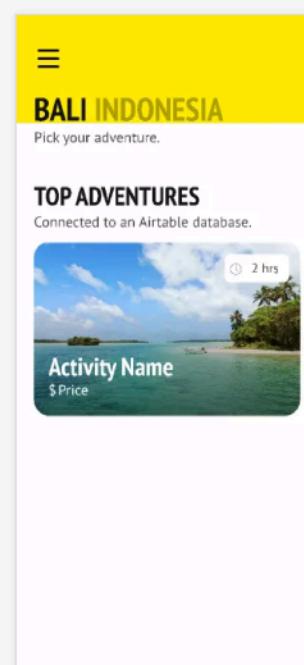
Sample Bravo app kit \* Travel App

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



GET IT ON  
Google Play

Download on the  
App Store



4 hrs

Visit from your device

[www.bravostudio.app/download-bravo-vision](http://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

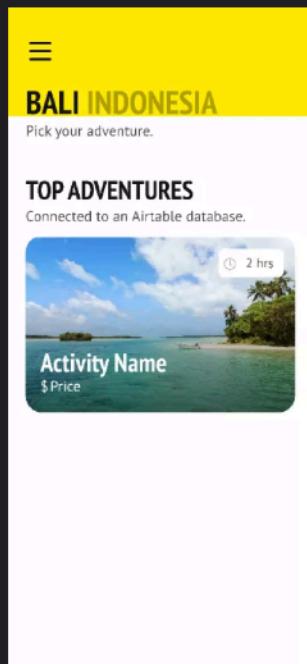
Bravo Tags List

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

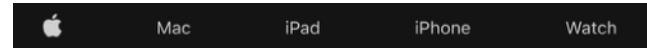
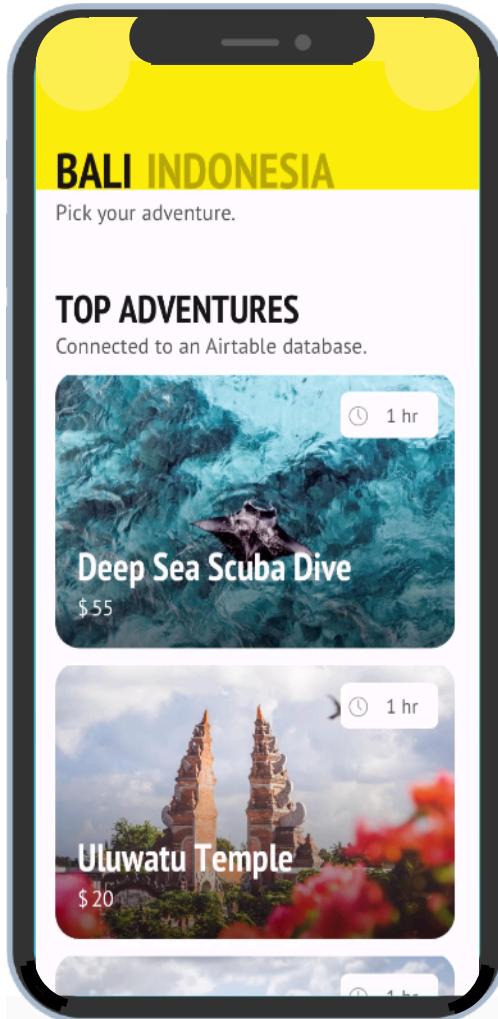
Content

T Text

GET Adventures - List

Length

Help



## App Store Preview



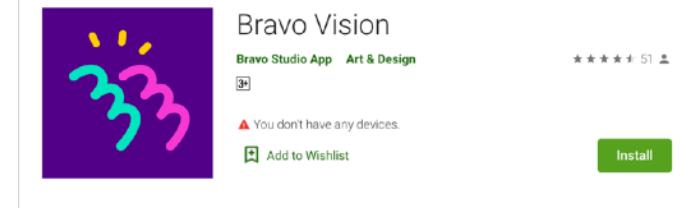
**Bravo Vision**

CodelessLabs

Designed for iPhone

4.7 • 20 Ratings

Free



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

**Try it out.**

## Tutorial: My first app in Bravo



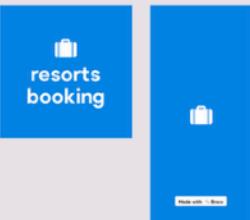
By Bravo Studio

4

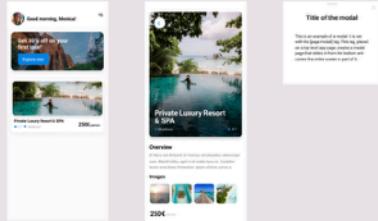
Get a copy 438



**Global assets**



**App pages**



Page: App pages ▼

23%

Share

This is a simple app made for the tutorial on Create your first app with Bravo. It contains a few screens and components that will **help you understand the very basics of Bravo and its power.**

Share

Check out the comments to learn more about Bravorizing!



Follow the tutorial: [Create your first app with Bravo](#)

<https://docs.bravostudio.app/get-started/create-your-first-app-with-bravo>

 Search... K

Get started with Bravo Studio

## GET STARTED

Navigating Bravo Studio &gt;

Bravo Vision previewer

Unlock power features to create interactive apps

Create your first app with Bravo

## SET UP YOUR DESIGN

What is bravORIZING?

Structuring the design: the layer hierarchy

The container &gt;

Bravo Tags: adding functionality to the UI elements

App navigation &gt;

Bravorizer (Bravo plugin for Figma)

Sample design files

Best Practices

Powered By GitBook

# Create your first app with Bravo

Copy link

## ON THIS PAGE

App assets

What is Bravo Studio

What we are going to bu...

The design

The backend

Binding

Preview your app

Live updates

Make it yours

The screenshot shows the Bravo Studio interface. On the left is the 'Home' screen, which includes a 'Good morning, Monica!' greeting, a promotional banner for a tour, and a thumbnail for a 'Private Luxury Resort & SPA' in the Maldives. On the right is the 'Trip detail' screen for the same resort, showing a large image of a person in a pool, the resort's name, location, rating, and price information.

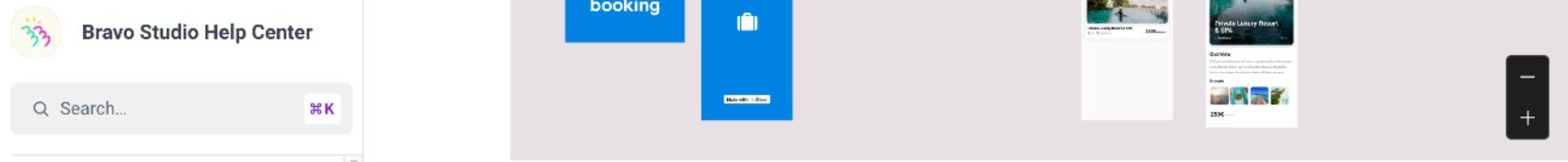
In this tutorial, you will learn how to create your first app with Bravo Studio. We will use Figma for the design and Airtable for the backend.

First, [create an account](#) in each tool if you don't have one yet:

- [Sign up for free in Figma](#)
- [Sign up for free in Airtable](#)

[App assets](#)

<https://docs.bravostudio.app/get-started/create-your-first-app-with-bravo>



Get started with Bravo Studio 🎉

#### GET STARTED

Navigating Bravo Studio >

Bravo Vision previewer

Unlock power features to create interactive apps

Create your first app with Bravo

#### SET UP YOUR DESIGN

What is bravorizing?

Structuring the design: the layer hierarchy

The container >

Bravo Tags: adding functionality to the UI elements

App navigation >

Bravorizer (Bravo plugin for Figma)

Sample design files

Best Practices

Tutorial: My first app in Bravo Edited 5 months ago

Click the link to download.

#### Airtable (the backend)

The screenshot shows an Airtable base titled "Resorts". The table has columns: Name, Overview, Images, Country, and Rating. There are 8 records listed:

Name	Overview	Images	Country	Rating
Hotel Bellevue Dubrovnik	Et libero sed dictumst ut r...		Croatia	4.7
Cali Mykonos Luxury Res...	Et libero sed dictumst ut r...		Greece	4.9
Palazzo di Varignana Res...	Et libero sed dictumst ut r...		Italy	5
White Sands Beach Club	Et libero sed dictumst ut r...		Spain	4.7
AYANA Komodo Resort	Et libero sed dictumst ut r...		Indonesia	4.8
Le Taha'a by Pearl Resorts	Et libero sed dictumst ut r...		Tahiti	4.9
Santhiya Koh Yao Yai Res...	Et libero sed dictumst ut r...		Thailand	4.8

8 records

Airtable

Copy base

View larger version

Click the link to download.

Tutorial: My first app in Bravo

Data Automations Interfaces

Resorts Discount Users Visibility +

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

	Name	Overview	Images	Country	Rating	Price
1	Private Luxury Resort & S...	Et libero sed dictumst ut r...	    	Maldives	4.8	299€
2	Hotel Bellevue Dubrovnik	Et libero sed dictumst ut r...	    	Croatia	4.7	350€
3	Cali Mykonos Luxury Res...	Et libero sed dictumst ut r...	    	Greece	4.9	430€
4	Palazzo di Varignana Res...	Et libero sed dictumst ut r...	    	Italy	5	250€
5	White Sands Beach Club	Et libero sed dictumst ut r...	    	Spain	4.7	650€
6	AYANA Komodo Resort	Et libero sed dictumst ut r...	    	Indonesia	4.8	460€
7	Le Taha'a by Pearl Resorts	Et libero sed dictumst ut r...	    	Tahiti	4.9	390€
8	Santhiya Koh Yao Yai Res...	Et libero sed dictumst ut r...	    	Thailand	4.8	700€

Create...

Grid Form Calendar Gallery Kanban Timeline Gantt New section

+ Add... 8 records



<<



Bravo Sample: Expedition Journal app (Community)

Upgrade app



Screens

Integrations

Publish

Push Notifications

Apps

API Collections

Sample Apps

Learn Bravo

Help Center

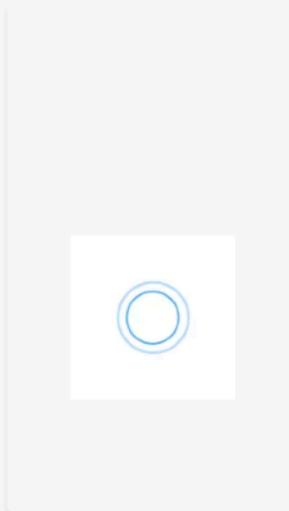
Feedback



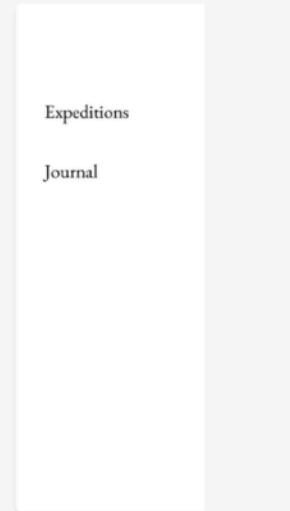
Upgrade now to access  
**power features** and  
white label apps.

Upgrade

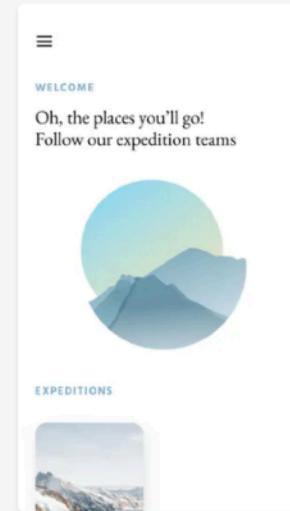
Logout



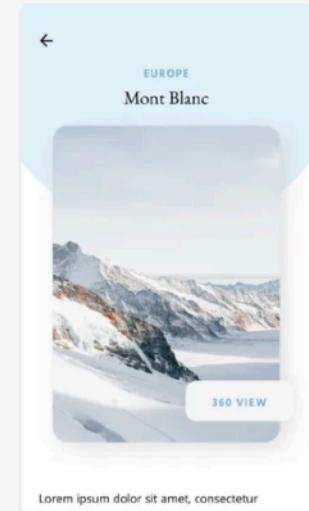
Loading  
12th Jan 2023 14:01



Menu  
12th Jan 2023 14:01



Home list  
12th Jan 2023 14:01



Place detail  
12th Jan 2023 14:01



360 VIEW



EXPEDITION JOURNAL



JOURNAL ENTRY





&lt;&lt;

Apps

API Collections

Sample Apps



Expeditions



https://airtable.com/shrNUQhjbqRGRQeR

🕒 4 days ago

Requests



Places - Detail

Search 4 requests

GET

Places - Detail

GET

Places - List

GET

Journal - Detail

GET

Journal - List

Request URL

GET ▾

https://api.airtable.com/v0/app5LfotepijV0azu/tbIrWmH6YNHSmRlez/\${id}



Headers

HTTP headers to send with your request

Authorization

Bearer keycj6dRwXwYLEjiv

Key

Please enter the key first

Received Data

Selected Data

Debug



Hit send to get a response

Learn Bravo

Help Center

Feedback



Upgrade now to access  
**power features** and  
white label apps.

Upgrade

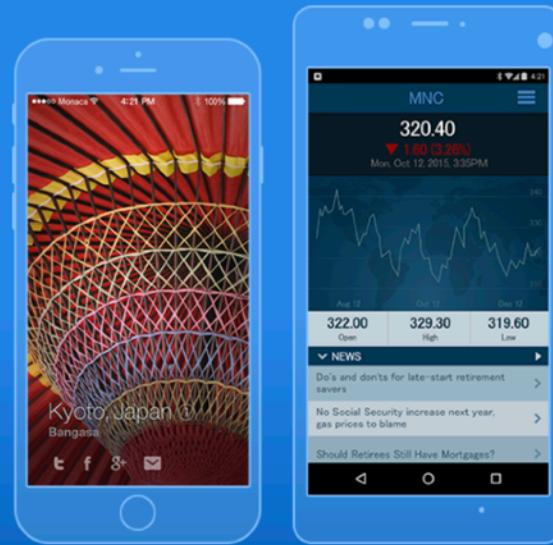
Logout



# **Monaca for Cordova**

# Mobile App Development Fast, Easy and Flexible.

Cross-platform hybrid mobile app development platform and tools in the cloud

[GET STARTED FREE](#)

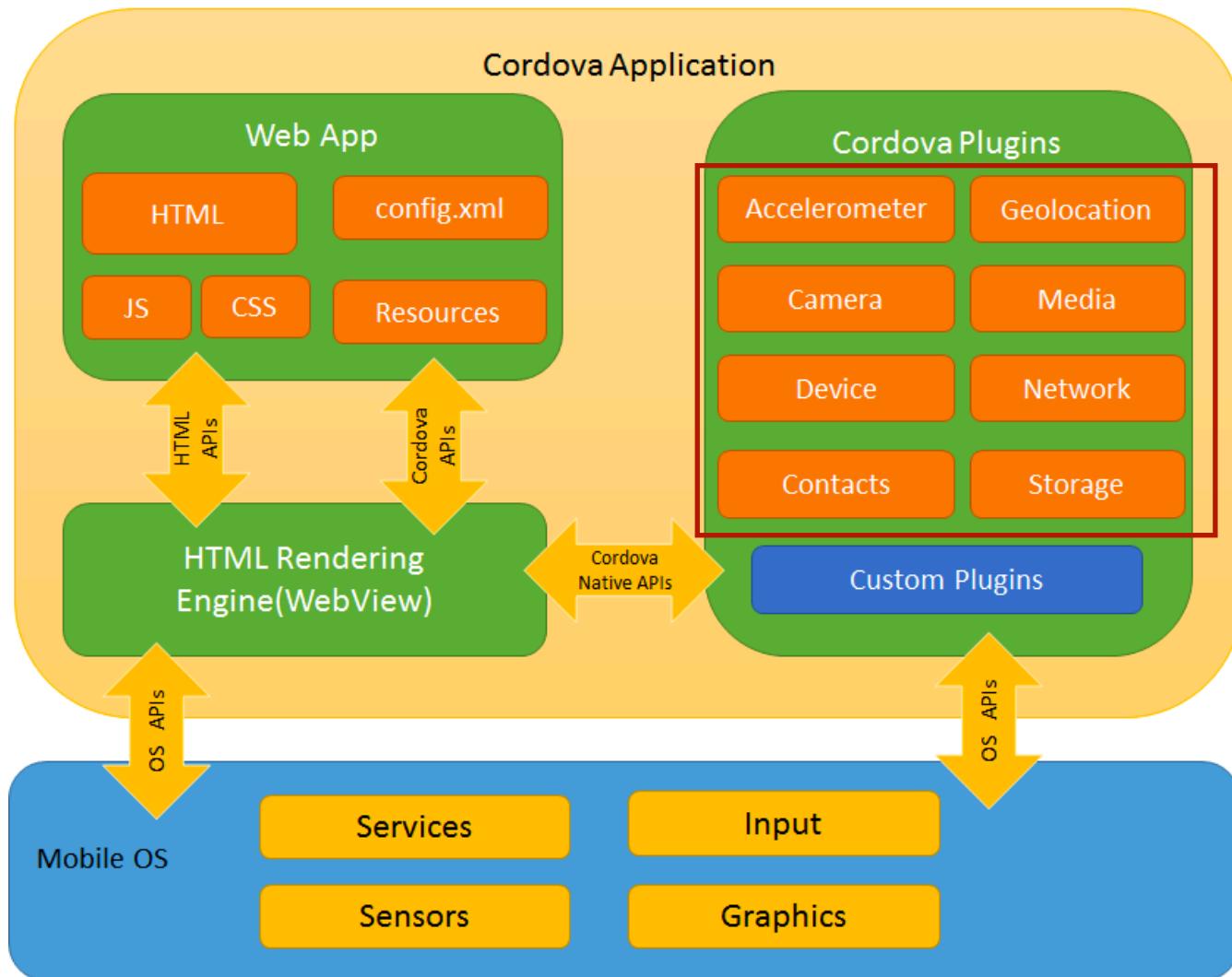
Monaca makes HTML5 hybrid mobile app development with [Apache Cordova](#) simple and easy. Monaca is the most open hybrid app development platform available and ready to be immediately plugged into your existing workflow and development environment. From Cloud IDE, CLI to debugger and remote online build, everything you need for your hybrid app development is here.

<https://monaca.io>

# Mobile App Bridge



Source: <https://www.udemy.com/course/learn-to-build-your-first-apache-cordova-app/>



# Pricing

Individual use		Recommended for team use	
FREE	PRO	BUSINESS	ENTERPRISE
<b>Free</b>	<b>\$22/mo</b> or Annually: \$220	<b>\$55/mo</b> + Base usage: \$22/mo/team or Annually: \$550+\$220	<b>\$110/mo</b> + Base usage: \$550/mo/org or Annually: \$1,100+\$5,500
<p>Cloud IDE Debugging tool 3 projects 3 remote builds/24hrs Online Community Support</p> <p>Compare in Detail</p>	<p>All of the Free features + Enhanced Cloud IDE (Cloud IDE + Integrated terminal) Local development (CLI, LocalKit) Custom Cordova plugins 10 projects Unlimited remote builds</p> <p>Compare in Detail</p>	<p>All of the Pro features + Enterprise plugins Account management Project sharing 100 projects Technical support ticket</p> <p>Compare in Detail</p>	<p>All features! + Unlimited use of Enterprise plugins On-premise deployment options Customized support Minimum purchase of 5 licenses required</p> <p>Compare in Detail</p>

Start a 14 day Free Trial

## Compare in detail

Price · settlement method	Personal plan		Corporate Plan	
	Free plan	Pro plan	Business plan	Enterprise plan
2 week free trial		✓	✓ eliminations of build while in Trial period	
1 month License	Free	\$22	\$77	\$1,100
6 month License	Free		\$423.50	\$6,050
1 year License	Free	\$220	\$770	\$11,000
Developer license			1 @5 while in Trial period	5
Additional Developer License (1 month)			\$55	\$110
pay by a credit card		✓	✓	
Invoice payment			✓ @5 months or 1 year license only	✓



## Monaca

- Release Notes and Updates >
- Product Guides >
- Tutorials >
- API Reference >
- Samples & Tips >
- Features >
- FAQ >
- Supported Environments
- Monaca Product Website 
- 日本語 



# Monaca

Monaca is a mobile app development platform. You can develop iOS and Android apps using the web technologies JavaScript and HTML.

We provide various development tools, web services, and technical support so that anyone can easily develop mobile applications. So far, it has been used in more than 200 countries and more than 100,000 apps have been created.

 Copy link

## CONTENTS

- Start app development in the cloud
- Start app development locally
- FAQ

## Start app development in the cloud

Access Monaca from your web browser and start developing. You can learn the flow of application development in the following tutorial.



Monaca Cloud IDE Tutorial

## Start app development locally

By using Monaca's local development tools "Monaca Localkit" and "Monaca CLI", you can start application development using the local development environment (editor and version control tool) that you are familiar with.





Monaca

Release Notes and Updates &gt;

Product Guides &gt;

Tutorials &gt;

Monaca Cloud IDE Tutorial &gt;

Part 1: Starting a Project

Part 2: Running Monaca Debugger with Monaca Cloud IDE

Part 3: Building a Monaca App

Part 4: Publishing a Monaca App

Part 5: Setting up the Monaca Backend

Monaca Localkit Tutorial &gt;

Monaca CLI Tutorial &gt;

Electron Tutorial &gt;

Cordova SQLite Storage Plugin

Cordova Google Analytics Plugin

Cordova Firebase Plugin

 Powered By GitBook  
Cordova AppVersion Plugin

# Part 2: Running Monaca Debugger with Monaca Cloud IDE

[Copy link](#)

## CONTENTS

[Before getting started](#)[Step 1: Running a project on the Monaca...](#)[Step 2: Real time updates between th...](#)

[Monaca Debugger](#) is a powerful application for testing and debugging your Monaca applications on real devices in real time.

When developing Monaca apps in the Cloud IDE, all changes made to your project files will be reflected in your Monaca Debugger as soon as you save your changes.

## Before getting started

Install Monaca Debugger on your device.



Please refer to [Monaca Debugger installation](#) for other platforms.

## Step 1: Running a project on the Monaca Debugger

1. Launch the Monaca Debugger app and sign in with your Monaca account. Make sure that you are using the same account as for the Monaca Cloud IDE.

[https://en.docs.monaca.io/tutorials/monaca\\_ide/testing\\_debugging](https://en.docs.monaca.io/tutorials/monaca_ide/testing_debugging)

Monaca

File Edit View Run Build Project Configure Help

Hello Monaca!

index.html phonegap-demo.html

res www components monaca-cordova... monaca-core-utils loader.css loader.js css phonegap-demo main.js master.css index.html phonegap-demo.html

.gitignore .monacaignore config.xml LICENSE package.json

Running monaca preview on port 8080

> monaca-template-helloworld@2.4.0 monaca preview

> npm run dev

> monaca-template-helloworld@2.4.0 dev

> browser-sync start -s www/ --watch -

[Browsersync] Access URLs:

Local: <http://localhost:8080>  
External: <http://172.29.0.74:8080>

UI: <http://localhost:8081>  
UI External: <http://localhost:8081>

[Browsersync] Serving files from: www/  
[Browsersync] Watching files...  
[Browsersync] Couldn't open browser (if you are using BrowserSync in a headless environment, you might want to set the open option to false)  
[Browsersync] Reloading Browsers... (buffered 3 events)  
[Browsersync] Reloading Browsers... (buffered 3 events)

Monaca Debugger

Monaca Debugger

Monaca Debugger provides you the ability to test your app on your device without building the project each time. See [Monaca documentation](#) for more details.

Use Preview for Quicker Access

Our Preview is a convenient tool for checking the application without an actual mobile device.

Installing Monaca Debugger

Monaca Debugger is available for each platform. Please click the icon to continue.

Android iOS

Close

iPhone 8 iPhone 8 (750x1334)

Welcome to Cordova! this file is located at phonegap-demo.html

Platform: , Version: , UUID: , Name: , Width: , Height: , Color Depth: Get Location

Visit CUHK Vibrate Get a Picture Check Network

Monaca

File Edit View Run Build Project Configure Help

Hello Monaca!

index.html phonegap-demo.html

res

www

components

- monaca-cordova...
- monaca-core-utils
- loader.css
- loader.js

css

phonegap-demo

- main.js
- master.css

index.html

phonegap-demo.html

.gitignore

.monacignore

config.xml

LICENSE

package.json

Running monaca preview on port 8080

```
> monaca-template-helloworld@2.4.0 monaca
> npm run dev
```

```
> monaca-template-helloworld@2.4.0 dev /project
> browser-sync start -s www/ --watch --port 8080 --ui-port 8081
```

[Browsersync] Access URLs:

```
-----  
Local: http://localhost:8080  
External: http://172.29.0.74:8080  
-----  
UI: http://localhost:8081  
UI External: http://localhost:8081
```

[Browsersync] Serving files from: www/  
[Browsersync] Watching files...  
[Browsersync] Couldn't open browser (if you are using BrowserSync in a headless environment, you might want to set the open option to false)  
[Browsersync] Reloading Browsers... (buffered 3 events)  
[Browsersync] Reloading Browsers... (buffered 3 events)

Monaca Debugger

## Monaca Debugger for iOS

Get Monaca Debugger in the App Store or by building your own.

**Get from the App Store**

Latest Version: 10.0.3

You can connect your device to the Cloud IDE and Monaca local development tools. All core Cordova plugins are included. Does not support USB debugging under local development. [See details.](#)

**Build and Install**

Latest Version: 10.0.0

Custom built debugger will include third-party Cordova plugins that have been added to the project. Provides [USB debugging](#) under local development. [See details.](#)

iPhone 8 (750x1334)

it CUHK</a>

Welcome to Cordova!  
this file is located at phonegap-demo.html

Platform: , Version:  
UUID: , Name:  
Width: , Height: , Color Depth:

Get Location

Visit CUHK

Vibrate

Get a Picture

Check Network

Monaca

File Edit View Run Build Project Configure Help

Hello Monaca!

index.html phonegap-demo.html

res

www

components

- monaca-cordova...
- monaca-core-utils
- loader.css
- loader.js

css

phonegap-demo

- main.js
- master.css

index.html

phonegap-demo.html

.gitignore

.monacignore

config.xml

LICENSE

package.json

Running monaca preview on port 8080

```
> monaca-template-helloworld@2.4.0 monaca:preview /project
> npm run dev

> monaca-template-helloworld@2.4.0 dev /project
> browser-sync start -s www/ --watch --port 8080 --ui-port 8081

[Browsersync] Access URLs:
-----
  Local: http://localhost:8080
  External: http://172.29.0.74:8080
-----
  UI: http://localhost:8081
  UI External: http://localhost:8081
-----
[Browsersync] Serving files from: www/
[Browsersync] Watching files...
[Browsersync] Couldn't open browser (if you are using BrowserSync in a headless environment, you might want to set the open option to false)
[Browsersync] Reloading Browsers... (buffered 3 events)
[Browsersync] Reloading Browsers... (buffered 3 events)
```

Monaca Debugger

## Monaca Debugger for Android

Get Monaca Debugger in the Google Play Store or by building your own.

 Get it on Google Play  
Latest Version: undefined

You can connect your device to the Cloud IDE and Monaca local development tools. All core Cordova plugins are included. [See details.](#)

 Build and Install  
Latest Version: 10.0.0

Custom built debugger will include third-party Cordova plugins that have been added to the project. [See details.](#)

Back

iPhone 8 x iPhone 8 (750x1334)

Welcome to Cordova!

this file is located at phonegap-demo.html

Platform: , Version: ,  
UUID: , Name: ,  
Width: , Height: , Color Depth: ,

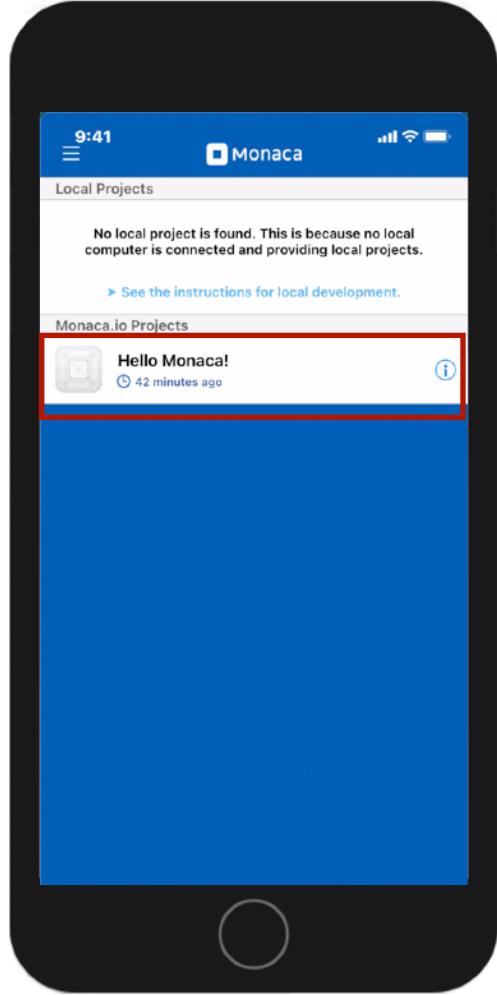
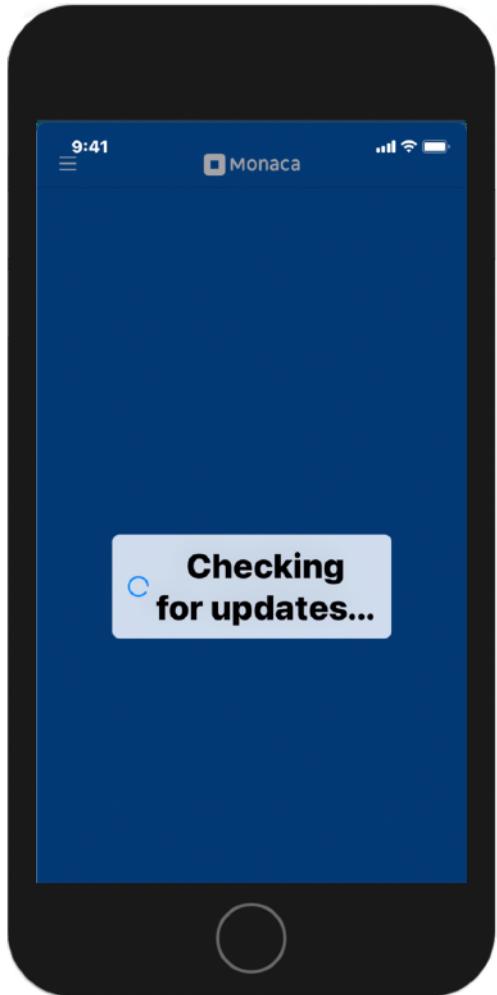
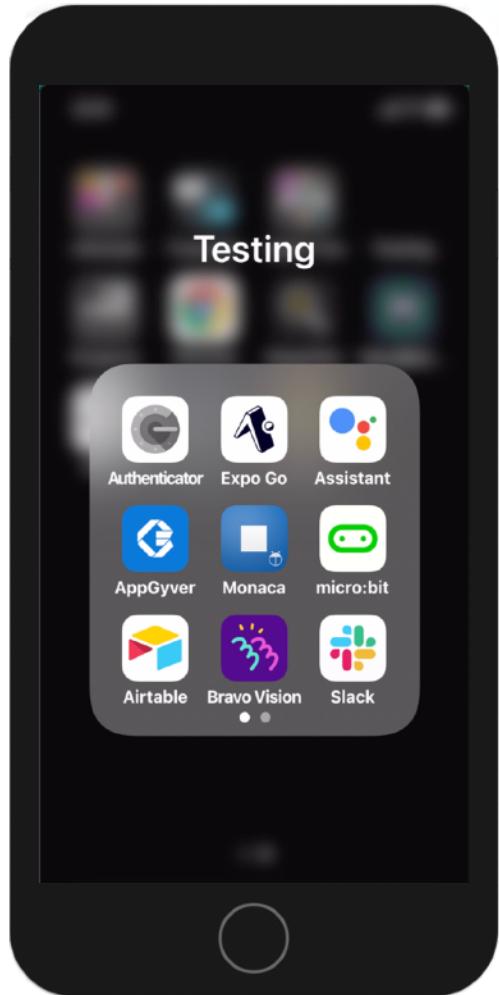
Get Location

Visit CUHK

Vibrate

Get a Picture

Check Network



[Learn & Discuss](#)[Contact Us](#)

Project(s) has been deleted.

## Monaca Dashboard

[Create New Project](#)[Import](#)

Tags



Sort by created



Hello Monaca!

No project description.



### OCR with Javascript

2022-01-20

Image Courtesy of RICOH Optical Character Recognition (OCR) is a widespread tech...



### Create Your First Machine Learning Mobile Application

2022-01-13

Image Courtesy of helpmykidlearn In this article, we will cover how to train the...



Classification



Object Detection

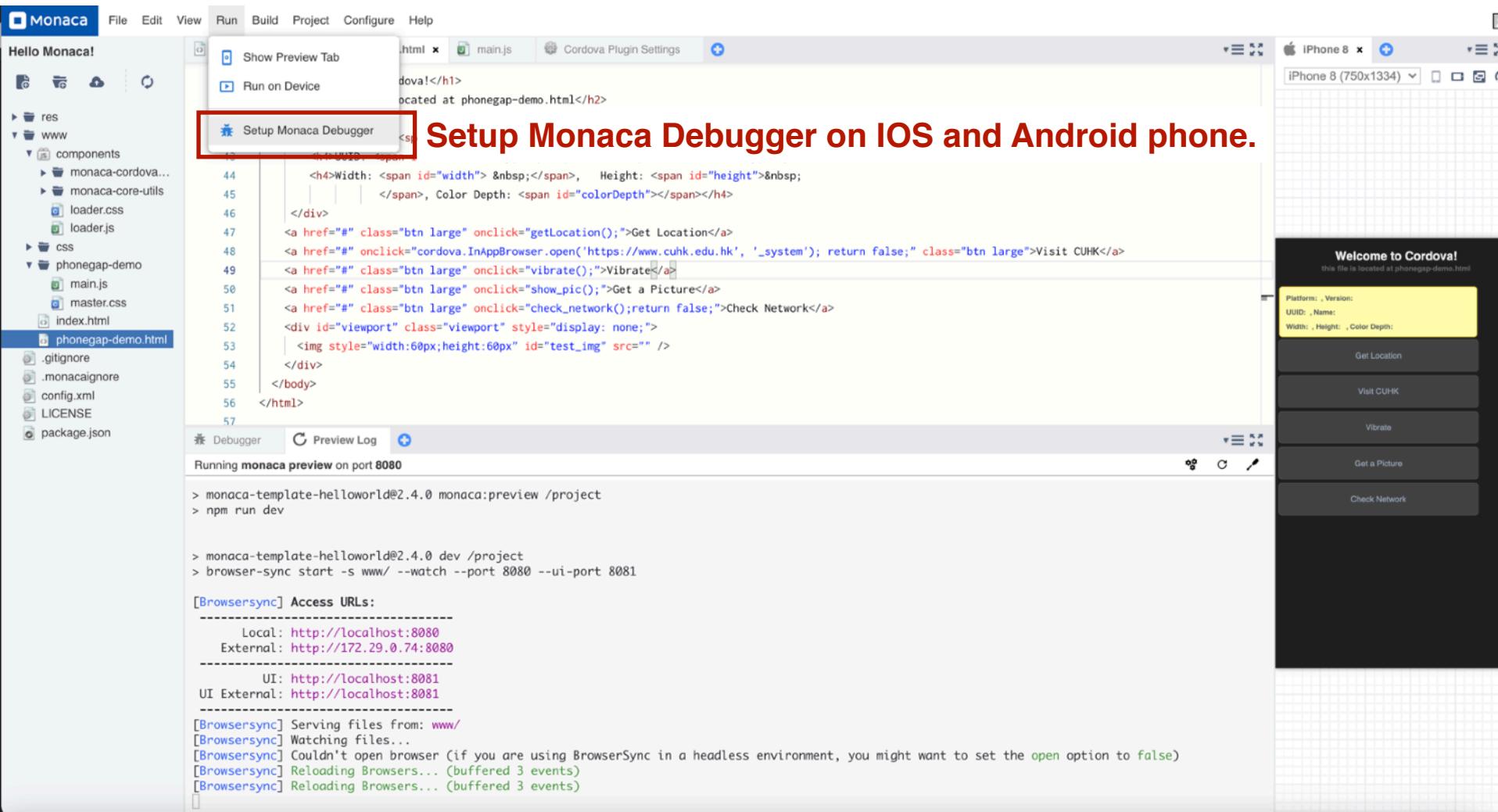


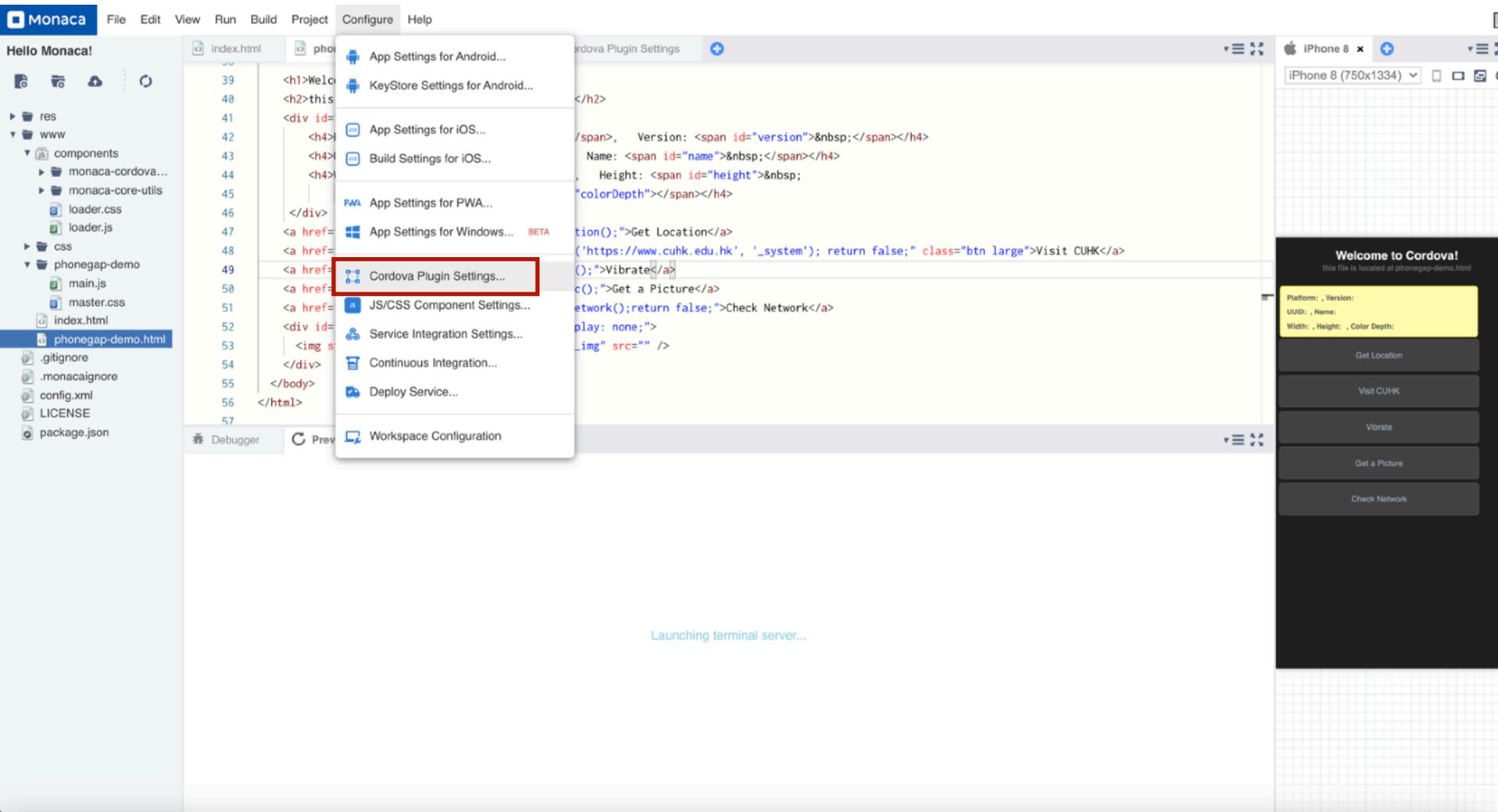
CAT, DOG, DUCK

### Object Detection with Javascript, the Easy Way!

2021-12-13

Image Courtesy of R-Bloggers If you are currently looking for an easy way to dev...





Monaca

File Edit View Run Build Project Configure Help

Hello Monaca!

index.html phonegap-demo.html main.js Cordova Plugin Settings +

res www components monaca-cordova... monaca-core-utils loader.css loader.js css phonegap-demo main.js master.css index.html phonegap-demo.html .gitignore .monacignore config.xml LICENSE package.json

Enabled Plugins

 Camera cordova-plugin-camera v5.0.1	 Device cordova-plugin-device v2.0.3	 Geolocation cordova-plugin-geolocation v4.0.2	 InAppBrowser cordova-plugin-inappbrowser v4.0.0	 Monaca Plugin monaca-plugin-monaca-core v3.3.1
 Network Information cordova-plugin-network-information	 Splashscreen cordova-plugin-splashscreen	 Vibration cordova-plugin-vibration	 Whitelist cordova-plugin-whitelist	

Debugger Preview Log +

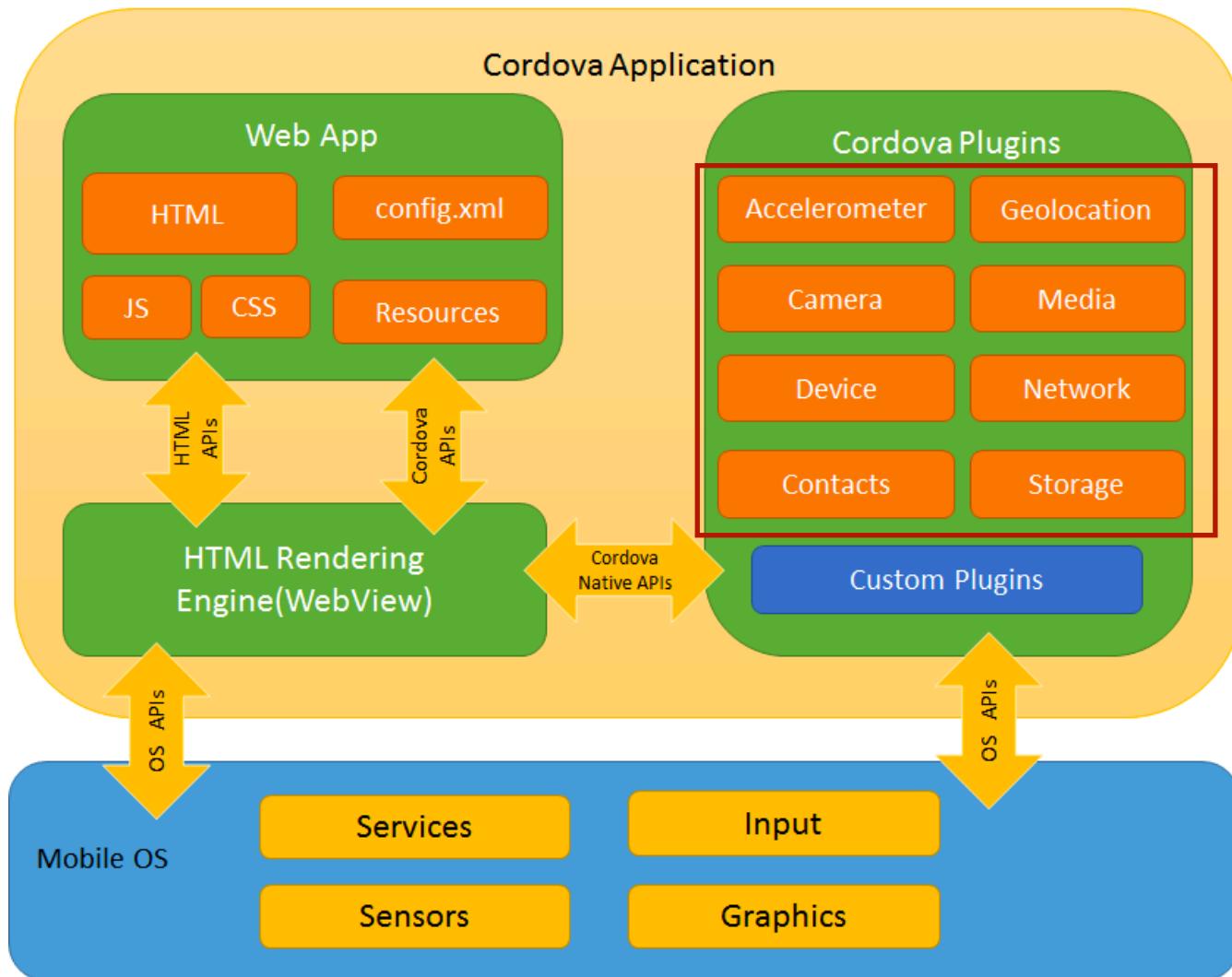
iPhone 8 iPhone 8 (750x1334)

Welcome to Cordova!  
this file is located at phonegap-demo.html

Platform: , Version:  
UUID: , Name:  
Width: , Height: , Color Depth:

Get Location  
Visit CUHK  
Vibrate  
Get a Picture  
Check Network

Launching terminal server...



Monaca

File Edit View Run Build Project Configure Help

Hello Monaca!

index.html x phonegap-demo.html main.js Cordova Plugin Settings +

res

www

components

- monaca-cordova...
- monaca-core-utils
- loader.css
- loader.js

css

phonegap-demo

- main.js
- master.css
- index.html
- phonegap-demo.html

.gitignore

.monacaignore

config.xml

LICENSE

package.json

Debugger Preview Log +

index.html

```
5 <meta name="viewport" content="width=device-width, height=device-height, initial-  
6 <meta http-equiv="Content-Security-Policy" content="default-src * data: gap: cont  
'unsafe-inline' 'unsafe-eval'">  
7 <script src="components/loader.js"></script>  
8 <link rel="stylesheet" href="components/loader.css">  
9 <link rel="stylesheet" href="css/style.css">  
10 <script>  
11     // PhoneGap event handler  
12     document.addEventListener("deviceready", onDeviceReady, false);  
13     function onDeviceReady() {  
14         console.log("PhoneGap is ready");  
15     }  
16 </script>  
17 </head>  
18 <body>  
19  
20     <h1>HelloWorld!</h1>  
21     <a class="button--large" href="phonegap-demo.html">Start Demo</a>  
22
```

Launching terminal server

iPhone 8 (750x1334) \*

Project Name: Hello Monaca!  
Description: No description.

Project Information  
Created At: 19 Jan 2022  
Last Updated At: 21 Jan 2022  
Target Cordova: 10.0.0  
Project Type: Cloud Project

Start Demo

Welcome to Cordova!  
this file is located at phonegap-demo.html

Platform: , Version:  
UUID: , Name:  
Width: , Height: , Color Depth:

Get Location

Visit CUHK

Vibrate

Get a Picture

Check Network

# **No-code/Low-code Development Steps**

1. Design database model (e.g. ER-Diagram) and implement it in SQLite or Airtable with test data and contents prepared.
2. Mock up front-end view in Figma and conduct usability tests to refine prototype.
3. Convert Figma prototype into no-code/low-code or website templates (e.g. Bravo, Appgyver, or HTML/CSS/JS).
4. Establish authentication and authorisation methods (Basic Auth and JWT) to enable membership scheme.
5. Connect model and view through API end-points controller (e.g. Back-end API provided by Flask or Airtable).

# **Airtable: A No-code/ Low-code Back-end**

Just released: new ways to connect your apps with shared data [Read blog post →](#)



Product > Solutions > Pricing Enterprise > Resources >

Contact sales

[Sign up for free](#)

Sign in

# Connect everything. Achieve anything.

Accelerate work and unlock potential with powerful apps that connect your data, workflows and teams. This is how.

[Sign up for free](#)



Source: <https://www.airtable.com>



## Create your free account

Work email

 hame@company.com

Continue

or

Continue with Single Sign On

 Continue with Google

Continue with Apple ID

By creating an account, you agree to the [Terms of Service](#) and [Privacy Policy](#).

Already have an account? [Sign in](#)

 Sign up today and try the Pro plan for free



## Create your free account

Full name

First and last

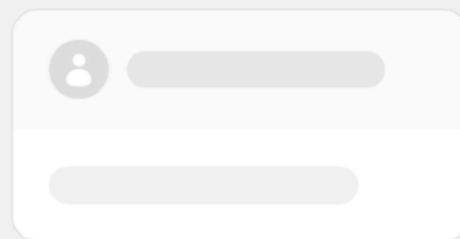
Invalid full name

Password

\*\*\*\*\*



Continue





## What team are you on?

This will help us personalize your experience in Airtable.

- Marketing
- Product & Design
- Engineering
  
- IT & Support
- Operations
- Sales & Account Mgmt.
  
- HR & Legal
- Creative Production
- Customer Service
  
- Finance
- Manufacturing
- Other / Personal



YSin Suen



Skip

Continue



## Who do you collaborate with?

Get more done with your team.

 coworker@hkdesign.org



 coworker@hkdesign.org

 coworker@hkdesign.org

 Invite link for users on @hkdesign.org

<https://airtable.com/invite/l?invitedId=invlaeLBsofaoy9P>

[Copy link](#)

Earn \$10 in credit per invite



YSin Suen

Skip

Continue



## Get up and running fast!

Make your data more powerful by moving it to Airtable.

- [Google Sheets](#)
- [Microsoft Excel](#)
- [CSV](#)
- [Paste table data](#)

Continue

SketchUp



YSin Suen



## Let's explore some projects.

Our most popular projects for Everyone ^

 Launch a new product	 Manage my content
 Create an org chart	 Track new applicants
 Track a project	 I'm not sure where to start



Continue



## Let's explore some projects.

Our most popular projects for Everyone ▾

- Launch a new product
- Manage my content
- Create an org chart
- Track new applicants
- Track a project
- I'm not sure where to start

Continue

The screenshot shows a mobile application interface for a "Project Tracker". At the top, there is a blue header bar with the title "Project Tracker". Below the header, there is a section titled "Project overview". The main area contains three cards representing different project status categories:

- Complete**: Shows a green "Status" card labeled "Complete" with a checkmark and a "Complete?" card with a green checkmark. It also includes fields for "DRI" and "Name".
- In progress**: Shows an orange "Status" card labeled "In progress" and a "Complete?" card with a question mark. It includes fields for "DRI" and "Name".
- Backlog**: Shows a yellow "Status" card labeled "Backlog" and a "Complete?" card with a question mark. It includes fields for "DRI" and "Name".

Each card has a blue plus sign at the bottom right corner.



## Great! Let's make it personal.

Some Projects I'd like to track are:

- 1 Updated sales process
- 2 Q4 product launch
- 3 New brand identity



← Back

Continue

## Project Tracker

Project overview

A Projects



- |   |                        |
|---|------------------------|
| 1 | Updated sales proce... |
| 2 | Q4 product launch      |
| 3 | New brand identity     |



## What would you like to track?

For each entry in Project overview, I'd like to track:

Complete?     Status     End date     Notes

DRI     Start date     Project docs

+ Add your own

Pick up to four now — you'll be able to add more later.

← Back    Continue

### Project Tracker

Project overview				
A	Projects	Status	End date	Complete?
1	Updated sales proce...	Complete	31 October 2022	✓
2	Q4 product launch	In progress	4 November 2022	
3	New brand identity	Backlog	8 November 2022	
+				



## We'll handle it, auto-magically.

Automations make it easy to put workflows on autopilot.

- Send a Slack message  
When a record is updated in Project overview, send a Slack message
- Send a weekly digest  
At 1:00 am Monday, email records where Status is Complete
- Create your own workflow later  
Set up your own automation in the future

You can turn on and edit your automations anytime.



Back

Continue

Project Tracker

A Projects	B Status	C End date	D Complete?	E Project
1 Updated sales proce...	Complete	31 October 2022	✓	
2 Q4 product launch	In progress	4 November 2022		
3 New brand identity	Backlog	8 November 2022		
+				



## See your data in a new way.

In addition to a grid, I'd also like to see my data as a:

Grid      Kanban

Calendar      Gallery

💡 With the **Single select** you added, Kanban is perfect for you.

← Back Continue

The screenshot shows a 'Project overview' board in Airtable's Kanban view. It features three columns: 'Complete' (green), 'In progress' (orange), and 'Backlog' (yellow). Each column contains a card for a project:

- Complete:** Updated sales p...
  - Status: Complete
  - End date: 31 October 2022
  - Complete?: ✓
  - Project docs: [red card]
- In progress:** Q4 product laun...
  - Status: In progress
  - End date: 4 November 2022
  - Complete?: ?
  - Project docs: [blue card]
- Backlog:** New brand iden...
  - Status: Backlog
  - End date: 8 November 2022
  - Complete?: ?
  - Project docs: [yellow card]

Each card has a blue '+' button at the bottom right.

Project Tracker Data Automations Interfaces

Saving... Help 14 days left on Pro Notifications Share

Project overview Add or import Views All projects Hide fields Filter Group Sort Color Share view Extensions Tools

Find a view All projects Project status

Project Tracker

All projects

Updated sales process

Q4 product launch

New brand identity

Create a view

Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

Create an interface

Record review Record summary Dashboard Blank

+ Add... 3 records

Airtable

## Experience all of Airtable with a 14-day trial of Pro

We've upgraded you to a free 14-day trial of the Pro plan. Try the full range of features on Airtable before deciding which plan is right for you.

At the end of your trial, we'll automatically move you to the Free plan unless you choose to upgrade.



Get started

Change your mind?

Import your work

Get started with Airtable right where you left off, with one of the following tools:

- Google Sheets
- Excel
- Paste data
- CSV / Other

or

Check out our templates

Looking for a head start? Our recommended templates will help build your base quickly.

Find another template

Recommended based on your team

- Project Tracker
- Content Calendar
- Product Catalog
- Event Planning
- Simple Project Tracker

See all templates

Restart from scratch

Need help? Check out our helpful resources.

**Project Tracker** | Data Automations Interfaces

Saving... Help 14 days left on Pro Notifications Share

Project overview + Add or import

Views All projects Hide fields Filter Group Sort Color Share view

Find a view

All projects Project status

Projects Status End date Complete? Project docs

	Projects	Status	End date	Complete?	Project docs
1	Updated sales process	Complete	31 October 2022	✓	[document icon]
2	Q4 product launch	In progress	4 November 2022		[document icon]
3	New brand identity	Backlog	8 November 2022		[document icon]

Create a view

- Grid
- Form
- Calendar
- Gallery
- Kanban
- Timeline Pro
- Gantt Pro
- New section Pro

Create an interface

- Record review
- Record summary
- Dashboard
- Blank

+ Add... 3 records

Change your mind?

Import your work

Get started with Airtable right where you left off, with one of the following tools:

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Check out our templates

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Recommended based on your team

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- Product Catalog
- Event Planning
- Simple Project Tracker

See all templates

Restart from scratch

Need help? Check out our helpful resources.



Bases

Templates

Marketplace

Universe

HELP



### Upgrade to Pro before your trial expires

Keep the power you need to manage complex workflows, run reports, and more with tools like:

- ✓ Multiple extensions per base
- ✓ More sync integrations to quickly bring in outside data
- ✓ More record limits and attachment space
- ✓ Team permissions

[Upgrade now](#)

Your email has been verified!

## My First Workspace

Pro trial 14 days left



SHARE



Project Tracker



Add a base

Find a base or interface



Interfaces

WORKSPACES

My First Workspace Trial

+ Add a workspace

Trash

LEARNING AND RESOURCES

Guide to Airtable

Contact sales

Webinars

Help center

Importing

Understanding views

Advanced linking

What's new



### Start from scratch

Create a new blank base with custom tables, fields, and views.



### Quickly upload

Easily migrate your existing projects in just a few minutes.



### Start with templates

Select a template to get started and customize as you go.

## **The Field Types Found in Airtable**

- |                     |                     |                   |
|---------------------|---------------------|-------------------|
| 1. Single Line Text | 9. Attachment       | 17. Created Time  |
| 2. Long Text        | 10. Checkbox        | 18. Modified Time |
| 3. Date             | 11. Multiple Select | 19. Formula       |
| 4. Phone Number     | 12. Single Select   | 20. Autonumber    |
| 5. URL              | 13. Collaborator    | 21. Count         |
| 6. Number           | 14. Duration        | 22. Link          |
| 7. Currency         | 15. Email           | 23. Lookup        |
| 8. Percent          |                     | 24. Rollup        |
|                     |                     | 25. Barcode       |

**A database can be used for representing and tracking people, things, events. and transactions.**

- People (e.g. students, employees, customers, donors, volunteers)
- Things (e.g. properties, stocks, products, books)
- Events (e.g. campaigns, courses, conferences)
- Transactions (e.g. billings, orders, tasks, donations)

**Learning from examples.**



Search Universe

Sort by featured ▾

## CATEGORIES

- Featured
- Arts and culture
- Community mobilization
- Creative production
- Education
- Entrepreneurship
- Fashion and style
- Food and drink
- Government and politics
- Health and self-improvement
- Journalism and publishing
- Local interest
- Marketing and sales
- Nonprofits and volunteering
- Operations
- Product, design, and UX
- Products and consumer reviews
- Professional
- Real estate
- Science and technology

## AIRTABLE UNIVERSE

Explore, discover, and share your passion

## UX Process & Project Planning

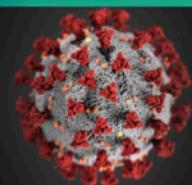
This base gives you an inside look at how Expedia's Flights UX team is using Airtable to organize and automate tracking of projects,...



Expedia Flights



CORONAVIRUS DISEASE 2019 (COVID-19)



Neighborhood Support for



COVID-19 Resources and



Mouse Colony Template

## Templates

Use these starter bases to get a jump start on your project. For inspiration from community-published bases, check out Universe.

 Search

### CATEGORIES

Featured

Content production

Creative

Event Planning

Everyday Life

Groups, Clubs & Hobbies

HR & Recruiting

Legal

Local Business

Marketing

Nonprofit



### Content production



Home

Search To do list

Sort by featured

CATEGORIES

- Featured
- Arts and culture
- Community and local interest
- Creative production
- Education
- Entrepreneurship
- Fashion and style
- Food and drink
- Government and politics
- Health and self-improvement
- Journalism and publishing
- Marketing and sales
- Nonprofits and volunteering
- Operations
- Product, design, and UX

3 results for To do list



## To Do List

#PROFESSIONAL

The old days of scribbling To Do notes in a book that find themselves lost in time are over. Never let any task fall by the wayside again with this Tasklist base. As tasks emerge through...

ClarkeHopkinsClarke 3 years ago



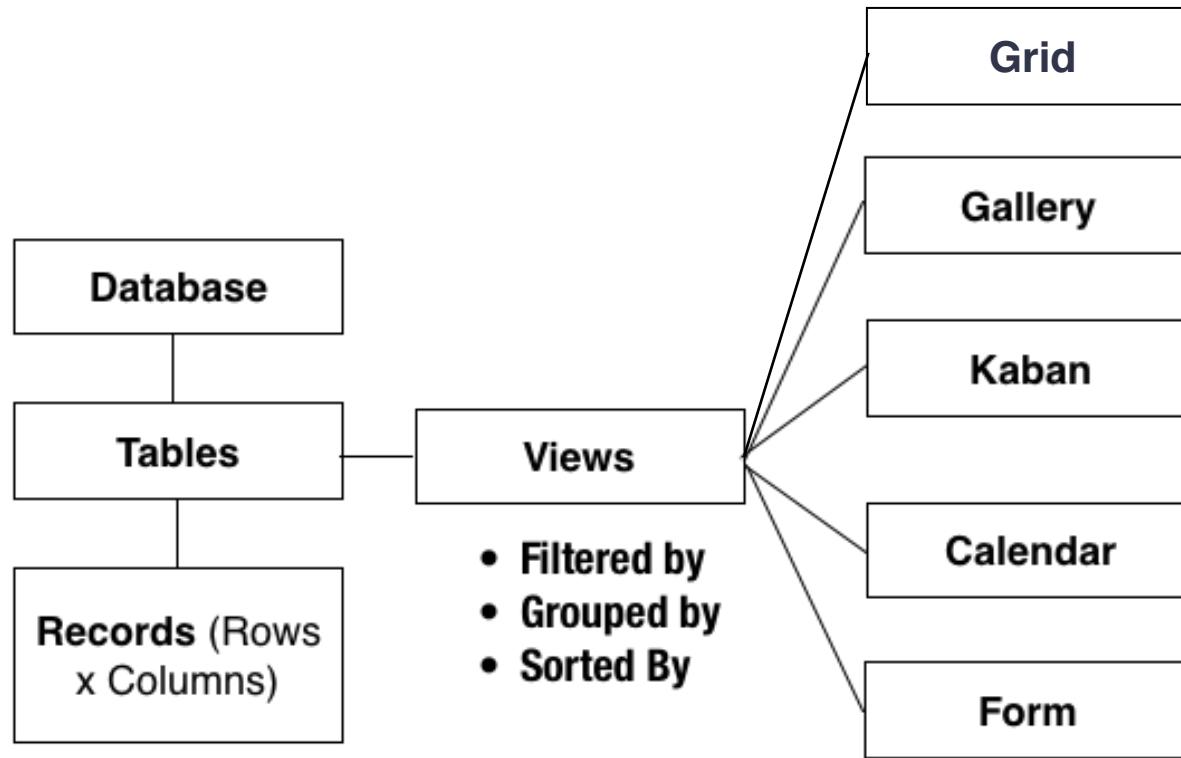
## SIMPLE To Do List & Task Management

Simple To Do List & Task Managem...

#CREATIVE PRODU... #ENTREPRENEU... #HEALTH AND SELF-IMPRO...

A simple to do list and task management base for all those tasks you need to manage. This base features an overarching to do list, where you can set due dates, priority levels and categories for...

Natalie Hands 7 months ago



# **COM5940 Students' Use of Airtable for Project Management**

Pass or pass

Data Automations Interfaces

User Journey Backlog Backlog interviewer Sprints Members Timeline Priorities Statuses +

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

	Name	backlog	Thoughts	Painpoints	Actions
1	想要找工作/有主动意愿	浏览职位、群面列表	我想要一份高薪、有挑战的base广州的工作。	1. 不知道自己对什么工作感兴趣；2. 不知道自己适合什么工作	1.网上搜索各岗位信息；2.向职场...
2	搜索相关信息	记录职位信息 职位的学习资源	我想上百度先搜索一下招聘网站和职位的信息。	1.不知道在哪搜索；2.信息有遗漏滞后错过时机	1.搜索到了求职app;2.寻求好友帮...
3	寻找相关高质量平台	职位的学习资源	我想知道其他人怎么准备群面	不知道哪个平台或者服务对我最有帮助	网络搜索模拟面试平台，发现大部...
4	浏览平台资源	记录职位信息 职位的学习资源	我想上百度先搜索一下招聘网站和职位的信息。	1.不知道在哪搜索；2.信息有遗漏滞后错过时机	1.搜索到了求职app;2.寻求好友帮...
5	平台注册与信息完备	登录、注册 个人信息登记	我想提供这个信息能有助于我之后的群面	1.信息注册不一定准确，有人会填假信息；2.注册程序不要太...	提供真实信息和简历，完成注册流程
6	制作并投递简历	查看简历模板并下载	我想要找到我的理想工作岗位	1.不会制作合格简历，不知道提炼过往经历中的重点信息	1.向社区中的学长学姐们咨询制作...
7	简历优化（付费）	上传简历 优化简历 付费	我想要我的简历能得到HR的认可	简历平台提供的AI简历优化没有针对性	使用平台专人简历优化功能
8	收到面试邀约	面试申请结果查询	我想要在面试中脱颖而出	1.疫情因素，很多企业线上面试，没有线上面试经验；2.面试...	1.记录面试时间、要求；2.准备面经
9	准备面试（查看平台资源）	记录职位信息 面试准备自学	我想要参考以往面试题目来准备面试	不知道面试考核内容	1.网络上搜索面经；2.在社区内搜...
10	申请面试（付费）	面试申请结果查询 首页近期	我想要在正式面试之前提升一下面试能力	1.自己找不到其他面试者；2.成员群面时间不一定合适；3.付...	1.网站上提交申请加入房间2.付费...
11	面试（付费）	面试进行 个人中心面试记录	我想在面试的过程中流畅稳定，与面试官、其他面...	1.其他人在群面中迟到中途退出等等扰乱正常面试；2.面试题...	面试开始前付费预约；按时参加群面
12	服务评价	对专家服务评价	我想得到客观的、有用的评价，特别是面试官的反...	1.打分未必真实，有人可能恶意评分；2.每个人打分的标准不...	rating的同时，要求提供一句话的...
13	论坛分享经验	在社区交流 社区帖子收藏	我想在论坛中看到真实的信息，对我求职有帮助的	1.论坛中信息太多，繁杂筛选出来较难	添加搜索栏；热门经验会权重较高...
14					
15					
16					
17					
18					
19					
20					
21					

Add... 21 records

Create...  
 Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

Pass or pass

User Journey Backlog Backlog interviewer Sprints Members Timeline Priorities Statuses +

Views All Hide fields Filter Group Sort Color Share view

Find a view

All Define Product Backlog Define Essential Cards Create... Grid Form Calendar Gallery Kanban Timeline Gantt New section

Story Use Case Statuses User Journey Sprints Members

	Story	Use Case	Statuses	User Journey	Sprints	Members
1	登录, 注册	我可以随时随地登陆	Done	平台注册与信息完备	Sprint1 Sprint4	晴晴
2	个人信息登记	我需要输入用户名, 学校, 毕业时期, 期望工作岗位; 上传...	Done	平台注册与信息完备	Sprint1	
3	消息提醒	打开通知权限, 回复提醒, 面试开始提醒, 私聊信息提醒, ...	Done	平台注册与信息完备	Sprint2	
4	软件设置	选择关闭提醒或设置稍后提醒; 电话, 邮箱, 重置密码, 关...	Done	平台注册与信息完备	Sprint2	
5	浏览职位、群面列表	我可以根据分类/时间/直接搜索等浏览已记录的信息	Done	想要找工作/有主动意愿	Sprint1 Sprint4	大南 佳璐
6	首页近期群面提醒	我可以在这里看到近期面试的信息	Done	申请面试 (付费)	Sprint3	阿熊
7	记录职位信息	我可以查看职位信息, 包括: 岗位分类、岗位需求、就职地...	Done	搜索相关信息 浏览平台资源	Sprint1	婷婷 大南 佳璐
8	职位的学习资源	我可以查看职位在线学习资源, 求职之前的之前准备经验内容	Done	搜索相关信息 浏览平台资源	Sprint1	大南 佳璐
9	面试准备自学	我可以查看往年面试真题	Done	准备面试 (查看平台资源)	Sprint1	阿熊
10	面试技能提升	我可以申请参加面试并预约面试官	Done	申请面试 (付费) 准备面试	Sprint1 Sprint4	阿熊
11	面试申请结果查询	可以找到自己申请成功的面试, 并获取面试的会议码及时间	Done	申请面试 (付费) 收到面试	Sprint2 Sprint4	阿熊
12	面试申请取消	我可以取消我已申请的面试	Done	申请面试 (付费)	Sprint2 Sprint4	阿熊
13	面试进行	我可以在这里跳转到腾讯会议开始面试, 面试官提供面试真题	Done	面试 (付费)	Sprint1	阿熊
14	个人中心面试记录	我可以查看我的面试记录 (已面试, 预约的面试)	Done	面试 (付费)	Sprint2	阿熊
15	在社区交流	我可以在社区分享面试心得、疑惑、搜索、发布、评论; 在...	Done	论坛分享经验	Sprint3 Sprint4	婷婷
16	社区帖子收藏	我可以收藏社区中有用的经验, 之后在“消息”中可以查看收...	Done	论坛分享经验	Sprint3	婷婷
17	关注感兴趣的用户	我可以通过关注其他用户, 更方便浏览其动态	Done	论坛分享经验	Sprint3	婷婷
18	创建社区小组	我可以通过关注其他用户, 更方便浏览其动态	Done	论坛分享经验	Sprint3	婷婷
19	对专家服务评价	我可以在面试后得到此次面试别人以及面试官对我的评价	Done	服务评价	Sprint2	婷婷
20	查看简历模板并下载	我可以查看简历模板并且下载制作	Done	制作并投递简历	Sprint1	晴晴
21	上传简历	我可以上传自己的简历	Done	简历优化 (付费)	Sprint2	阿熊
22	优化简历	我可以上传自己的简历获得优化	Done	简历优化 (付费)	Sprint1 Sprint4	晴晴

+ Add... 26 records

Pass or pass

Data Automations Interfaces

User Journey Backlog Backlog interviewer Sprints Members Timeline Priorities Statuses +

Views All 5 hidden fields Filter Group Sort Color Share view

Find a view

	Name	Goal	Stories	Statuses
1	Sprint1	build core functions of the APP	面试准备自学 记录职位信息 个人信息登记 登录，注册 浏览职位、群面列表 职位的学习资源 面试技能提升 查看简历模板并下载 优化简历 面试申请结果查询 对专家服务评价 付费 个人中心面试记录 上传简历	Done
2	Sprint2	Increase functions for better user exp...	消息提醒 软件设置 面试申请结果查询 面试申请取消 对专家服务评价 付费 个人中心面试记录 上传简历	Done
3	Sprint3	Complete additional functions	社区帖子收藏 在社区交流 关注感兴趣的用户 首页近期群面提醒 创建社区小组	Done
4	Sprint4	Overall Function Optimization	登录，注册 浏览职位、群面列表 面试技能提升 面试申请结果查询 面试申请取消 在社区交流 优化简历	Done
5				
+ Create...				

Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 5 records

Pass or pass

Data Automations Interfaces

User Journey Backlog Backlog interviewer Sprints Members Timeline Priorities Statuses +

Views All 4 hidden fields Filter Group Sort Color Share view

Find a view

All

	Nick	Full name	stories
1	阿熊	Chaoxiong Huang	面试准备自学 面试技能提升 面试进行 首页近期群面提醒 面试申请结果查询 面试申请取消 上传简历
2	佳璐	Jialu Zhou	浏览职位、群面列表 记录职位信息 职位的学习资源
3	晴晴	Qing Chu	查看简历模板并下载 登录，注册 优化简历
4	大南	Yuqing Nan	浏览职位、群面列表 记录职位信息 职位的学习资源
5	婷婷	Zhang Tingting	在社区交流 社区帖子收藏 关注感兴趣的用户 对专家服务评价 记录职位信息 创建社区小组
+			

Create...

Grid

Form

Calendar

Gallery

Kanban

Timeline Pro

Gantt Pro

New section Pro

+ Add... 5 records

Pass or pass

Data Automations Interfaces

User Journey Backlog Backlog interviewer Sprints Members Timeline Priorities Statuses +

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

Name Sprints Priorities Deadline Status Goal Members

1.1 Team meeting Sprint1 A 28/2/2021 Done 确定project基本框架·明确目标用户 阿熊 晴晴 佳璐 大南 婷婷

1.2 Interview Sprint1 A 27/2/2021 Done 采访目标用户，进一步确定用户需求 阿熊 晴晴 佳璐 大南 婷婷

1.3 Zoom with Bernard Sprint1 A 28/2/2021 Done 和老师进一步明确产品的整体规划 阿熊 晴晴 佳璐 大南 婷婷

1.4 Team meeting 2.0 Sprint1 A 1/3/2021 Done 进一步确定确定目标用户和产品基础功能 阿熊 晴晴 佳璐 大南 婷婷

1.5 Persona & Table segmentation Sprint1 A 1/3/2021 Done 搜索相关背景资料·create persona 阿熊 晴晴 佳璐 大南 婷婷

1.6 Journey mapping Sprint1 A 2/3/2021 Done 完成功能·需求优先级排列 阿熊 晴晴 佳璐 大南 婷婷

1.7 Structure & Workflow Sprint1 A 3/3/2021 Done 完成流程及思维导图 阿熊 晴晴 佳璐 大南 婷婷

1.8 Prototyping Sprint1 A 4/3/2021 Done 完成初始prototype 1.0 阿熊 晴晴 佳璐 大南 婷婷

1.9 Process report#1 Sprint1 A 8/3/2021 Done 完成process report#1 阿熊 晴晴 佳璐 大南 婷婷

2.1 Usability test Sprint2 A 11/3/2021 Done 完成Usability test 1.0 阿熊 晴晴 佳璐 大南 婷婷

2.2 Plan : Optimize prototype Sprint2 A 15/3/2021 Done 优化prototype 1.0 阿熊 晴晴 佳璐 大南 婷婷

2.3 test Sprint2 A 21/3/2021 Done 测试优化版prototype 1.0 阿熊 晴晴 佳璐 大南 婷婷

2.4 review Sprint2 A 23/3/2021 Done usability test2.0 阿熊 晴晴 佳璐 大南 婷婷

2.5 Process Report#2 Sprint2 A 27/3/2021 Done 完成process report#2 阿熊 晴晴 佳璐 大南 婷婷

3.1 Revise Prototype Sprint3 A 5/4/2021 Done 根据usability test2.0完善prototype1.0 阿熊 晴晴 佳璐 大南 婷婷

3.2 Plan : Optimize prototype Sprint3 A 6/4/2021 Done 再迭代优化一版prototype2.0 阿熊 晴晴 佳璐 大南 婷婷

3.3 Build Sprint3 A 7/4/2021 Done 完成第二版原型搭建 阿熊 晴晴 佳璐 大南 婷婷

3.4 Final presentation Sprint4 A 12/4/2021 Done 小组展示成果 阿熊 晴晴 佳璐 大南 婷婷

3.5 test Sprint3 A 15/4/2021 Done 测试 阿熊 晴晴 佳璐 大南 婷婷

3.6 review Sprint3 A 19/4/2021 Done 测试回顾并在此再次优化 阿熊 晴晴 佳璐 大南 婷婷

3.7 build Sprint3 A 19/4/2021 Done 完成prototype3.0 阿熊 晴晴 佳璐 大南 婷婷

4.1 plan : Optimize service process Sprint4 A 20/4/2021 Done 计划测试服务流程 阿熊 晴晴 佳璐 大南 婷婷

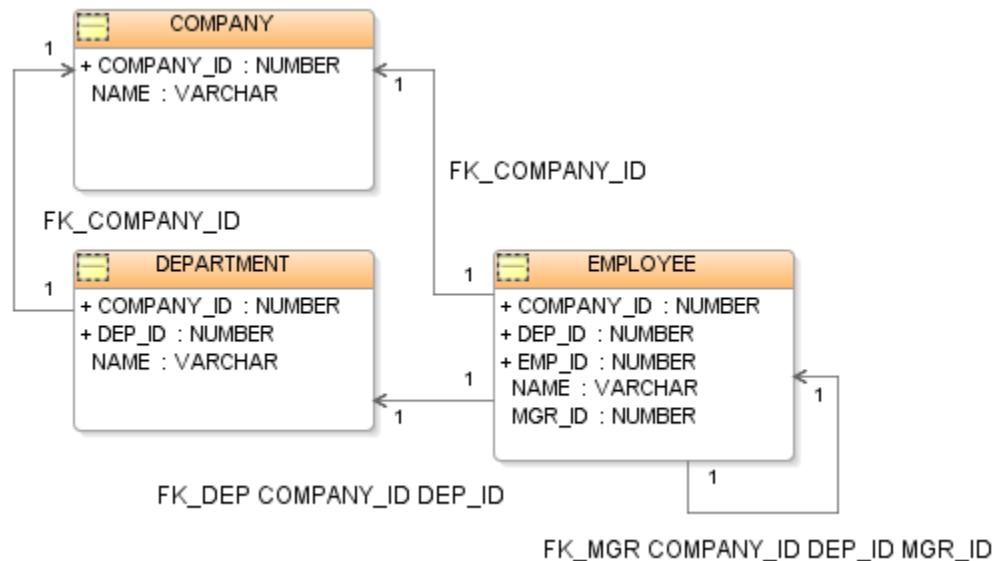
+ Add... 26 records

# **Relational Database vs. Delimited CSV (Comma Separated Values) File**

# **Primary Key and Foreign Key**

# Building relationships between tables by using foreign keys.

- Every entry in a table should be uniquely defined by a **primary key**.
- Build relationships between tables by making one of the fields in the table as a **foreign key** linked to the **primary key** of another table.



Source: commons.wikimedia.org

# Relational Database

Columns (Fields)

Contacts						
	id	name	age	birthday	email	country_id
	1	Peter Chan	52	1968-05-01	peter@gmail.com	1
	3	Tony Wong	16	2005-07-11	robert@gmail.com	2
	4	Robert Choi	36	1983-03-23	rchoi@cuhk.edu.hk	3
	5	John Li	16	2005-05-23	jli@gmail.com	4

Primary Key (PK)

Foreign Key (FK)

Columns (Fields)

Countries

	country_id	country_name
	1	PRC
	2	USA
	3	France
	4	Japan
	5	Italy
	6	Germany

Primary Key (PK)

Rows  
(Records)

## CSV File

	id	name	age	birthday	email	country
	1,	"Peter Chan",	52,	"1968-05-01",	peter@gmail.com,	PRC
	3,	"Tony Wong",	16,	"2005-07-11",	robert@gmail.com,	USA
	4,	"Robert Choi",	36,	"1983-03-23",	rchoi@cuhk.edu.hk	France
	5,	"John Li",	16,	"2005-05-23",	jli@gmail.com,	Japan
	6,	"Coco Zhang",	16,	"2005-07-23",	coco@yahoo.com,	People Republic of China
	7,	"	"	"	"	"
	8,	"	"	"	"	PRC
	9,	"	"	"	"	"

country
PRC
USA
France
Japan
People Republic of China
PRC

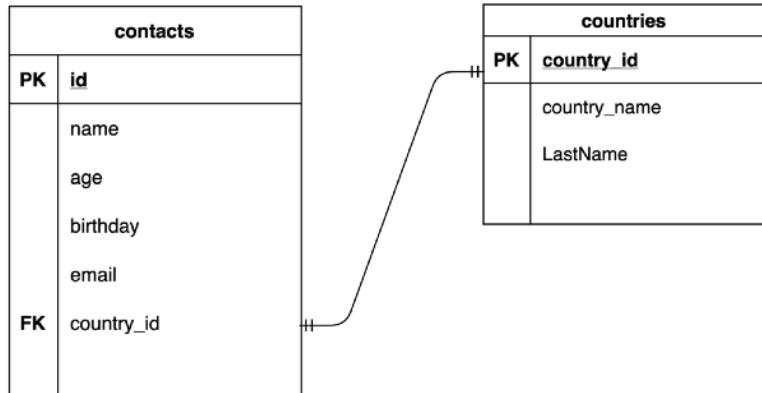


# **Advantages and Disadvantages in Using CSV File**

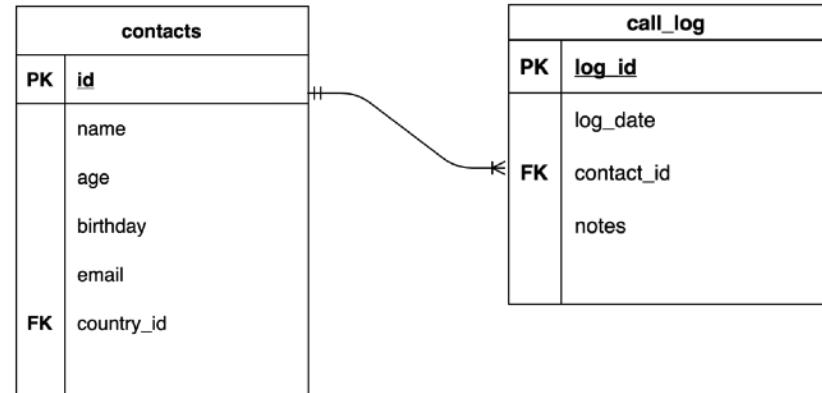
- **Simple to use and build.**
- **Hard to update (when field value changes, all related entries have to be changed manually).**
- **Lend itself to inconsistent entries when different people enter different values representing the same attribute (e.g. country name).**
- **Lead to enormous number of fields (columns) per table when dealing with complex data models.**
- **Make data modelling overly complicated.**
- **CSV file is not as secured as relational database.**

# **Linking Tables**

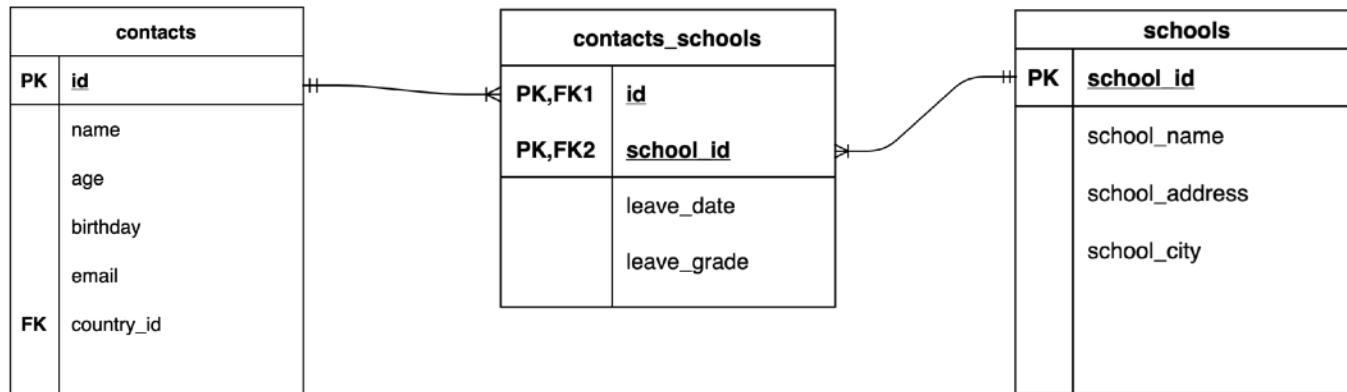
## • One-to-One

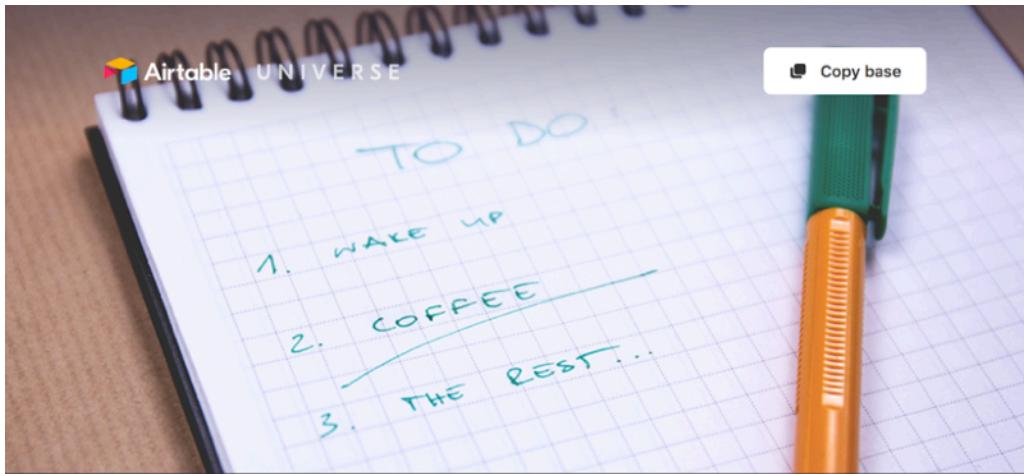


## • One-to-Many



## • Many-to-Many





# To Do List

#PROFESSIONAL

The old days of scribbling To Do notes in a book that find themselves lost in time are over. Never let any task fall by the wayside again with this

PRIORITY	COMPLETED	Task Description
Urgent	<input type="checkbox"/>	1. Urgent task
Urgent	<input type="checkbox"/>	2. Urgent task
Urgent	<input type="checkbox"/>	3. Urgent task

PRIORITY	COMPLETED	Task Description
High	<input type="checkbox"/>	4. High priorit
High	<input type="checkbox"/>	5. High priorit
High	<input type="checkbox"/>	6. High priorit

13 records

The screenshot shows a database interface with two main views and their associated configuration panels.

**Top View (Tasks View):**

- Header: Tasks (highlighted with a red box), People, + Add or import.
- Toolbar: Views, Priority Rated, Hide fields, Filter, Grouped by 2 fields, Sort, Color, Share view.
- Left sidebar: Find a view, Priority Rated (selected), By date, Completed Tasks, Kanban by Priority.
- Table header: A Name, Date, Prior..., People involved.
- Table body:
  - PRIORITY: Urgent (Count 3)
  - 1. Urgent task 1
  - 2. Urgent task 2
  - 3. Urgent task 3
- Configuration panel (right):
  - People involved
  - Link to People
  - This field will link to records in the People table.
  - Allow linking to multiple records (highlighted with a red box)
  - Show linked records in reversed order
  - Limit record selection to a view

**Bottom View (People View):**

- Header: People (highlighted with a red box), + Add or import.
- Toolbar: ws, Main View, Hide fields, Filter, Group, Sort, Color, Share view.
- Left sidebar: Find a view, Main View (selected).
- Table header: A Staff, Tasks.
- Table body:
  - 1. Amy
  - 2. Andy
  - 3. Brad
  - 4. Clare
  - 5. Jessica
  - 6. Rebecca
- Configuration panel (right):
  - Tasks
  - Link to Tasks
  - This field will link to records in the Tasks table.
  - Allow linking to multiple records (highlighted with a red box)
  - Show linked records in reversed order
  - Limit record selection to a view

## ● Many-to-Many

To Do List

Data Automations Interfaces

Tasks People + Add or import

Views Priority Rated Hide fields Filter Grouped by 2 fields

Find a view

Priority Rated ✓

By date

Completed Tasks

Kanban by Priority

Create...

Grid

Form

Calendar

Gallery

Kanban

Timeline Pro

Gantt Pro

New section Pro

Find an existing record

Amy

Andy

Brad

Clare

Jessica

+ Add new record

PRIORITY

Urgent

COMPLETED

Urgent task 1

Urgent task 2

Urgent task 3

+

PRIORITY

High

COMPLETED

High priority task 1

High priority task 2

High priority task 3

+

PRIORITY

Medium

Count 3

COMPLETED

Medium priority task 1

Medium priority task 2

Medium priority task 3

+ Add... 13 records

Attachments

Share

Help Notifications

Extensions

# ● Many-to-Many

To Do List Data Automations Interfaces All changes saved Help Notifications Share Extensions

Tasks People + Add or import Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view Find a view Priority Rated By date Completed Tasks Kanban by Priority Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

PRIORITY	Name	Date	Prior...	People involved	Comments	Attachments
Urgent	Urgent task 1		Urgent	+ Brad x Amy x		
	Urgent task 2		Urgent			
	Urgent task 3		Urgent			
High	High priority task 1		High			
	High priority task 2		High			
	High priority task 3		High			
Medium	Medium priority task 1		Medium			
	Medium priority task 2		Medium			
	Medium priority task 3		Medium			

In this many-to-many relationship, a task is related to multiple people, while each person is at the same time related to multiple tasks. The task is linked to multiple people because they are collaborating to work on the task together.

- **Many-to-Many**

The screenshot shows a software application with a blue header bar. The header includes the title "To Do List", navigation tabs like "Data", "Automations", and "Interfaces", and status indicators like "All changes saved", "Help", "Notifications", and "Share". Below the header is a toolbar with "Tasks", "People", "Add or import", and "Extensions". The main area has a "Views" section with "Main View" selected. A search bar says "Find a view". The main content area displays two lists: "Staff" on the left and "Tasks" on the right. The "Staff" list includes entries for Amy, Andy, Brad, Clare, Jessica, and Rebecca. The "Tasks" list includes "Urgent task 3" and "Urgent task 1". A red box highlights the row for "Amy" in the Staff list, which is associated with both tasks. To the right of the lists is a large text box containing the following text:

In this many-to-many relationship, a person is related to multiple tasks while each task is at the same time related to multiple people. The person is linked to multiple tasks because he or she has been assigned to work on them.

**• Many-to-Many**

On the far left, there's a sidebar with a "Create..." button and a list of view types: Grid, Form, Calendar, Gallery, Kanban, Timeline (Pro), Gantt (Pro), and New section (Pro). Each item has a "+" sign next to it.

To Do List Data Automations Interfaces

Tasks People Add or import Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view Find a view Priority Rated By date Completed Tasks Kanban by Priority Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

Priority Rated

Name Date Prior... People involved Comments Attachments

PRIORITY

**Urgent**

Count 3

COMPLETED

1 Urgent task 1

2 Urgent task 2

3 Urgent task 3

+

This field will link to records in the People table.

Allow linking to multiple records

Show linked records in reversed order

Limit record selection to a view

+ Add description Cancel Save

PRIORITY

**High**

Count 3

COMPLETED

4 High priority task 1

5 High priority task 2

6 High priority task 3

+

High

High

High

PRIORITY

**Medium**

Count 3

COMPLETED

7 Medium priority task 1

8 Medium priority task 2

+

Medium

Medium

Medium

People involved

Link to People

By disabling the link to multiple records, the relationship is set to one-to-many instead of many-to-many.

● One-to-Many

To Do List Data Automations Interfaces

Tasks People + Add or import Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view Find a view Priority Rated By date Completed Tasks Kanban by Priority Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

Priority Rated

Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view

Find a view

Priority Rated

By date

Completed Tasks

Kanban by Priority

Create...

Grid

Form

Calendar

Gallery

Kanban

Timeline Pro

Gantt Pro

New section Pro

A Name Date Prior... People involved Comments Attachments

PRIORITY

Urgent

Count 3

COMPLETED

3

Urgent task 1 Urgent Brad

2 Urgent task 2 Urgent

3 Urgent task 3 Urgent Amy

+ +

PRIORITY

High

Count 3

COMPLETED

3

4 High priority task 1 High

5 High priority task 2 High

6 High priority task 3 High

+ +

PRIORITY

Medium

Count 3

COMPLETED

3

7 Medium priority task 1 Medium

8 Medium priority task 2 Medium

+ Add... 13 records

Thus, only one person can work on each task.

- One-to-Many

To Do List Data Automations Interfaces

Tasks People Confidential Add or import

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

	Name	Notes	Assignee	Status
1				
2				
3				
+				

Create... Grid Form Calendar Gallery Kanban Timeline Gantt New section

+ + + + + + + + + + + +

+ Add... 3 records

Assignee

Back Find a table to link records from

Tasks

People

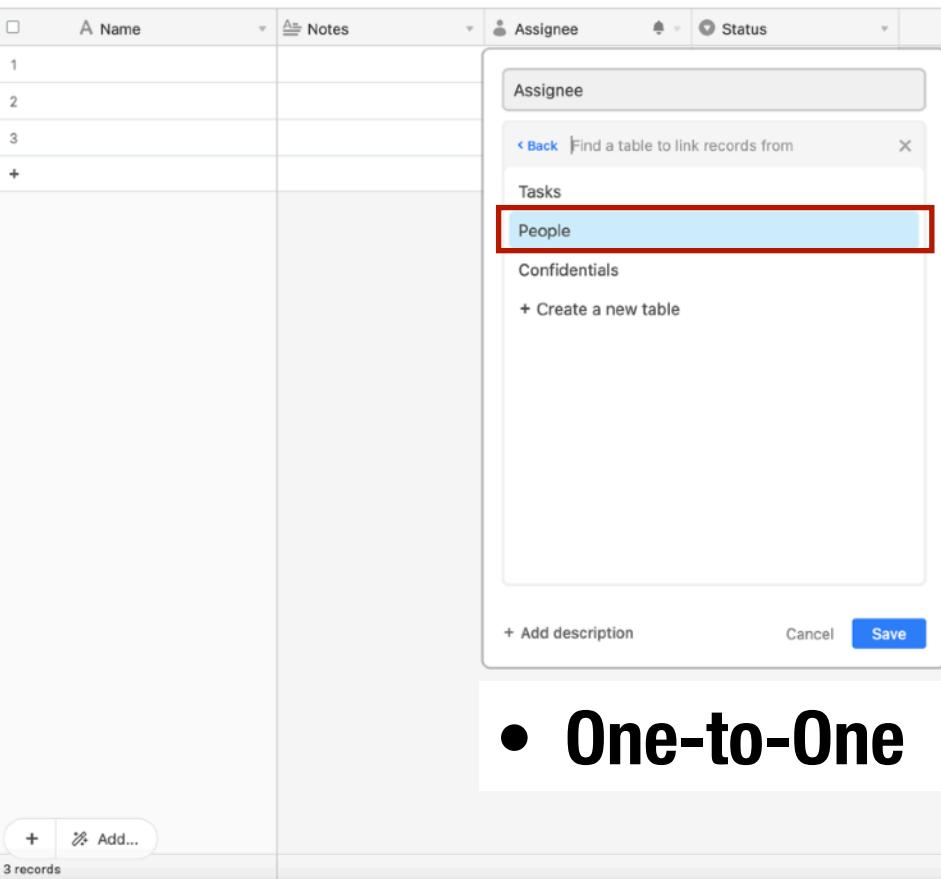
Confidential

+ Create a new table

+ Add description Cancel Save

Link “Assignee” field (foreign key) to the “People” table.

● One-to-One



To Do List Data Automations Interfaces

Tasks People Confidential Add or import Views Grid view Hide fields Filter Group Sort Color Share view Find a view Grid view Examples: Amount \* Price AVERAGE(column1, column2) Name & "-" & Date IF(Price \* Quantity > 5, "Yes", "No")

Name Notes Assignee Status Salary

This is the table's primary field. It cannot be hidden or moved. The name is meant to be a short, unique representation of each record in your table.

Formula Compute a value in each record based on other fields in the same record. Learn more

Formula Formatting

Assignee

+ Add description Cancel Save

Use a formula function to define “Name” as the primary key of the “Confidential” table..

● One-to-One

Create... Grid Form Calendar Gallery Kanban Timeline Gantt New section

Sum \$0.00

The screenshot shows a software application interface, likely a database or project management tool. At the top, there's a navigation bar with 'To Do List', 'Data', 'Automations', and 'Interfaces'. Below the navigation is a toolbar with 'Tasks', 'People', 'Confidential', 'Add or import', 'Views', 'Grid view', 'Filter', 'Group', 'Sort', 'Color', and 'Share view'. A search bar says 'Find a view' and a dropdown says 'Grid view'. On the left, there's a sidebar with 'Create...', 'Grid', 'Form', 'Calendar', 'Gallery', 'Kanban', 'Timeline Pro', 'Gantt Pro', and 'New section Pro'. The main area shows a table with columns: Name, Notes, Assignee, Status, and Salary. The 'Name' column is highlighted. A tooltip says 'This is the table's primary field. It cannot be hidden or moved.' and 'The name is meant to be a short, unique representation of each record in your table.'. A modal window is open for the 'Name' field, titled 'Formula'. It says 'Compute a value in each record based on other fields in the same record. Learn more'. It has tabs for 'Formula' (selected) and 'Formatting'. The formula input field contains 'Assignee'. There are buttons for '+ Add description', 'Cancel', and 'Save'. To the right of the modal, there's a large text block: 'Use a formula function to define “Name” as the primary key of the “Confidential” table..'. Below the modal, there's a large bold text '● One-to-One'. At the bottom, it says '3 records' and 'Sum \$0.00'.

To Do List Data Automations Interfaces

Tasks People Confidential + Add or import Views Main View Hide fields Filter Group Sort Color Share view Find a view Main View

|   | Staff   | Tasks         | Confidential |
|---|---------|---------------|--------------|
| 1 | Amy     | Urgent task 3 |              |
| 2 | Andy    |               |              |
| 3 | Brad    | Urgent task 1 |              |
| 4 | Clare   |               |              |
| 5 | Jessica |               |              |
| 6 | Rebecca |               |              |
| + |         |               |              |

Confidential

Link to Confidential

This field will link to records in the Confidential table.

Allow linking to multiple records

Show linked records in reversed order

Limit record selection to a view

+ Add description Cancel Save

● One-to-One

Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 6 records

To Do List

Tasks | People | Confidentials | Add or import

Views | Grid view | Hide fields | Filter | Group | Sort | Color | Share view

Find a view

Grid view

Name Notes Assignee Status

1

2

3

+

Assignee

Link to People

This field will link to records in the People table.

Allow linking to multiple records

Show linked records in reversed order

Limit record selection to a view

+ Add description Cancel Save

Create...

Grid Form Calendar Gallery Kanban Timeline Gantt New section

3 records

One-to-One

One-to-One

# **Lookup Tables**

To Do List Data Automations Interfaces

Tasks People Confidentials + Add or import

Views Main View Hide fields Filter Group Sort Color Share view

Find a view

Main View

A Staff Tasks Education Level Join Da... Email Confidentials

|   | Staff   | Tasks         | Education Level | Join Da... | Email | Confidential |
|---|---------|---------------|-----------------|------------|-------|--------------|
| 1 | Amy     | Urgent task 3 |                 |            |       |              |
| 2 | Andy    |               |                 |            |       |              |
| 3 | Brad    | Urgent task 1 |                 |            |       |              |
| 4 | Clare   |               |                 |            |       |              |
| 5 | Jessica |               |                 |            |       |              |
| 6 | Rebecca |               |                 |            |       |              |
|   | +       |               |                 |            |       |              |

New fields added to the “People” table.

Create...

Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ + + + + + + + + + + +

+ Add... 6 records

To Do List Data Automations Interfaces

Tasks People Confidentials Add or import

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

|             | Name | Notes | Assignee | Status | Salary | Legal Documents |    |
|-------------|------|-------|----------|--------|--------|-----------------|----|
| 1           | Amy  |       | Amy      |        |        |                 | \$ |
| 2           | Andy |       | Andy     |        |        |                 | \$ |
| 3           | Brad |       | Brad     |        |        |                 | \$ |
| + 3 records |      |       |          |        |        |                 |    |

Field name (optional)

Lookup

Lookup a field on linked records.

Configuration Formatting

Field on this table that links to the records you want to look up

Assignee

People table field that you'd like to look up

Choose a field

Find a field

A Staff

Tasks

Education Level

Join Date

Email

Confidential

Sum \$63,000.00

Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 3 records

Lookups

Lookup fields such as Education Level, Join Date, and Email from the People table linked through the Assignee field (foreign key).

To Do List Data Automations Interfaces

Tasks People Confidentials Add or import

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

Create...  
Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 3 records Sum \$63,000.00

Education Level... Join Date (from Assigne...) Email (from Assigne...)

|   | Name | Notes | Assignee | Status | Salary      | Legal Documents |
|---|------|-------|----------|--------|-------------|-----------------|
| 1 | Amy  |       | Amy      |        | \$20,000.00 |                 |
| 2 | Andy |       | Andy     |        | \$25,000.00 |                 |
| 3 | Brad |       | Brad     |        | \$18,000.00 |                 |
| + |      |       |          |        |             |                 |

Lookup fields with data extracted from “People” table.

# **Airtable Formula Field and Functions**



Formula Playgr...



1 result for Formula Playground

Sort by featured ▾

## CATEGORIES

- Featured
- Arts and culture
- Community mobilization
- Creative production
- Education
- Entrepreneurship
- Fashion and style
- Food and drink
- Government and politics
- Health and self-improvement
- Journalism and publishing
- Local interest
- Marketing and sales
- Nonprofits and volunteering
- Operations
- Product, design, and UX
- Products and consumer reviews
- Professional
- Real estate
- Science and technology
- Sports and games
- Travel and outdoors



**Airtable Formula Playgrou...**

#CREATIVE PRO... #OPERA... #PROFESS...

We have created the below Formula Playground base as a space to reference and test every Airtable formula. As the...

 Jason Schulke 9 months ago

Publish and manage

## Formulas

[Use template](#)

# Formula fields in Airtable

Updated 9 months ago  
Copied 1148 times

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Jason Schulke  
Customer Experience @ Airtable

## Airtable Formula Playground

#OPERATIONS #CREATIVE PRODUCTION #PROFESSIONAL

We have created the below *Formula Playground* base as a space to reference and test every Airtable formula.

As the name of the base indicates—we created this *Formula Playground* base experience with "play" in mind for a more hands-on approach to learning and testing out formulas. We recommend creating a personal copy of the below *Formula Playground* base so you can easily reference it whenever you please.

### All Functions and Operators

- All Formulas
- Formula Formatting
- Text operators & functions
- Logical operators & functions
- Numeric operators & functions
- Date and time functions
- Regex functions
- Record functions
- Array functions

### Common Errors

- Common Errors
- Gallery of Errors

[Explore the base →](#)

### Text function examples

- All — use the below views to see examples of each function
- UPPER()
- LOWER()
- LEN()
- CONCATENATE()
- REPT()
- TRIM()
- RIGHT()
- LEFT()
- MID()

| 9 hidden fields | Filter                 | G          |
|-----------------|------------------------|------------|
| Name            | &                      |            |
| 1               | CONCATENATE()          |            |
| 2               | TRIM()                 |            |
| 4               | SEARCH()               |            |
| 5               | ENCODE_URL_COMPONENT() |            |
| 6               | SUBSTITUTE()           |            |
| 7               | FIND()                 |            |
| 8               | LOWER()                |            |
| 9               | UPPER()                |            |
| 10              | REPT()                 |            |
| 12              | MID()                  | T()        |
| 13              | RIGHT()                |            |
| 14              | LEFT()                 |            |
| 15              | LEN()                  |            |
| 16              | ' '                    |            |
| 17              | ##                     |            |
| 18              | MID()                  |            |
| 19              | REPLACE()              |            |
| 20              | >                      |            |
| 21              | =                      |            |
| 22              | !=                     |            |
| 23              | >=                     |            |
|                 |                        | 98 records |

Formula Playground

All Functions and Operators | Common Errors | Text function examples | Logical function examples | Numeric function examples | Date and time function examples | REGEX function examples | Share | Extensions

Views | All Formulas | 9 hidden fields | Filter | Group | Sorted by 1 field | Color | Share view

Find a view

All Formulas

Text operators & functions

Logical operators & functions

Numeric operators & functions

Date and time functions

Regex functions

Record functions

Array functions

Create...

Grid

Form

Calendar

Gallery

Kanban

Timeline Pro

Gantt Pro

New section Pro

Name

Formula Data Type

Description

Technical Function Usage

Example Function Usage

| Name                   | Formula Data Type                 | Description  | Technical Function Usage                   | Example Function Usage                     |
|------------------------|-----------------------------------|--|--|--|
| &                      | Text operators and functions      | Concatenate text values into a single text value.            | &  | {Last name} & ", " & {First name}          |
| CONCATENATE()          | Text operators and functions      | Joins together the text arguments into a single text value   | CONCATENATE(text1, [text2, ...])           | CONCATENATE("Bob", " - ", 43)              |
| TRIM()                 | Text operators and functions      | Removes whitespace at the beginning and end of string.       | TRIM(string)                               | TRIM(" Hello! ") => "Hello"                |
| SEARCH()               | Text operators and functions      | Searches for an occurrence of stringToFind in whereToS...    | SEARCH(stringToFind, whereToSearch)        | SEARCH("World", "Hello World")             |
| ENCODE_URL_COMPONENT() | Text operators and functions      | Replaces certain characters with encoded equivalents f...    | ENCODE_URL_COMPONENT(component)            | ENCODE_URL_COMPONENT("chicken & chips")    |
| SUBSTITUTE()           | Text operators and functions      | Replaces occurrences of old_text with new_text.              | SUBSTITUTE(string, old_text, new_text)     | SUBSTITUTE("gold mold", "old", "new")      |
| FIND()                 | Text operators and functions      | Finds an occurrence of stringToFind in whereToSearch ...     | FIND(stringToFind, whereToSearch)          | FIND("fox", "quick brown fox")             |
| LOWER()                | Text operators and functions      | Makes a string lowercase.                                    | LOWER(string)                              | LOWER("Hello!") => "hello!"                |
| UPPER()                | Text operators and functions      | Makes string uppercase.                                      | UPPER(string)                              | UPPER("Hello!") => "HELLO!"                |
| REPT()                 | Text operators and functions      | Repeats string by the specified number of times.             | REPT(string, number)                       | REPT("Hi! ", 3) => "Hi! Hi! Hi!"           |
| MID()                  | Text operators and functions      | Extract a substring of count characters starting at wher...  | MID(string, whereToStart, count)           | MID("quick brown fox", 6, 5) => "brown"    |
| T()                    | Text operators and functions      | Returns the argument if it is text and blank otherwise.      | T(value1)                                  | T("hello") => "hello"                      |
| RIGHT()                | Text operators and functions      | Extract howMany characters from the end of the string.       | RIGHT(string, howMany)                     | RIGHT("quick brown fox", 5) => "fox"       |
| LEFT()                 | Text operators and functions      | Extract how many characters from the beginning of the str... | LEFT(string, howMany)                      | LEFT("quick brown fox", 5) => "quick"      |
| LEN()                  | Text operators and functions      | Returns the length of a string.                              | LEN(string)                                | LEN("quick brown fox") => 15               |
| " "                    | Text operators and functions      | Create a line break when inserted between other text in...   | '\n'                                       | CONCATENATE({Students} & '\n' & {Courses}) |
| ""                     | Text operators and functions      | Smart quotes ("") appear curved and will cause an error.     | ""   | "Hello friend!"                            |
| MID()                  | Text operators and functions      | Extract a substring of count characters starting at wher...  | MID(string, whereToStart, count)           | MID("quick brown fox", 6, 5) => "brown"    |
| REPLACE()              | Text operators and functions      | Replaces the number of characters beginning with the st...   | REPLACE(string, start, count, replacement) | REPLACE("database", 2, 5, "o")             |
| >                      | ? Logical operators and functions | Compare if one value is greater than another value.          | >  | 3 > 2                                      |
| =                      | ? Logical operators and functions | Compare if one value is equal to another value.              | =  | 5 = 5                                      |
| !=                     | ? Logical operators and functions | Check if one value is not equal to another value.            | !=   | 3 != 2                                     |

Available functions.

Function input parameters and use case.

To Do List Data Automations Interfaces

Tasks People Confidentials Add or import

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

Name from Assignee Overtime Total Income Over 25000

|   | Name | Overtime | Total Income | Over 25000 |
|---|------|----------|--------------|------------|
| 1 | Amy  |          | 25500        | Over       |
| 2 | Andy |          | 29500        | Over       |
| 3 | Brad |          | 21000        | -          |

**Formula field**

Total Income

f<sub>x</sub> Formula

Compute a value in each record based on other fields in the same record. Learn more

Examples:  
Amount \* Price  
AVERAGE(column1, column2)  
Name & "-" & Date  
IF(Price \* Quantity > 5, "Yes", "No")

Formula Formatting

S

INSERT A FIELD OR FUNCTION

| Notes                           | field    |
|---------------------------------|----------|
| Assignee                        | field    |
| Status                          | field    |
| Salary                          | field    |
| Legal Documents                 | field    |
| Education Level (from Assignee) | field    |
| Join Date (from Assignee)       | field    |
| Email (from Assignee)           | field    |
| SUM()                           | function |
| FALSE()                         | function |
| ISERROR()                       | function |
| SQRT()                          | function |
| ABS()                           | function |

+ Add description Cancel Save

Sum \$13,000.00 Sum 76000

Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 3 records

**Built-in functions that can be used in the formula field.**

- SUM()
- FALSE()
- ISERROR()
- SQRT()
- ABS()

To Do List Data Automations Interfaces

Tasks People Confidentials Add or import

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

|   | Name | Salary      | Email (from Assignee) | Overtime   | Total Income | Over 25000 |
|---|------|-------------|-----------------------|------------|--------------|------------|
| 1 | Amy  | \$20,000.00 |                       | \$5,500.00 | 25500        | Over       |
| 2 | Andy | \$25,000.00 |                       | \$4,500.00 | 29500        | Over       |
| 3 | Brad | \$18,000.00 |                       | \$3,000.00 | 21000        | -          |

Total Income  
fx Formula

Compute a value in each record based on other fields in the same record. Learn more

Formula Formatting

Salary + Overtime

+ Add description Cancel Save

Create...  
Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 3 records Sum \$63,000.00 Sum \$13,000.00 Sum 76000

**Formula input parameters (“Salary” and “Overtime”) with output result displayed in the table cell.**

The screenshot shows a Notion database interface with a grid view of employee data. The columns include Name, Salary, Email (from Assignee), Overtime, Total Income, and Over 25000. A formula dialog is open for the 'Total Income' column, showing the formula 'Salary + Overtime'. The resulting values are displayed in the table cells.

To Do List Data Automations Interfaces

Tasks People Confidentials Add or import

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

|   | Name | Salary      | Email (from Assignee) | Overtime | Total Income | Over 25000 |
|---|------|-------------|-----------------------|----------|--------------|------------|
| 1 | Amy  | \$20,000.00 |                       |          | \$5,500.00   | 25500 Over |
| 2 | Andy | \$25,000.00 |                       |          | \$4,500.00   | 29500 Over |
| 3 | Brad | \$18,000.00 |                       |          | \$3,000.00   | 21000 -    |

Over 25000

f Formula

Compute a value in each record based on other fields in the same record. Learn more

Formula Formatting

IF({Total Income}>25000,"Over","-")

+ Add description Cancel Save

Formula field using the “IF” function with “Total Income” as input parameter.

Create...

Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

3 records Sum \$63,000.00 Sum \$13,000.00 Sum 76000

\*\*\*<https://emojipedia.org/>

The screenshot shows a software interface for managing employee data. The main view displays a grid of employees with columns for Name, Salary, Email (from Assignee), Overtime, Total Income, and a calculated field Over 25000. The Over 25000 column uses a formula to determine if an employee's total income is over 25,000. A formula editor is open, showing the IF function being used with the Total Income field as the input parameter. The formula is IF({Total Income}>25000,"Over","-"). The output of this formula is displayed in the Over 25000 column. The interface includes various navigation and configuration options like Views, Grid view, and a sidebar for creating new sections.

# **Understanding Views**

All changes saved

## To Do List

Tasks People +

Find a view

- Priority Rated
- By date
- Completed Tasks
- Kanban by Priority**

Add a view: Grid Form Calendar Gallery Kanban

Sort Color ...

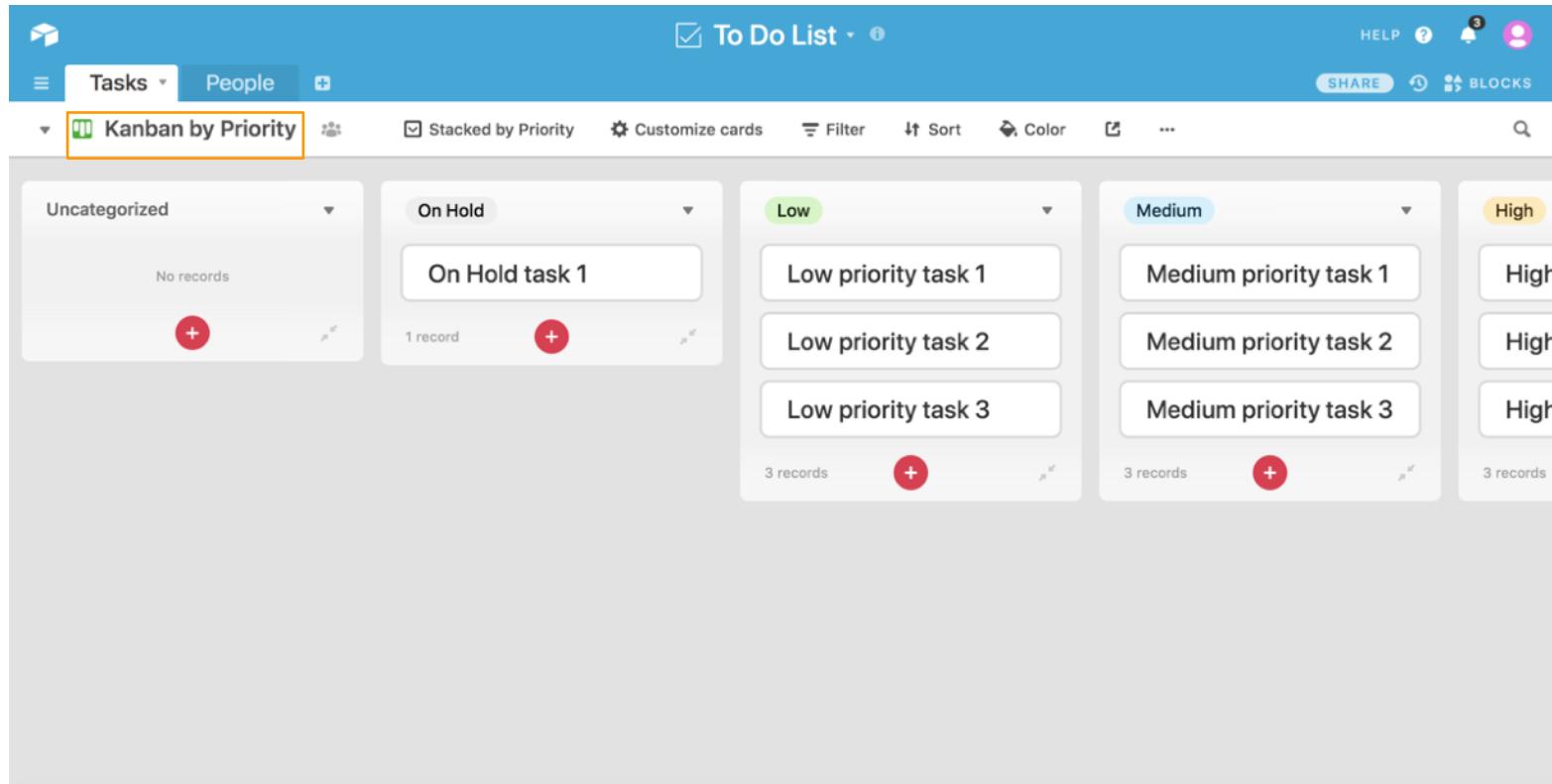
| Priority | Task Description       | Priority |
|----------|------------------------|----------|
| Medium   | Priority task 1        | Medium   |
| Medium   | Priority task 2        | Medium   |
| Medium   | Priority task 3        | Medium   |
| High     | Medium priority task 1 | High     |
| High     | Medium priority task 2 | High     |
| High     | Medium priority task 3 | High     |

3 records + 3 records +

SHARE ⌂ BLOCKS 🔍

HELP ? 3 🚙

The application interface includes a top navigation bar with 'All changes saved', a title 'To Do List', and user status indicators. Below the title is a search bar and a 'Find a view' input field. A sidebar on the left lists view options: 'Priority Rated', 'By date', 'Completed Tasks', and 'Kanban by Priority' (which is highlighted with an orange border). At the bottom of the sidebar are buttons for 'Add a view' and several other view types: Grid, Form, Calendar, Gallery, and Kanban. The main area displays a Kanban board with three columns. The first column is labeled 'Medium' and contains three tasks: 'Priority task 1', 'Priority task 2', and 'Priority task 3'. The second column is also labeled 'Medium' and contains three tasks: 'Medium priority task 1', 'Medium priority task 2', and 'Medium priority task 3'. The third column is labeled 'High' and contains three tasks: 'Priority task 1', 'Priority task 2', and 'Priority task 3'. Each task card has a red '+' button at the bottom right. The application also features a 'Sort' and 'Color' filter at the top of the board area.



To Do List

Tasks People +

Find a view

- Priority Rated
- By date
- Completed Tasks
- Kanban by Priority

Add a view: Grid Form Calendar Gallery Kanban

**Form view**  
Create a shareable form that populates records in your table. Send anyone the form for them to fill out.

Sort Color ...

| Priority | Task Description       | Priority |
|----------|------------------------|----------|
| Medium   | Priority task 1        | Medium   |
| Medium   | Priority task 2        | Medium   |
| Medium   | Priority task 3        | Medium   |
| High     | Medium priority task 1 | High     |
| High     | Medium priority task 2 | High     |
| High     | Medium priority task 3 | High     |

3 records 3 records

SHARE ? BLOCKS

HELP ? 3

To Do List • ⓘ

HELP ? 🔍 3 📲

SHARE ⏪ BLOCKS

Tasks People +

Form for Entering Tasks

Fields remove all

Drag and drop fields here to hide

+ Add a field to this table

Add a cover image

Add a logo

**Form**

Add a description for this form

Name

All changes saved

To Do List • 0

HELP 🔎 🔍 3 🔍

SHARE 📁 84 BLOCKS

Tasks People +

Form for Entering Tasks 📈 Share form Open form ...

Fields remove all

Drag and drop fields here to hide

+ Add a field to this table

Attachments

Attach file

Drop files here

People involved

+ Add

Submit

This image shows a digital form interface. At the top, there's a header bar with 'All changes saved', the title 'To Do List' with a checkmark, and various user and help icons. Below the header, the main title is 'Form for Entering Tasks'. There are buttons for 'Share form' (highlighted in pink), 'Open form', and three dots. On the left, a sidebar labeled 'Fields' has a 'remove all' link and a note to 'Drag and drop fields here to hide'. It also has a '+ Add a field to this table' button. The main area contains a large dashed rectangle placeholder for fields. Inside this area, there's a box labeled 'Attachments' with 'Attach file' and 'Drop files here' buttons. Below that is a section for 'People involved' with a '+ Add' button. At the bottom, there's a large blue 'Submit' button.

All changes saved

## To Do List

Tasks People

Form for Entering Tasks

SHARE BLOCKS

Fields remove all add all

Attachments

Drag and drop fields here to hide

+ Add a field to this table

Completed

People involved

+ Add

Submit

Create your own form with Airtable

 To Do List 3

HELP 🔎 3 BLOCKS

Tasks People +

Form for Entering Tasks Share form Open form ...

Fields remove all add all

**Attachments** ⋮

**Completed** ⋮

Drag and drop fields here to hide

Show Airtable branding

Redirect to URL after the form is submitted

+ Add a field to this table

After the form is submitted:

Show this message

Thank you for submitting the form!

Show a "Submit another response" button

Show a new blank form after 5 seconds

Email me at bsysin@gmail.com

 To Do List • 0

HELP ? 3 🔍 🚫

Tasks People +

Form for Entering Tasks

Share form Open form ...

Fields remove all add all

Attachments

Completed

Drag and drop fields here to hide

+ Add a field to this table

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, "Form for Entering Tasks".

<https://airtable.com/shr14nbfjh7MIJREg>

Restrict access with a password ⓘ  
 Restrict access to an email domain ⓘ

Embed this form on your site

Disable shared view link

Show a "Submit another response" button (selected)

Show a new blank form after 5 seconds

Email me at bsysin@gmail.com

## Form for Entering Tasks

Comments

Name

Date

Priority

0

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### CATEGORIES

- Featured
- Content production
- Creative
- Event Planning
- Everyday Life
- Groups, Clubs & Hobbies
- HR & Recruiting
- Legal
- Local Business
- Marketing

## Event Planning →



### Event planning

Even the most organized and experienced event planner can get overwhelmed by managing events....



### Event marketing

Hosting events is one of the best ways to engage customers. Use this template to plan meetups, dinners, webinars, an...



### Nonprofit Gala

Venues, schedules, speakers—there's a lot that goes in to pulling off a successful event. This template will he...

## Everyday Life →



### Restaurant Field Guide

For the foodie, an easy way to organize restaurants and reservations. List the



### Pet Medical History

Whether you identify as a cat person, or a dog person, or a guinea pig or snake



### Apartment Hunting

Where was that place? How much was it? Did it include parking? Pets? What's

## Templates

Use these starter bases to get a jump start on your project. For inspiration from community-published bases, check out Universe.



Search templates

### CATEGORIES

- Featured
- Content production
- Creative
- Event Planning
- Everyday Life
- Groups, Clubs & Hobbies
- HR & Recruiting
- Legal
- Local Business
- Marketing

# Event planning

[Use template](#)

### #EVENT PLANNING

Even the most organized and experienced event planner can get overwhelmed by managing events. Successful event planning requires juggling and coordinating many moving parts at a time—from securing the event locations to planning the budget to finalizing the speaker schedule. Most event management software, however, is too rigid to keep up with the fast-paced world of event management.

This event planning template helps you organize all of those important details in one place so you can ensure that everything runs according to plan, whether you're managing corporate events, large scale events like trade shows or conferences, special events like weddings or small-scale social events like family get-togethers. And by creating different views, everyone on your team, from the event manager to the catering manager to the audio-visual equipment team, can see exactly what matters to them, and ignore the rest.

All changes saved

## Event planning

SCHEDULE Event locations Topics & themes Speakers & attendees Event staff Sponsors HELP ? 🔔 3 🚙 BLOCKS

Full schedule Hide fields Filter Group Sorted by 2 fields Color ...

|    | Activity  | Start              | End                | Notes  | Location                | Speakers    |
|----|---|--------------------|--------------------|--|-------------------------|-------------|
| 1  | Welcome breakfast                                       | 15/11/2019 8:00am  | 15/11/2019 9:00am  |  | President's dining hall |             |
| 2  | Opening remarks (Friday)                                | 15/11/2019 9:00am  | 15/11/2019 9:25am  | Katina is subbing in for Russell, because... | Grand ballroom          | Katina F    |
| 3  | Morning keynote (Friday)                                | 15/11/2019 9:30am  | 15/11/2019 10:15am |  | Grand ballroom          | Matthew     |
| 4  | Technology in the household                             | 15/11/2019 10:30am | 15/11/2019 11:20am |  | Pearl room              | Stephan     |
| 5  | How to make all your devices play nice                  | 15/11/2019 10:30am | 15/11/2019 11:20am | This session will be led by Deepa            | Ruby room               | Deepa V     |
| 6  | Building an alert system that works for everyone        | 15/11/2019 10:30am | 15/11/2019 11:20am |  | Sapphire room           | Clara R     |
| 7  | Workshop for security professionals                     | 15/11/2019 11:30am | 15/11/2019 12:00pm |  | Jade room               | Garnet room |
| 8  | Workshop for security novices                           | 15/11/2019 11:30am | 15/11/2019 12:00pm |  | Emerald room            |             |
| 9  | Lunch (Friday)  | 15/11/2019 12:15pm | 15/11/2019 1:30pm  | We'll have vegetarian and pescatarian f...   | President's dining hall |             |
| 10 | Security for all ages — babies, grandparents, and more! | 15/11/2019 1:30pm  | 15/11/2019 2:20pm  | Belinda's going to need a projector for ...  | Jade room               | Garnet room |
| 11 | Which security solution is best for you?                | 15/11/2019 1:30pm  | 15/11/2019 2:20pm  |  | Emerald room            | Stephan     |
| 12 | Breakout session (Friday)                               | 15/11/2019 2:30pm  | 15/11/2019 3:20pm  | Make sure that post-its are available for... | Sapphire room           |             |
| 13 | Breakout presentation (Friday)                          | 15/11/2019 3:30pm  | 15/11/2019 3:55pm  |  | Ruby room               |             |
| 14 | Afternoon keynote (Friday)                              | 15/11/2019 4:00pm  | 15/11/2019 4:50pm  |  | Grand ballroom          | Stephan     |
| 15 | Closing remarks (Friday)                                | 15/11/2019 5:00pm  | 15/11/2019 5:30pm  |  | Grand ballroom          | Katina F    |

29 records

 Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors ⚙️ + SHARE ⚙️ BLOCKS

Find a view

✓ Full schedule

- Calendar
- Friday schedule (11/15) Calendar
- Saturday schedule (11/16)

Add a view: Grid Form Calendar Gallery Kanban

|    | Color   | Notes  | Location                | Speakers                                     |                         |
|----|---|--|-------------------------|--|-------------------------|
| 1  |   |  | President's dining hall |  |                         |
| 2  |   | Katina is subbing in for Russell, because... | Grand ballroom          | Katina F...                                  |                         |
| 3  |   |  | Grand ballroom          | Matthew...                                   |                         |
| 4  |   |  | Pearl room              | Stephan...                                   |                         |
| 5  |   | This session will be led by Deepa            | Ruby room               | Deepa V...                                   |                         |
| 6  |   |  | Sapphire room           | Clara Ro...                                  |                         |
| 7  |   |  | Jade room               | Garnet roo...                                |                         |
| 8  | Workshop for security novices                           | 15/11/2019 11:30am                           | 15/11/2019 12:00pm      | Emerald room                                 |                         |
| 9  | Lunch (Friday)  | 15/11/2019 12:15pm                           | 15/11/2019 1:30pm       | We'll have vegetarian and pescatarian f...   | President's dining hall |
| 10 | Security for all ages — babies, grandparents, and more! | 15/11/2019 1:30pm                            | 15/11/2019 2:20pm       | Belinda's going to need a projector for ...  | Jade room               |
| 11 | Which security solution is best for you?                | 15/11/2019 1:30pm                            | 15/11/2019 2:20pm       |  | Emerald room            |
| 12 | Breakout session (Friday)                               | 15/11/2019 2:30pm                            | 15/11/2019 3:20pm       | Make sure that post-its are available for... | Sapphire room           |
| 13 | Breakout presentation (Friday)                          | 15/11/2019 3:30pm                            | 15/11/2019 3:55pm       |  | Ruby room               |
| 14 | Afternoon keynote (Friday)                              | 15/11/2019 4:00pm                            | 15/11/2019 4:50pm       |  | Grand ballroom          |
| 15 | Closing remarks (Friday)                                | 15/11/2019 5:00pm                            | 15/11/2019 5:30pm       |  | Katina F...             |

 03 Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors [SHARE](#) [BLOCKS](#)

Calendar Using "Start" field Filter Sort Color ...

Today < > November 2019 Month 2 week Week 3 day Day Find a record All records

| Mon | Tue | Wed | Thu | Fri                                  | Sat                           | Sun |
|-----|-----|-----|-----|--------------------------------------|-------------------------------|-----|
| 28  | 29  | 30  | 31  | 1                                    | 2                             | 3   |
| 4   | 5   | 6   | 7   | 8                                    | 9                             | 10  |
| 11  | 12  | 13  | 14  | 15<br>8 Welcome break...<br>+15 more | 16<br>8 Breakfast<br>+12 more | 17  |
| 18  | 19  | 20  | 21  | 22                                   | 23                            | 24  |
| 25  | 26  | 27  | 28  | 29                                   | 30                            | 1   |

Welcome breakfast Nov 15 8:00am

Opening remarks (Friday) Nov 15 9:00am

Morning keynote (Friday) Nov 15 9:30am

Technology in the house... Nov 15 10:30am

How to make all your devi... Nov 15 10:30am

Building an alert system th... Nov 15 10:30am +

Workshop for security pro...

**03 Event planning**

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors HELP ? 🔍 3 🔔 🔑

All spaces Hide fields Filter Group Sort Color ...

|   | Space name              | Building location       | Photo(s) | Description  | Max capacity | Scheduled events  |
|---|-------------------------|-------------------------|----------|--|--------------|---|
| 1 | President's dining hall | 28 Conference Hall Lane |          | Dining hall for meals and a large open space for mingling / general events   | 350          | Happy hour & networking Lunch (Saturday) Breakfast  |
| 2 | Grand ballroom          | 20 Organization Way     |          | Large ballroom that can seat up to 1000 people at max capacity; contains a large stage with professional audio and lighting set up | 1000         | Closing remarks (Saturday) Afternoon keynote (Saturday) Morning keynote (Saturday) Opening remarks (Saturday) Afternoon keynote (Friday) Morning keynote (Friday) |
| 3 | Pearl room              | 25 Conference Hall Lane |          | Conference room that can hold up to 250 people   | 250          | The successes of home security technology Technology  |
| 4 | Ruby room               | 25 Conference Hall Lane |          | Conference room that can hold up to 100 people   | 100          | Breakout presentation (Saturday) Breakout presentation Building a safer community How to make all your c  |
| 5 | Sapphire room           | 25 Conference Hall Lane |          | Conference room that can hold up to 150 people   | 150          | Breakout session (Saturday) Breakout session (Friday) Building an alert system that works for everyone  |
| 6 | Emerald room            | 12 Organization Way     |          | Conference room with open air patio  | 400          | Best practices for IoT protocols Which security so  |

8 records Sum 2950

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

Find a view

- All spaces
- Spaces per building
- Location gallery**

Add a view: Grid Form Calendar Gallery Kanban

**Location gallery**

| Room          | BUILDING LOCATION       | MAX CAPACITY |
|---------------|-------------------------|--------------|
| Sapphire room | 25 Conference Hall Lane | 150          |
| Emerald room  | 12 Organization Way     | 400          |
| Garnet room   | 12 Organization Way     | 500          |
| Ruby room     | 25 Conference Hall Lane | 100          |
| Jade room     | 12 Organization Way     | 200          |

**Sapphire room**  
BUILDING LOCATION  
25 Conference Hall Lane  
MAX CAPACITY  
150

**Emerald room**  
BUILDING LOCATION  
12 Organization Way  
MAX CAPACITY  
400

**Garnet room**  
BUILDING LOCATION  
12 Organization Way  
MAX CAPACITY  
500

**Ruby room**  
BUILDING LOCATION  
25 Conference Hall Lane  
MAX CAPACITY  
100

**Jade room**  
BUILDING LOCATION  
12 Organization Way  
MAX CAPACITY  
200

+

03 Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

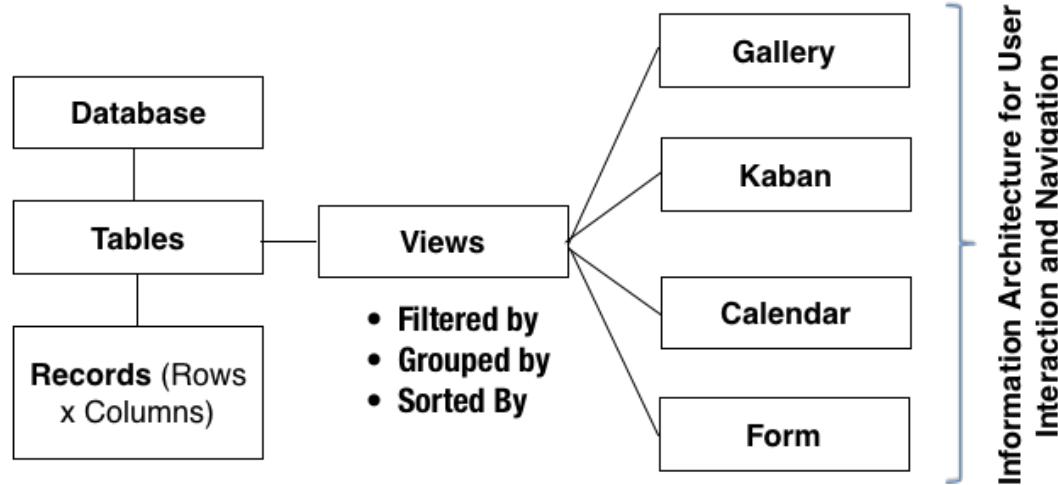
Location gallery Customize cards Filter Sort Color ...

|   |   |  |   |
|---|---|--|---|
| <b>President's dining hall</b><br>A BUILDING LOCATION<br>28 Conference Hall Lane<br><br>MAX CAPACITY<br>350 | <b>Grand ballroom</b><br>A BUILDING LOCATION<br>20 Organization Way<br><br>MAX CAPACITY<br>1000 | <b>Pearl room</b><br>A BUILDING LOCATION<br>25 Conference Hall Lane<br><br>MAX CAPACITY<br>250 | <b>Ruby room</b><br>A BUILDING LOCATION<br>25 Conference Hall Lane<br><br>MAX CAPACITY<br>100 |
|                            |                |              |            |
| <b>Sapphire room</b><br>A BUILDING LOCATION<br>25 Conference Hall Lane<br><br>MAX CAPACITY<br>150           | <b>Emerald room</b><br>A BUILDING LOCATION<br>12 Organization Way<br><br>MAX CAPACITY<br>400    | <b>Garnet room</b><br>A BUILDING LOCATION<br>12 Organization Way<br><br>MAX CAPACITY<br>500    | <b>Jade room</b><br>A BUILDING LOCATION<br>12 Organization Way<br><br>MAX CAPACITY<br>200     |

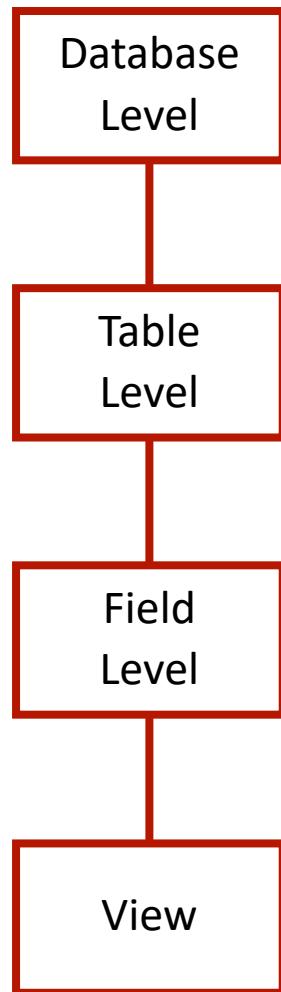
+ 

- 1. Grid**
- 2. Kanban**
- 3. Calendar**
- 4. Gallery**
- 5. Form**

Use **views** to present and capture data in a variety of way to suit different needs.



# **Collaboration and Data Security**



# **Security and Access Control Levels**

The screenshot shows a database application interface with a blue header bar. The header includes navigation links like 'To Do List', 'Data', 'Automations', 'Interfaces', and a 'Share' button which is highlighted with a red box. Below the header is a toolbar with icons for 'Tasks', 'People', 'Confidential', 'Add or import', 'Views', 'Main View', 'Filter', 'Group', 'Sort', 'Color', 'Share view', and a search icon.

The main area displays a grid view of data. The columns are labeled 'Staff', 'Tasks', 'Education Level', 'Join Da...', 'Email', and 'Confidential'. The data rows are:

|   | Staff      | Tasks         | Education Level | Join Da... | Email | Confidential |
|---|------------|---------------|-----------------|------------|-------|--------------|
| 1 | Amy        | Urgent task 3 |                 |            |       | Amy          |
| 2 | Andy       |               |                 |            |       | Andy         |
| 3 | Brad       | Urgent task 1 |                 |            |       | Brad         |
| 4 | Clare      |               |                 |            |       |              |
| 5 | Jessica    |               |                 |            |       |              |
| 6 | Rebecca    |               |                 |            |       |              |
|   | + [Create] |               |                 |            |       |              |

On the left side, there is a sidebar with a 'Create...' button and several options: Grid, Form, Calendar, Gallery, Kanban, Timeline (Pro), Gantt (Pro), and New section (Pro). At the bottom of the sidebar, there is a '6 records' indicator and a 'Add...' button.

**Database level control - apply to all tables and fields.**

To Do List Data Automations Interfaces

Tasks People Confidentials + Add or import Views Main View Hide fields Filter Group Sort Color Share view Find a view

|   | Staff   | Tasks         | Education Level | Join Da... | Email | Confidential |  |
|---|---------|---------------|-----------------|------------|-------|--------------|--|
| 1 | Amy     | Urgent task 3 |                 |            |       | Amy          |  |
| 2 | Andy    |               |                 |            |       | Andy         |  |
| 3 | Brad    | Urgent task 1 |                 |            |       | Brad         |  |
| 4 | Clare   |               |                 |            |       |              |  |
| 5 | Jessica |               |                 |            |       |              |  |
| 6 | Rebecca |               |                 |            |       |              |  |
| + |         |               |                 |            |       |              |  |

Share "To Do List"

Email invite Create link Share publicly

Invite by email... Creator Invite

Add a message... (recommended)

Invite to Workshop workspace

Base All records

View 6 records

Shared with Sup Port Manage

Create... Grid Form Calendar Gallery Kanban Timeline Pro Gantt Pro New section Pro

+ Add... 6 records

**Database level control - apply to all tables and fields.**

To Do List Data Automations Interfaces

Tasks People Confidentials Add or import

Views Main View Hide fields Filter Group Sort Color Share view

Find a view

Main View

|             | Staff   | Tasks         | Education Level | Join Da... | Email | Confidential |  |
|-------------|---------|---------------|-----------------|------------|-------|--------------|--|
| 1           | Amy     | Urgent task 3 |                 |            |       | Amy          |  |
| 2           | Andy    |               |                 |            |       | Andy         |  |
| 3           | Brad    | Urgent task 1 |                 |            |       | Brad         |  |
| 4           | Clare   |               |                 |            |       |              |  |
| 5           | Jessica |               |                 |            |       |              |  |
| 6           | Rebecca |               |                 |            |       |              |  |
| + Create... |         |               |                 |            |       |              |  |

Base All records

View 6 records

Invite by email... Add a message... (recommended)  Invite to Workshop workspace

Shared with Sup Port Manage

Share "To Do List"

Email invite Create link Share publicly

Creator Can fully configure and edit this base

Editor Can edit records and views, but cannot configure tables or fields

Commenter Can comment on records

Read only Cannot edit or comment

Database level control - apply to all tables and fields.

+

Add...

6 records

To Do List II Data Automations Interfaces Help Notifications Share

Tasks People Confidentials Add or import Hide fields Filter Grouped by 2 fields Sort Color Share view

Import data Rename table Manage fields Duplicate table Edit table description Edit table permissions Delete table

Grid Form Calendar Gallery Kanban Timeline Gantt New section

A Name Date Priority People involved Comments Attachments

PRIORITY Urgent Count 3

|   | Name          | Date | Priority | Comments | Attachments |
|---|---------------|------|----------|----------|-------------|
| 1 | Urgent task 1 |      | Urgent   | Brad     |             |
| 2 | Urgent task 2 |      | Urgent   |          |             |
| 3 | Urgent task 3 |      | Urgent   | Amy      |             |

PRIORITY High Count 3

|   | Name                 | Date | Priority | Comments | Attachments |
|---|----------------------|------|----------|----------|-------------|
| 4 | High priority task 1 |      | High     |          |             |
| 5 | High priority task 2 |      | High     |          |             |
| 6 | High priority task 3 |      | High     |          |             |

PRIORITY Medium Count 3

|   | Name                   | Date | Priority | Comments | Attachments |
|---|------------------------|------|----------|----------|-------------|
| 7 | Medium priority task 1 |      | Medium   |          |             |
| 8 | Medium priority task 2 |      | Medium   |          |             |
| 9 | Medium priority task 3 |      | Medium   |          |             |

+ Add... 13 records

Extensions Tools

# Table level control - apply to individual table.

To Do List II Data Automations Interfaces Help Notifications Share

Tasks People Confidentials Add or import Views Priority Rated Filter Grouped by 2 fields Sort Color Share view Extensions Tools

Find a view Priority Rated By date Completed Tasks Kanban by Priority

Create... Grid Form Calendar Gallery Kanban Timeline Gantt New section

Table permissions

Limit who can create and delete records in Tasks

Who can create records?

- Creators and up
- Editors and up
- Allow records to be created through forms
- Allow records to be created by automations

Who can delete records?

- Creators and up
- Specific users
- Nobody

PRIORITY

Urgent

Count 3

COMPLETED

1 Urgent task 1

2 Urgent task 2

3 Urgent task 3

High priority task 1

High priority task 2

High priority task 3

Medium priority task 1

Medium priority task 2

Medium priority task 3

Add... 13 records

# Table level control - apply to individual table.

To Do List II

Data Automations Interfaces

Tasks People Confidentials + Add or import

Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view

Find a view

Priority Rated (selected)

By date

Completed Tasks

Kanban by Priority

Create... Grid Form Calendar Gallery Kanban Timeline Gantt New section

Priority Rated

Urgent

Count 3

COMPLETED

1 Urgent task 1

2 Urgent task 2

3 Urgent task 3

+ High

COMPLETED

4 High priority task 1

5 High priority task 2

6 High priority task 3

+ Medium

COMPLETED

7 Medium priority task 1

8 Medium priority task 2

9 Medium priority task 3

+ Add... 13 records

Table permissions

Limit who can create and delete records in Tasks

Who can create records?

Allow records to be created through forms (checked)

Allow records to be created by automations (checked)

Who can delete records?

Creators and up

Editors and up

Collaborators with Editor, Creator, or Owner permissions (default setting)

Creators and up

Collaborators with Creator or Owner permissions

Specific users

A specific list of collaborators with Editor, Creator, or Owner permissions

Nobody

No collaborators

Table level control - apply to individual table.

To Do List II Data Automations Interfaces

Tasks People Confidentials + Add or import

Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view

Find a view

Priority Rated ✓

Priority Rated Complete Urgent

1 Urgent

2 Urgent

3 Urgent

+ Urgent

Priority Rated Complete High

4 High

5 High

6 High

+ High

Priority Rated Complete Medium

7 Medium priority task 1

8 Medium priority task 2

9 Medium priority task 3

+ Medium priority task 4

Add... 13 records

A Name

- Customize field type
- Rename field
- Duplicate field
- Insert left
- Insert right
- Copy field URL
- Edit field description
- Edit field permissions**
- Sort A → Z
- Sort Z → A
- Filter by this field
- Group by this field
- Show dependencies
- Hide field
- Delete field

Extensions Tools

**Field level control - apply to individual field.**

The screenshot shows a project management interface with a sidebar containing various views and a main grid displaying tasks categorized by priority (Urgent, High, Medium). A context menu is open over a 'Name' field in the grid. The menu items include: Customize field type, Rename field, Duplicate field, Insert left, Insert right, Copy field URL, Edit field description, **Edit field permissions**, Sort A → Z, Sort Z → A, Filter by this field, Group by this field, Show dependencies, Hide field, and Delete field. The 'Edit field permissions' option is highlighted with a red box, indicating it is the focus of the feature being demonstrated.

To Do List II

Data Automations Interfaces

Tasks People Confidentials + Add or import

Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view

Find a view

Priority Rated ✓

By date

Completed Tasks

Kanban by Priority

Create... Grid Form Calendar Gallery Kanban Timeline Gantt New section

A Name C... Date Prior... People involved Comments Attachments

PRIORITY

Urgent Count 3

COMPLETED

1 Urgent task 1 Urgent Brad

2 Urgent task 2 Urgent

3 Urgent task 3

+ Priority

High Count 3

COMPLETED

4 High priority task 1

5 High priority task 2

6 High priority task 3

+ Priority

Medium Count 3

COMPLETED

7 Medium priority task 1 Medium

8 Medium priority task 2 Medium

9 Medium priority task 3 Medium

+ Add... 43 records

Field permissions

Limit who can edit values in Name

Who can edit values in this field?

Editors and up

Collaborators with Editor, Creator, or Owner permissions (default setting)

Creators and up

Collaborators with Creator or Owner permissions

Specific users

A specific list of collaborators with Editor, Creator, or Owner permissions

Nobody

No collaborators

Field level control - apply to individual field.

The screenshot shows a Notion database with three sections: Urgent (3 items), High (3 items), and Medium (3 items). The High section is currently selected. A modal window titled "Field permissions" is open, focusing on the "Name" field. It lists four permission levels: "Editors and up", "Creators and up" (which is highlighted with a red box), "Specific users", and "Nobody".

**To Do List II** Data Automations Interfaces

Tasks People Confidentials Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share

Extensions

Find a view

Priority Rated

By date

Completed Tasks

Kanban by Priority

**View level control - apply to individual view.**

Share view

Create a shareable grid view link  
You can send the link to anyone or embed it on a website

Create a form view  
Forms can be sent or embedded on a website for anyone to fill out

| Name                   | PRIORITY | COMPLETED | Count |
|------------------------|----------|-----------|-------|
| Urgent task 1          | Urgent   | 3         | 3     |
| Urgent task 2          | Urgent   | 3         | 3     |
| Urgent task 3          | Urgent   | 3         | 3     |
| High priority task 1   | High     | 3         | 3     |
| High priority task 2   | High     | 3         | 3     |
| High priority task 3   | High     | 3         | 3     |
| Medium priority task 1 | Medium   | 3         | 3     |
| Medium priority task 2 | Medium   | 3         | 3     |

Grid Form Calendar Gallery Kanban Timeline Gantt

13 records

Priority Rated

Urgent

Completed

Count 3

Urgent task 1

Urgent task 2

Urgent task 3

High

Completed

Count 3

High priority task 1

High priority task 2

High priority task 3

Medium

Completed

Count 3

Medium priority task 1

Medium priority task 2

Share view

Create a shareable grid view link  
You can send the link to anyone or embed it on a website

Create a form view  
Forms can be sent or embedded on a website for anyone to fill out

Priority

Urgent

High

Medium

Completed

Count 3

Urgent task 1

Urgent task 2

Urgent task 3

High priority task 1

High priority task 2

High priority task 3

Medium priority task 1

Medium priority task 2

Completed

Count 3

Medium priority task 1

Medium priority task 2

**To Do List II** Data Automations Interfaces

Tasks People Confidentials Views Priority Rated Hide fields Filter Grouped by 2 fields Sort Color Share view Find a view Priority Rated By date Completed Tasks Kanban by Priority

**View level control - apply to individual view.**

This view is shared via a private link  
People with the private link can only see cells visible in this view. The title of this page is the view name, "Priority Rated".  
<https://airtable.com/shreu1GL9KEluVyWm>

- Allow viewers to copy data out of this view
- Allow data in this view to be synced to other bases
- Show all fields in expanded records
- Restrict access with a password
- Restrict access to an email domain

Sync this view to another base  
Embed this view on your site  
Disable shared view link

Create a form view  
Forms can be sent or embedded on a website for anyone to fill out

Grid Form Calendar Gallery Kanban Timeline Gantt

| PRIORITY | Name                   | Count |
|----------|------------------------|-------|
| Urgent   | Urgent task 1          | 3     |
| Urgent   | Urgent task 2          | 3     |
| Urgent   | Urgent task 3          | 3     |
| High     | High priority task 1   | 3     |
| High     | High priority task 2   | 3     |
| High     | High priority task 3   | 3     |
| Medium   | Medium priority task 1 | 3     |
| Medium   | Medium priority task 2 | 3     |

13 records

To Do List II Data Automations Interfaces

Tasks People Confidentials Views Grid view Find a view Grid view

Name Amy Notes Assignee Status Legal Documents Education Level (from Assignee) Join Date (from Assignee) Salary Email (from Assignee)

Activity \$ is following this. You have 1 year of revision history. You commented Check the overtime.

Comment

**Adding comments to record.**

To Do List II

Data Automations Interfaces

Tasks People Confidentials

Views Grid view Hide fields Filter Group Sort Color Share view

Find a view

Grid view

Name No As: St Le E... Join Date (from Assignee) Salary Email (from Assignee)

|   | Name | No | As: | St | Le | E... | Join Date (from Assignee) | Salary      | Email (from Assignee) |
|---|------|----|-----|----|----|------|---------------------------|-------------|-----------------------|
| 1 | Amy  |    |     |    |    |      |                           | \$20,000.00 |                       |
| 2 |      |    |     |    |    |      |                           | \$25,000.00 |                       |
| 3 |      |    |     |    |    |      |                           | \$18,000.00 |                       |

Click to expand and see 1 record comment.

Expand record to see comments.

Create...

Grid Form Calendar Gallery Kanban Timeline Gantt

3 records Sum \$63,000.00

The screenshot shows a Zoho CRM interface with a grid view of employee data. The columns include Name, No, As:, St, Le, E..., Join Date (from Assignee), Salary, and Email (from Assignee). The first row has a tooltip 'Click to expand and see 1 record comment.' pointing to it. A large overlay text 'Expand record to see comments.' covers the bottom left of the grid. The sidebar on the left shows options like Create..., Grid, Form, etc.

**Thank you!**