



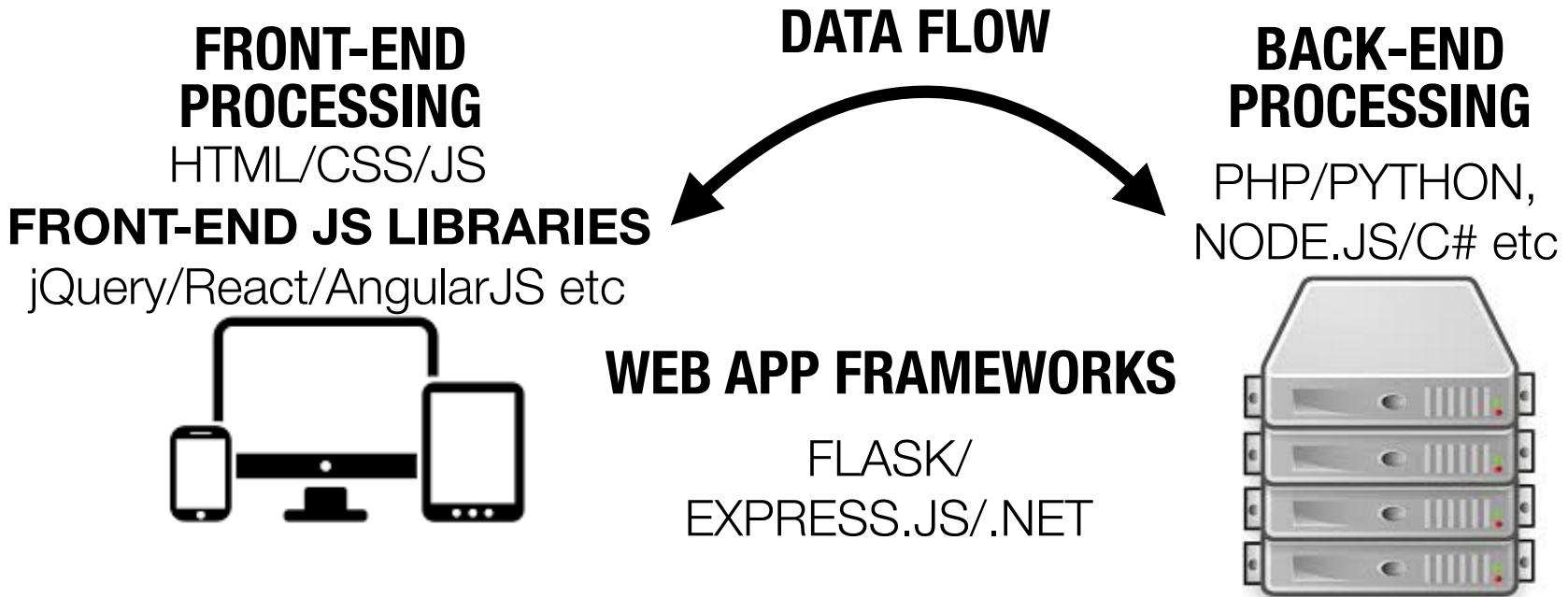
Source:Jose Aragones

Integrated Data-Driven Story Telling: Lesson 2 - Basic Setup of a Cloud Database

Today's Agenda

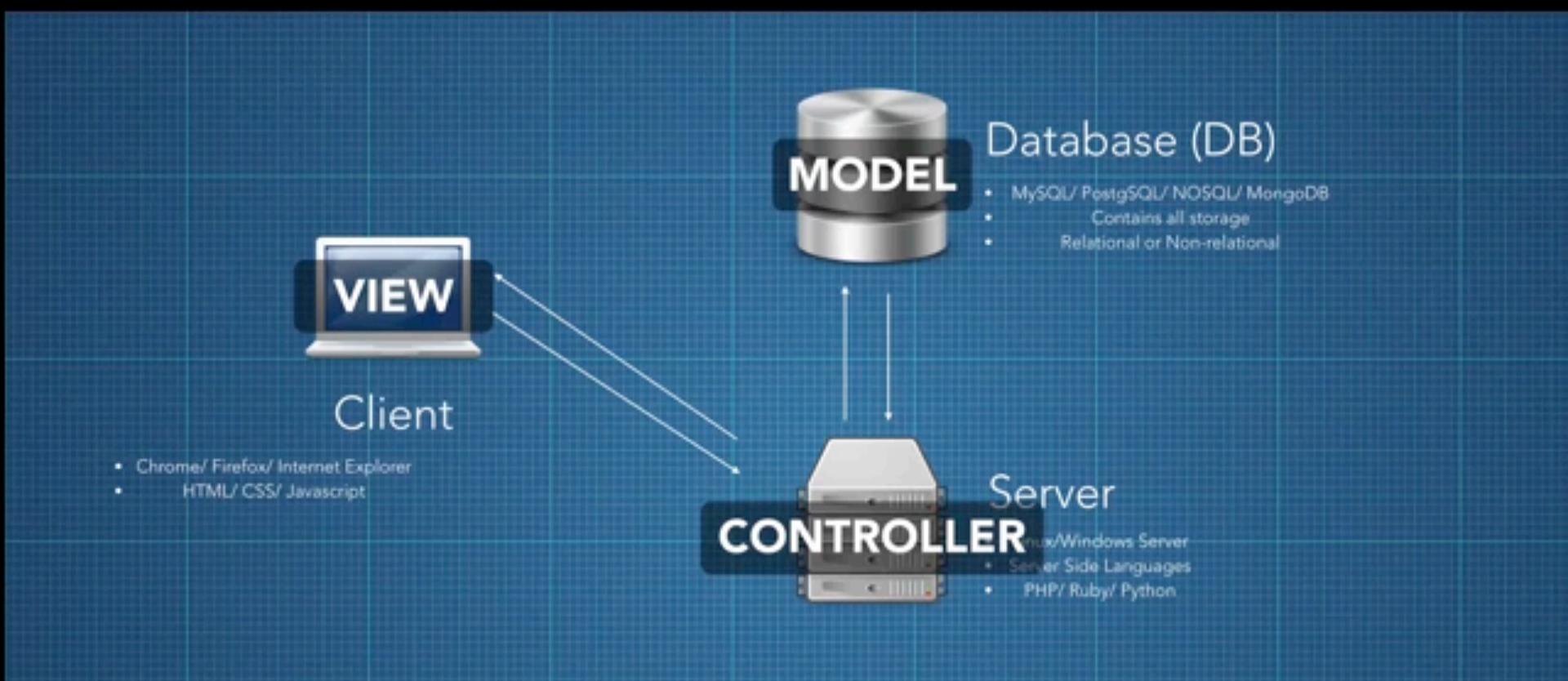
- 1. Installation of the LAMP stack using MAMP**
- 2. Installation of Jupyter Notebook**
- 3. Short demonstration of MySQL CRUD operations
in phpMyAdmin and Jupiter Notebook**
- 4. Setup and basic operations of Airtable**
- 5. The Airtable API**

POPULAR FULL STACK FRAMEWORK FOR SOFTWARE DEVELOPMENT



Which functions should be processed on the front-end and which should be on the back-end?

HOW DOES A WEBSITE WORK? THE FLOW



LAMP

✓ **(L)**inux ✓ **(M)**ongoDB
✓ **(A)**pache ✓ **(E)**xpress
✓ **(M)**ySQL ✓ **(A)**ngularJS
✓ **(P)**HP ✓ **(N)**odeJS

MEAN

MERN

✓ **(M)**ongoDB ✓ **(M)**ongoDB
✓ **(E)**xpress ✓ **(F)**lask
✓ **(M)**ySQL ✓ **(R)**eact
✓ **(N)**odeJS ✓ **D(O)**cker

FORM

RDFM

✓ **(R)**eact
✓ **(D)**3
✓ **(F)**lask
✓ **(M)**ySQL (Airtable)

Digital Infrastructure for Platform Development

云计算的三层架构

(Full Stack Developer
由全栈工程到全栈创业)



Software (软件)
e.g. Your app



Platform (平台)

e.g. Google App Engine/AWS Fargate/PythonAnywhere



Infrastructure(基建)

e.g. Amazon, Azure, Aliyun

Public(公共)/Private(私人)/Hybrid Clouds(混合)

API (e.g. RestFUL)



BACK-END TECHNOLOGY

后台

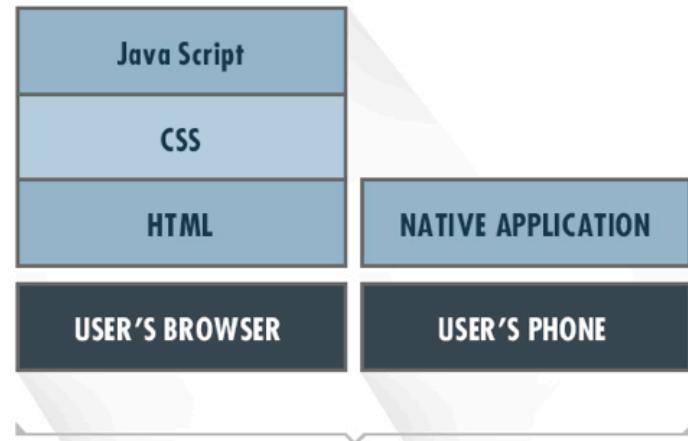
WHAT IS YOUR “CLOUD” AND “STACK” STRATEGY?

云架构及前端和后端的全栈策略

{ JSON }



THE INTERNET



FRONT-END TECHNOLOGY

前台

Platform and API Growth Bring Along More Data for Mining Patterns

**TO UNDERSTAND DATA, WE NEED TO
UNDERSTAND DATABASE**



MAMP PRO MAMP NAMO appdoo More products ▾

Jobs Downloads Support

Download **MAMP & MAMP PRO**



MAMP & MAMP PRO 5.5

macOS 10.10+ & 64-Bit processor (Intel)

Users of version 4 can update at a low price.

MAMP & MAMP PRO 4.1

Windows 7, 8.1, 10

Download **MAMP Viewer**

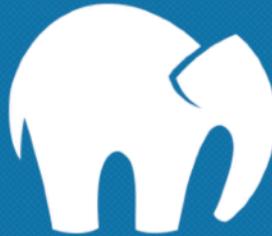


MAMP Viewer

iPhone & iPad — iOS 9.0+

MAMP Viewer

Android 5.0+

[Start](#)[My Website](#)[phpInfo](#)[Tools](#) ▾[FAQ](#)[MAMP Website](#)[Buy MAMP PRO](#)

MAMP PRO 5

New version out now!

[Try Now](#)

PHP

[phpinfo](#) shows the current configuration of PHP.

MySQL

MySQL can be administered with [phpMyAdmin](#).

To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost
Port	3306
User	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock

Examples

[PHP <= 5.5.x](#)[PHP >= 5.6.x](#)[Python](#)[Perl](#)

MAMP Version

3.5 → [Update \(5.2\) available!](#)

News

[MAMP & MAMP PRO 5 out now!](#)

31th July, 2018 – MAMP & MAMP PRO 5 has just been released

Comes with new WordPress features

Snapshots, Grouped Host List, and much more...

[MAMP Cloud Function available now with MAMP 4.4](#)

February, 2018 – MAMP Cloud Function has been released

Work on different machines, move or backup your project data.

MAMP Cloud allows you to save and load your host and database data using a cloud provider, such as Dropbox. You can easily save your host and database data in the cloud and later retrieve it on another Mac, or on the same Mac, when backing up data before making changes on your host.

[BLACK FRIDAY SALE](#)

Setting up MySQL on MAMP

phpMyAdmin

Recent | Favorites

Filter databases by name or

New

- acehub
- BucketList
- campus_prdev
- cellar
- ci
- com5940
- csdemo
- d734_e
- d739
- d744
- d744a
- d750a
- d751_a
- d752a
- d753e
- d753f
- d753g
- d754_e

Server: localhost:3306

Databases SQL Status Users Export Import Settings Replication VariablesCharsets Engines

General Settings

Server connection collation: utf8mb4_unicode_ci

Appearance Settings

Language: English

Theme: Original

Font size: 82%

More settings

Database server

- Server: Localhost via UNIX socket
- Server type: MySQL
- Server version: 5.5.42 - Source distribution
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

Web server

- Apache/2.2.29 (Unix) mod_wsgi/3.5 Python/2.7.10 PHP/5.6.10 mod_ssl/2.2.29 OpenSSL/1.0.2h DAV/2 mod_fastcgi/2.4.5 mod_perl/2.0.9 Perl/v5.22.0
- Database client version: libmysql - mysqldnd 5.0.11-dev - 20120503 - S: 3c686b6bbc30d36a3ec34fdd4b7b5b787fe5555 \$
- PHP extension: mysqli
- PHP version: 5.6.10

phpMyAdmin

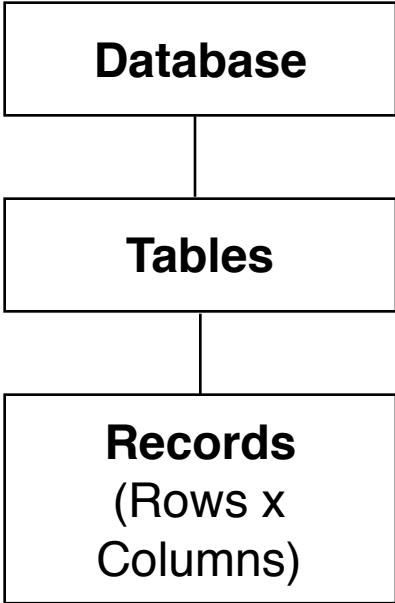
- Version information: 4.4.10
- Documentation
- Wiki
- Official Homepage
- Contribute
- Get support
- List of changes

 phpMyAdmin

WHAT IS A “DATABASE”?

“A **Database** is a computerised system that makes it easy to search, select and store information..”

BBC Website



“A **database** is a collection of **tables** which relate to each other for storing and processing **records** that are defined by rows and columns (**fields**).”

Set Up Database

CREATE DATABASE **databaseName**

DROP DATABASE **databaseName**

SHOW DATABASES

- > CREATE DATABASE southwind;
- > DROP DATABASE southwind;
- > CREATE DATABASE southwind;
- > DROP DATABASE IF EXISTS southwind;
- > CREATE DATABASE IF NOT EXISTS southwind;
- > SHOW DATABASES;
- > USE southwind;

Source: <https://www.wikihow.com/Create-a-Simple-Web-Page-with-HTML>

Set Up Table

```
CREATE TABLE IF NOT EXISTS tableName
SHOW TABLES
```

```
> CREATE TABLE IF NOT EXISTS products (
    productID  INT UNSIGNED NOT NULL AUTO_INCREMENT,
    productCode CHAR(3)      NOT NULL DEFAULT '',
    name        VARCHAR(30)   NOT NULL DEFAULT '',
    quantity    INT UNSIGNED NOT NULL DEFAULT 0,
    price       DECIMAL(7,2)  NOT NULL DEFAULT 99999.99,
    PRIMARY KEY (productID)
);
> SHOW TABLES;
```

THE CRUD OPERATIONS

Insert a Record (C)

INSERT INTO **tableName** VALUES (**firstColumnValue**, ..., **lastColumnValue**)

- > INSERT INTO products VALUES (1001, 'PEN', 'Pen Red', 5000, 1.23);
- > INSERT INTO products VALUES
 (NULL, 'PEN', 'Pen Blue', 8000, 1.25),
 (NULL, 'PEN', 'Pen Black', 2000, 1.25);
- > INSERT INTO products (productCode, name, quantity, price) VALUES
 ('PEC', 'Pencil 2B', 10000, 0.48),
 ('PEC', 'Pencil 2H', 8000, 0.49);
- > INSERT INTO products (productCode, name) VALUES ('PEC', 'Pencil HB');
- > INSERT INTO products values (NULL, NULL, NULL, NULL, NULL);
- > SELECT * FROM products;

Source: <https://www.wikihow.com/Create-a-Simple-Web-Page-with-HTML>

Retrieve a Record (R)

SELECT **columnName**, **column2Name**, ... FROM **tableName** WHERE **criteria**

- > SELECT name, price FROM products; SELECT * FROM products;
- > SELECT name, price FROM products WHERE price < 1.0;
- > SELECT name, price FROM products WHERE productCode = 'PEN';
- > SELECT name, price FROM products WHERE name LIKE 'PENCIL%';
- > SELECT name, price FROM products WHERE name LIKE 'P__ %';
- > SELECT * FROM products WHERE quantity >= 5000 AND name LIKE 'Pen %';
- > SELECT * FROM products WHERE name IN ('Pen Red', 'Pen Black');
- > SELECT * FROM products WHERE (price BETWEEN 1.0 AND 2.0) AND (quantity BETWEEN 1000 AND 2000);
- > SELECT * FROM products WHERE name LIKE 'Pen %' ORDER BY price DESC;
- > SELECT * FROM products ORDER BY price LIMIT 2;

Source: <https://www.wikihow.com/Create-a-Simple-Web-Page-with-HTML>

Retrieve a Record (R)

SELECT **columnName**, **column2Name**, ... FROM **tableName** WHERE **criteria**
GROUP BY **columnName** (collapse multiple records with a common value into groups).

- > SELECT productCode, COUNT(*) FROM products GROUP BY productCode;
- > SELECT productCode, COUNT(*) AS count FROM products
 GROUP BY productCode ORDER BY count DESC;
- > SELECT MAX(price), MIN(price), AVG(price), STD(price), SUM(quantity) FROM products;
- > SELECT productCode, MAX(price) AS 'Highest Price', MIN(price) AS 'Lowest Price'
FROM product GROUP BY productCode;
- > SELECT productCode, MAX(price), MIN(price), CAST(AVG(price) AS DECIMAL(7,2)) AS
'Average', CAST(STD(price) AS DECIMAL(7,2)) AS 'Std Dev', SUM(quantity) FROM
products GROUP BY productCode;
- > SELECT productCode, MAX(price), MIN(price), CAST(AVG(price) AS DECIMAL(7,2)) AS
'Average', SUM(quantity) FROM products GROUP BY prod

Source: <https://www.wikihow.com/Create-a-Simple-Web-Page-with-HTML>

Update a Record (U)

UPDATE **tableName** SET **columnName** = {value|NULL|DEFAULT}, ... WHERE criteria

- > UPDATE products SET price = price * 1.1;
- > UPDATE products SET quantity = quantity - 100 WHERE name = 'Pen Red';
- > UPDATE products SET quantity = quantity + 50, price = 1.23 WHERE name = 'Pen Red';

Delete a Record (D)

DELETE FROM **tableName** WHERE criteria

- > DELETE FROM products WHERE name LIKE 'Pencil%';
- > DELETE FROM products WHERE quantity >= 5000 AND name LIKE 'Pen %';
- > DELETE * FROM products WHERE name IN ('Pen Red', 'Pen Black');
- > DELECT * FROM products WHERE (price BETWEEN 1.0 AND 2.0) AND (quantity BETWEEN 1000 AND 2000);

Lab exercise continues at:

<https://www.dofactory.com/sql/syntax>

MySQL by Examples for Beginners

http://www.ntu.edu.sg/home/ehchua/programming/sql/mysql_beginner.html

INTRODUCTION TO AIR TABLE



Product Blocks Templates Universe Pricing Sign in [Sign up](#)

Create, your way

Part spreadsheet, part database, and entirely flexible, teams use Airtable to organize their work, their way.

Enter your email address

[Get started](#)

Already using Airtable? [Sign in](#)



Tell us a bit about yourself

What will you be using Airtable for?

Select an option ▾

Skip

Continue

14-day pro plan trial ✨

Good news! Your workspace will receive a **14-day free trial** of our **Pro plan**, which includes:

- ✓ Increased record & attachment limits
- ✓ Extended revision & snapshot history
- ✓ Extended functionality with blocks
- ✓ Advanced calendar features
- ✓ Custom branded forms
- ✓ More colors and styling options
- ✓ Personal views

Priority support Not available during trial
And more!



WORKSPACES

My First Workspace

Add a workspace



Please verify your email address by clicking the link sent to
[bernardsuen@hotmail.com](#). [Resend verification email](#)



[Invite your friends and coworkers to earn account credit!](#) [No thanks](#)

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Digital Content Calendar



User Studies



Product Launch



Product Planning



Content Marketing Management



Digital Video Production



Digital Asset Management



Applicant Tracking



Add a base



WORKSPACES

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bernardsuen@hotmail.com. [Resend verification email](#)



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[SHARE](#)

Event Marketing

Digital Content
Calendar

User Studies



Product Launch



Product Planning

Content Marketing
ManagementDigital Video
ProductionDigital Asset
Management

Applicant Tracking



Add a base

- Start with a template
- Import a spreadsheet
- Start from scratch



My First Workspace

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WORKSPACES

My First Workspace

Add a workspace



Event Marketing

Digital Content
Calendar

User Studies



Product Launch



Product Planning

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Advanced linking

What's new

Content Marketing
ManagementDigital Video
ProductionDigital Asset
Management

Applicant Trac



Class Management



Share

Duplicate base

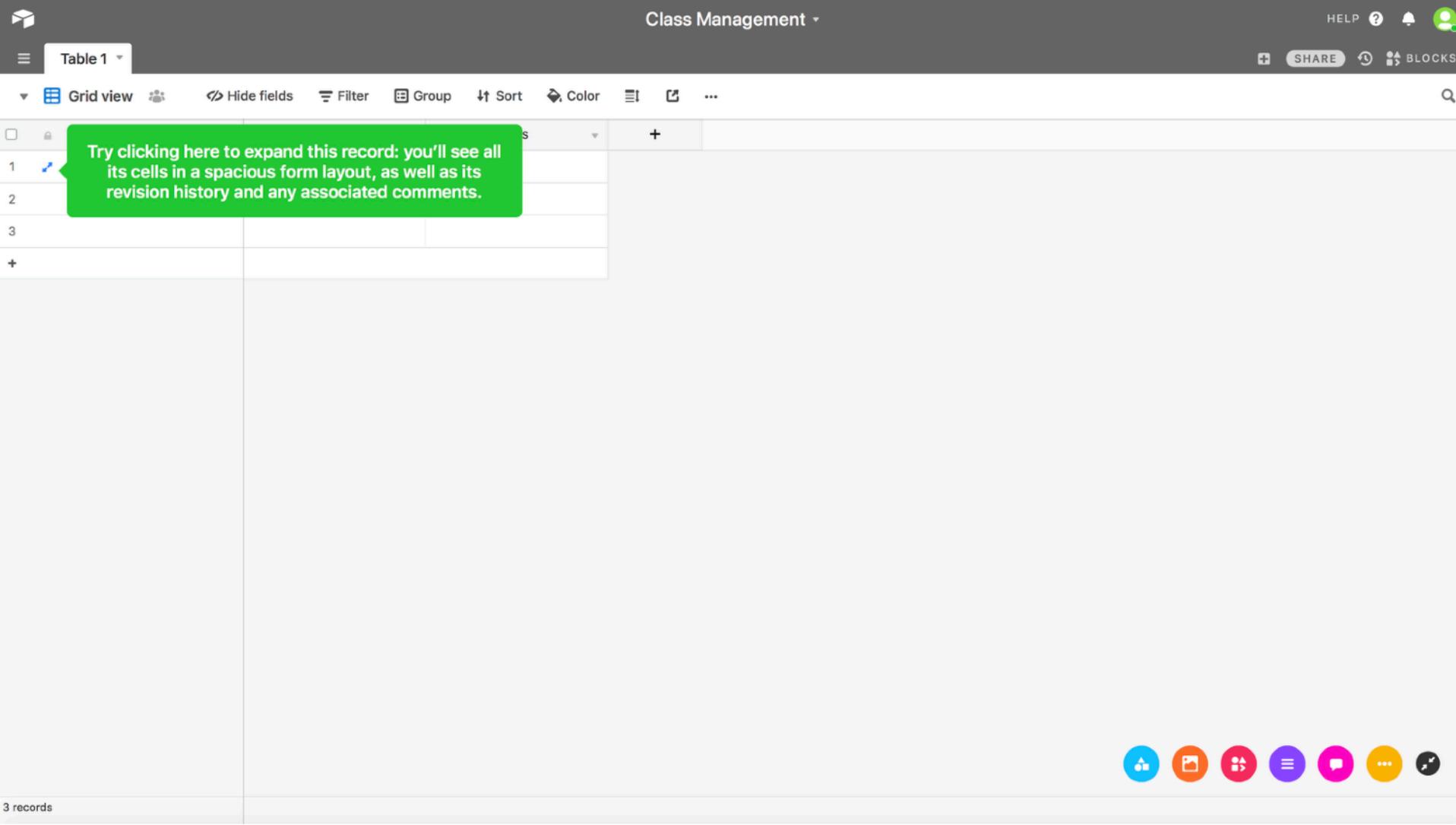
Move base to another workspace

Slack notifications

Delete base

+ Add a workspace

Add a base



Class Management ▾

HELP ? 🔔 🙋

Table 1

SHARE

Grid view Hide fields Filter Group Sort Color ...

A Course ID A Course Title Notes Attachments

Course ID

1
2
3
+

3 records

Blocks

+ Add a block

Course ID Course Title Notes Attachments

Blocks give your base superpowers.

ORT COUNTDOWN SUMMARY PIVOT TABLE

Add a block

Blocks icons: Refresh, Document, Chat, Clock, Search, Bell, Hashtag

Small circular icons: Magnifying glass, Share, Print, Copy, More options

Reconnecting... ⏱

Class Management ▾

HELP ? 🔔

Courses ▾

Grid view Hide fields Filter Group Sort Color ...

+ SHARE ⏲ BLOCKS

Create empty table Import a spreadsheet

	A Course ID	A Course Title	Notes	Attachments	
1			Course ID		
2					
3					
+					

Trying to reconnect... please check your internet connection

3 records





Reconnecting... ☰

Class Management ▾

HELP ? 🔔



Courses

Students

+ SHARE ⓘ BLOCKS



Trying to reconnect... please check your internet connection

Saving... ☁

Class Management ▾

HELP ? 🔔

Courses Students

Grid view Hide fields Filter Group Sort Color ...

Course ID	Course Title	Notes	Attachments
com5961	Data Driven Product & Service Design	Course ID	
2			
3			
+			

3 records



Louisa from Airtable

Welcome to Airtable!

Here's some other resources to get you started:

Thumbs up, thumbs down, confetti, play button, lightbulb, star, and a small circular icon.

All changes saved

Class Management

Courses Students

Grid view Hide fields Filter Group Sort Color ...

Name Notes Attachments

Customize field type

Rename field

Edit field description

Duplicate field

Insert right

Sort A → Z

Sort Z → A

Add filter

Group by this field

Field moved to trash UNDO

SHARE BLOCKS

HELP ?

4 records

4 records

All changes saved

Class Management

Courses Students

SHARE BLOCKS

Grid view Hide fields Filter Group Sort Color ...

	A Student ID	Notes	Attachments	+ Add field
1				
2				
3				
4				
+				

4 records

Add field

4 records

All changes saved

Class Management

HELP ? 🔔 

Courses Students

+ SHARE ⏱ BLOCKS

Grid view Hide fields Filter Group Sort Color ...

	A Student ID	A Notes	Attachments	A Field 4
1				
2				
3				
4				
+				

Field 4

A Single line text

A single line of text. You can optionally prefill each new cell with a default value:

Default text

Enter default text

Cancel Save

4 records





Class Management ▾

HELP ? 🔔



Courses

Students ▾

SHARE 🔍 BLOCKS

Grid view Hide fields Filter Group Sort Color ...



	A Student ID	A Notes	Attachments	A Field 4
1				<input type="text" value="Student Name"/> A Single line text
2				
3				
4				
+				

Student Name

A Single line text

A single line of text. You can optionally prefill each new cell with a default value:

Default text

Enter default text

Cancel

Save



4 records

FROM TABLES TO VIEWS

https://airtable.com/universe

Apps Cyberport Bootc... Blockchain NLP and Chatbot FinTech E-Commerce Classes Development Tools Data Science Machine Learning Music Drupal Cloud Providers Other Bookmarks

Airtable Bases Templates Universe HELP ? 🔔 e

[Search Universe](#)

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
- Products and consumer reviews
- Professional
- Real estate
- Science and technology
- Sports and games
- Travel and outdoors

[Publish your own!](#)

AIRTABLE UNIVERSE

Explore, discover, and share your passion

Cole Haan Creative Operations

Cole Haan Brand Creative is an in-house, full service agency. Our Creative Operations team manages...

Andrew Coulter Enright

Twilio's Lightweight CMS

Tony Mataya

Britannica's Digital Content Management System

Alison Eldridge

Insomniac Events' Staffing Template

Insomniac Events

Project Tracker

Design Projects Tasks Clients +

SHARE ⏪ BLOCKS 🔍

Find a view

Main View

- Incomplete projects by leader
- Completed projects
- Project calendar
- Due dates only
- Gallery
- Kanban
- Form

Add a view: Grid Form Calendar Gallery Kanban

Project Photos	Category	Client	Project Lead	Project Team	
	Brand identity	New York City Parks	Chuck Harrison	Emily Pilloton, Eddie Opara	15/9/2017
	Brand identity	Second Home	Jasper Morrison	Chuck Harrison, Anishka Clarke	25/9/2017
	Brand identity	Metro Loft	Gail Anderson	Gail Anderson, Patricia Urquiola	28/9/2017
	Brand identity	Codecademy	Chuck Harrison	Anishka Clarke, Patricia Urquiola	6/10/2017
	Brand identity	Mohawk	Emily Pilloton	Patricia Urquiola	12/10/2017
	Brand identity	Bigelow Tea	Patricia Urquiola	Emily Pilloton, Jasper Morrison	16/10/2017
	Brand identity	Massachusetts Institute of Tech	Emily Pilloton	Anishka Clarke	17/10/2017
	Brand identity	Museum of Modern Art	Gail Anderson	Eddie Opara, Naoto Fukasawa	24/10/2017
	Brand identity	GRiD Systems Corporation	YiuSin Suen		

CATEGORY
Industrial Design Count 2

Ultimate Utility Bike		Industrial Design	Oregon Manifest	Gail Anderson	Naoto Fukasawa	4/10/2017
C17 Bike Saddle	✓	Industrial Design	Brooks England	Chuck Harrison	Chuck Harrison	11/10/2017

CATEGORY
Healthcare Design Count 2

Hand Hygiene System	✓	Healthcare Design	SwipeSense	Chuck Harrison	Jasper Morrison	21/9/2017
HGH Injection Device	✓	Healthcare Design	Eli Lilly and Company	Gail Anderson	Emily Pilloton	5/10/2017

18 records

Project Tracker

Design Projects Tasks Clients +

Project calendar Using "Kickoff date" field Filter Sort Color ...

Today < > October 2017 Month 2 week Week 3 day Day Q Find a record All records

Mon	Tue	Wed	Thu	Fri	Sat	Sun
25 Second Home Brand Identity	+ 26	27	28 443 Greenwich Brand Ident...	29	30	1
2	3 Compass Notebook Compu...	4 Ultimate Utility Bike	5 HGH Injection Device	6 Codecademy Brand Identity	7	8
9	10 C17 Bike Saddle	11 PalmPad	12 Mohawk Brand Identity	13	14	15
16 Tea Packaging	17 MIT Media Lab Logo	18 Melon Headband	19	20	21	22
23 MOMA Brand Identity	24	25	26	27	28	29
30	31	1	2	3	4	5

Tea Packaging Oct 16, 2017 

C17 Bike Saddle Oct 11, 2017 

Second Home Brand Ide... Sep 25, 2017 

Ultimate Utility Bike Oct 4, 2017 

Compass Notebook Com... Oct 3, 2017 

MOMA Brand Identity Oct 24, 2017 

PalmPad Oct 11, 2017 

Codecademy Brand Iden... Oct 6, 2017 

Convertible 2260 Laptop Sep 20, 2017 

443 Greenwich Brand Id... 

Project Tracker

Design Projects Tasks Clients +

SHARE BLOCKS

Gallery Customize cards Filter Sort Color ...

NYC Parks Brand Identity
COMPLETE
Prototyping
PROJECT PHOTOS

Convertible 2260 Laptop
COMPLETE
PHASE
PROJECT PHOTOS

Hand Hygiene System
COMPLETE
PHASE
PROJECT PHOTOS

Second Home Brand Identity...
COMPLETE
Research
PROJECT PHOTOS

443 Greenwich Brand Ide...
COMPLETE
PHASE
Prototyping
PROJECT PHOTOS

Compass Notebook Comp...
COMPLETE
PHASE
PROJECT PHOTOS

Codecademy Brand Identity
COMPLETE
PROJECT PHOTOS

Ultimate Utility Bike
COMPLETE

HGH Injection Device
COMPLETE
PHASE

PalmPad
COMPLETE
PHASE

C17 Bike Saddle
COMPLETE
PHASE

Mohawk Brand Identity
COMPLETE
PHASE

<https://airtable.com/tblbZlxfgBuuk2O3x/viw6z2UcS9BXyBSWb/recmnpTieT9J0vHWw>

Project Tracker

Design Projects Tasks Clients +

Kanban Stacked by Phase Customize cards Filter Sort Color ...

Uncategorized

Convertible 2260 Laptop
COMPLETE ✓

Research

Second Home Brand Ide...
COMPLETE ✓

Problem Definition

Tea Packaging
1 record +

Ideation

No records +

Prototyping

443 Greenwich Brand Id...
mit media lab

Testing

MIT Media Lab Logo
COMPLETE ✓

NYC Parks Brand Identity
COMPLETE ✓

Mohawk Brand Identity
COMPLETE ✓

Hand Hygiene System
COMPLETE ✓

9 records +

5 records +

2 records +

<https://airtable.com/tblbZlxfg8uuk2O3x/viwItXQhtUPszSfW6/recdZb9L3SVN4Ey1K>

Project Tracker

Design Projects Tasks Clients +

Form Share form Open form ...

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

Complete

Phase

Interacting with Airtable & MySQL in Jupyter Notebook

Install Essential Python Modules

In []:

```
1 import sys  
2 !pip install Werkzeug
```

In []:

```
1 !pip install --upgrade tensorflow # for python 3.*
```

In []:

```
1 !pip install PyMySQL
```

Testing Airtable API

Testing MySQL Connection

In []:

```
1 import pymysql.cursors
2 connection = pymysql.connect(host="localhost",
3                             user=<Your database username>,
4                             passwd=<Your database password>,
5                             db=<your database name>,
6                             charset='utf8mb4',
7                             cursorclass=pymysql.cursors.DictCursor)
8 with connection.cursor() as cursor:
9     sql = "SELECT * FROM temperature"
10    cursor.execute(sql)
11    result = cursor.fetchall()
12    dataset = []
13    temp = {}
14    i = 0
15    for row in result:
16        temp[i] = row
17        dataset.append(temp[i])
18        i = i + 1
19    print(dataset)
```

Testing Airtable API

```
In [ ]: 1 import requests
2 import pandas as pd
3 headers = {
4     'Authorization': 'Bearer <Your API Key>',
5 }
6
7 params = (
8     ('view', 'Main View'),
9 )
10
11 def test():
12     r = requests.get('https://api.airtable.com/v0/<Your App Id>/Tasks?api_key=<Your API Key>&
13                 sortField=_createdAt&sortDirection=desc', headers=headers, params=params)
14     dict = r.json()
15     a_dict = dict['records']
16     a_list = []
17     b_dict = {}
18     name_list = []
19     stage_list = []
20
21     df = pd.DataFrame.from_dict(a_dict)
22     for i in a_dict:
23         dict = i['fields']
24         del dict["Design_Projects"]
25         del dict["Assignee"]
26         del dict["Stage"]
27         b_dict["Name"] = dict["Name"]
28         b_dict["Stage_Desc"] = dict["Stage_Desc"]
29         b_dict["Completed"] = dict["Completed"]
30         b_dict["Time_Estimate"] = dict["Time_Estimate"]
31         b_dict["Weight_Factor"] = dict["Weight_Factor"]
32         b_dict["converted"] = dict["converted"]
33         name_list.append(dict["Name"])
34         stage_list.append(dict["Stage_Desc"])
35         a_list.append(b_dict)
36     # print(name_list)
37     # print(stage_list)
38     return a_list
39
40 list_a = []
41 list_a = test()
42 print(list_a)
```



Project Tracker • 0

HELP ? 🔔

[SHARE](#) [BLOCKS](#)

	A Name	Design_Projects	Time_Estimate	Weight_Factor	converted	Notes	Stage	Stage_Desc
1	Design clamshell case hinge	Pass Notebook Computer	15.0	2.0	30		Research	Research
2	Source battery supplier	Pass Notebook Computer	1.5	3.0	5		Problem Definition	Problem Definition
3	Research other tea packaging	Packaging	2.5	5.0	13	Tea packaging varies a lot...	Ideation	Ideation
4	Testing Airtable integration	Portable 2260 Laptop	1.5	4.0	6		Prototyping	Prototyping
5	I'm showing the team about Slack i...	Portable 2260 Laptop	2.0	5.0	10		Prototyping	Prototyping
6	A demo for 7+1 students	Hygiene System	3.0	7.0	21		Problem Definition	Problem Definition
7	Another demo for EPIN students	Brand Home Brand Identity	3.0	8.0	24		Prototyping	Prototyping
8	Prepare for class on Saturday 13th ...	Hygiene System	3.0	9.0	27		Testing	Testing
9	Testing Airtable integration	Brand Home Brand Identity	2.0	10.0	20		Research	Research
10	Check availability of room	A Brand Identity	2.0	11.0	22		Problem Definition	Problem Definition
11	I love EPIN 1020	Greenwich Brand Identity	2.0	12.0	24		Prototyping	Prototyping
12	Row 12	Greenwich Brand Identity	5.0	11.0	55		Problem Definition	Problem Definition
13	Row 13	Greenwich Brand Identity	6.0	3.0	18		Prototyping	Prototyping

THANK YOU FOR YOUR TIME!