



Recording will
be shared

Welcome to the Timeline Chart Workshop!

Download
Code & Slide

bit.ly/KDP_Timeline

Click the top right
Download ZIP
button



Sign Up For:

#1 Developer Account
bit.ly/KDP_signup

#2 Kintone Subdomain
bit.ly/K_DevLic

Asking Questions
& Raising Hands

Post questions in
the chat anytime!

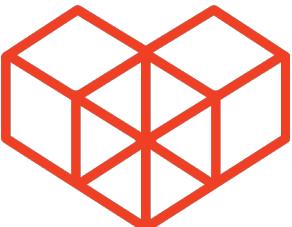
Include your code
& error messages.



\$25 Gift Card
Raffle at the End



#1 - Sign Up for Developer Account



bit.ly/KDP_signup

⚠ Do NOT use Safari ⚠

⚡ Accept Cookies First ⚡

✓ Chrome & Firefox works ✓

The screenshot shows a sign-up form for the Kintone Developer Program. At the top, there's a header with the Kintone logo and a search bar. Below the header, a main image features a giraffe and the text "Welcome to the source". A yellow sidebar on the right contains the text "What is the Kintone API?" and "Learn how to unlock its power". The main form area has fields for "Your full name *", "Your email *", and a reCAPTCHA checkbox labeled "I'm not a robot". A large blue "Sign up" button is at the bottom, and a "Cancel" link is in the bottom right corner.

Sign up to Kintone Developer Program

Please fill out this form, and we'll send you a welcome email so you can verify your email address and sign in.

Your full name *

Your email *

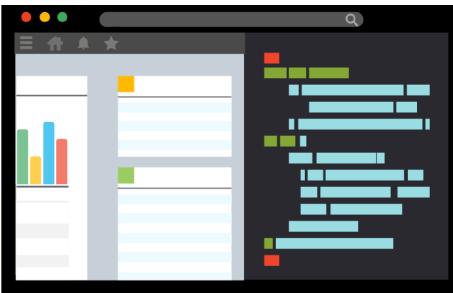
I'm not a robot

Sign up

Cancel



#2 - Create a Kintone Subdomain



bit.ly/K_DevLic

⚠ No Special Characters ⚠

⚡ Name your Subdomain with only ⚡
lowercase [a-z], numbers [0-9],
& hyphens [-]

✓ e.g. weekend-hacker, jsis4you ✓

Terms of Service for the Developer License

The account holder of this developer program who applies for the license (hereinafter referred to as "User") must comply with all of the provisions and the following conditions set out by Kintone Corporation (hereinafter referred to as "Kintone"), who will provide a Kintone developer license to the User.

[Kintone Developer License Terms of Service](#)

Developer License Application Form

First Name*

Last Name*

Email*

Company Name*

Create your Kintone Developer License subdomain (lowercase, numbers and hyphens only)*

For example: mydomain, coffee-lovers

I agree with the [Kintone Developer License Terms of Service*](#)

protected by reCAPTCHA

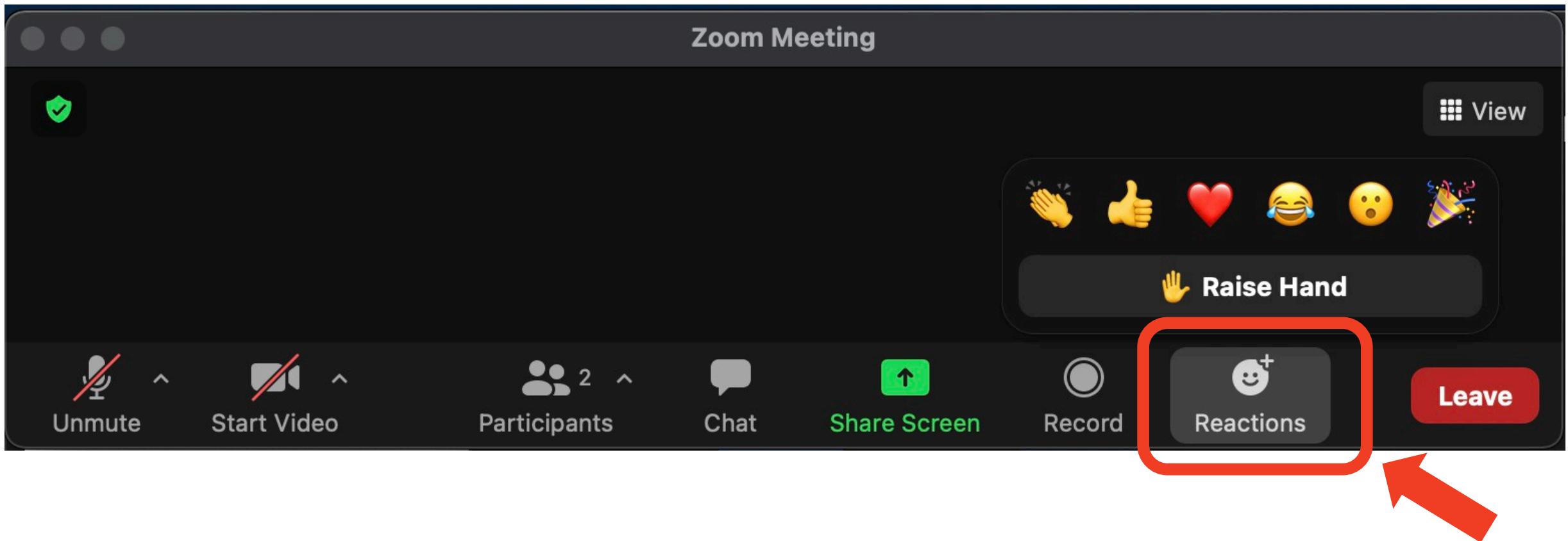
[Privacy](#) - [Terms](#)



Sign Up



Let's Practice using Zoom's Reactions

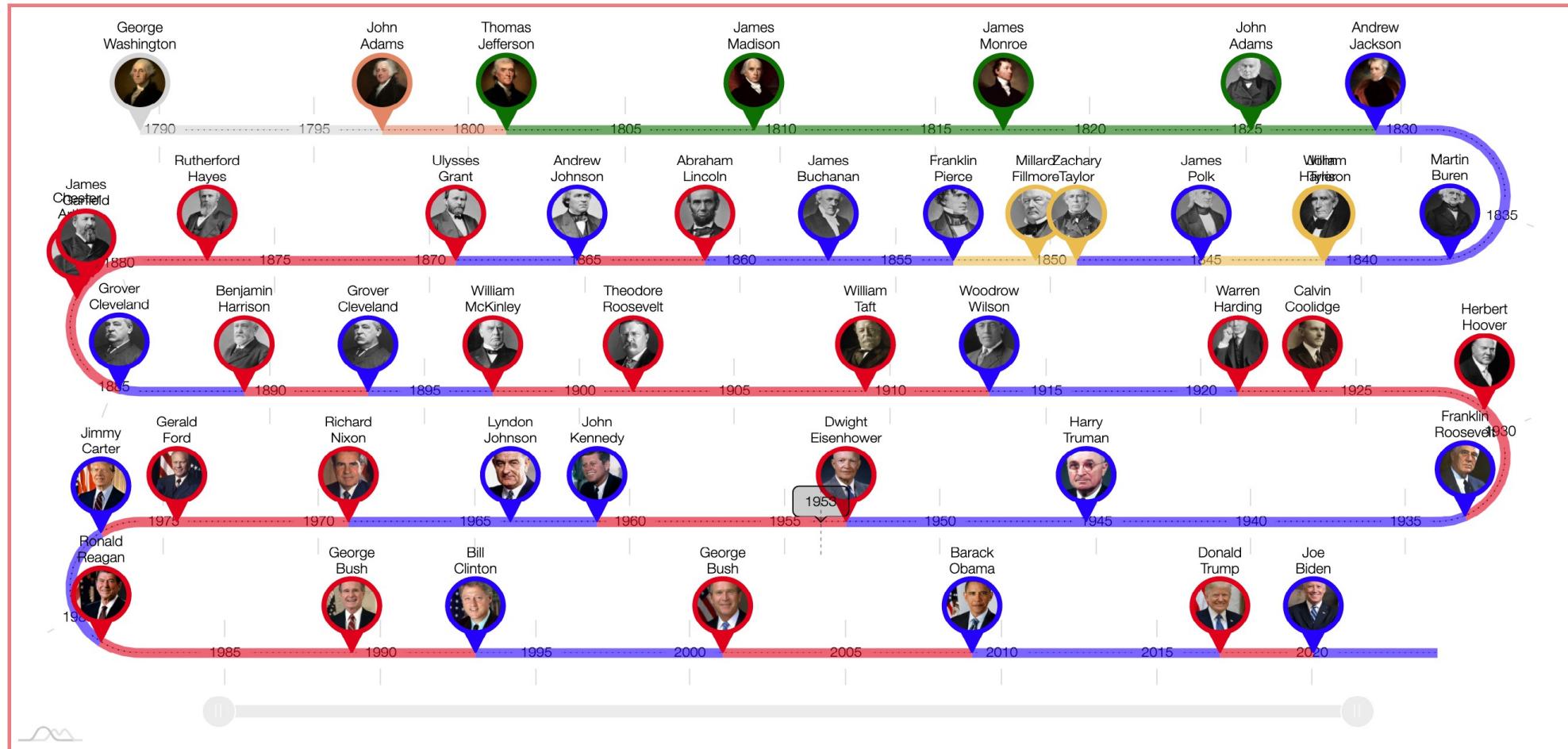


This helps us out who to look out for throughout this workshop.



What We Will Make Today

Records 1 - 46 of 46

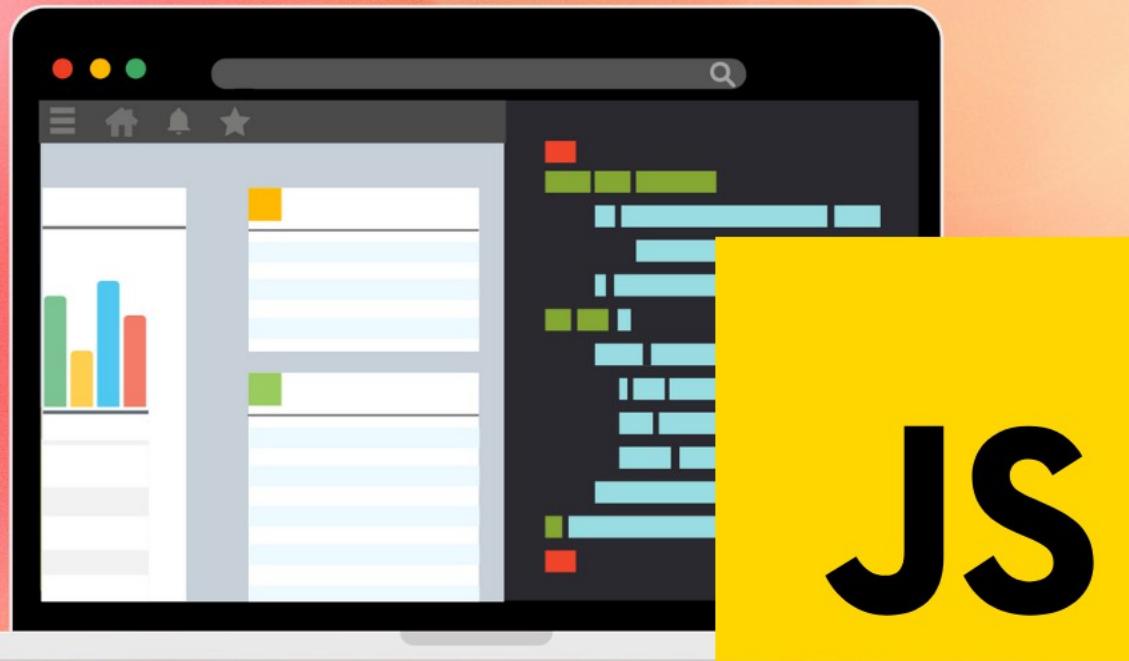


Record number	Start_Date	End_Date	First_Name	Last_Name	Party	Wiki_URL
46	Jan 20, 2020	Jan 20, 2024	Joe	Biden	Democratic	https://en.wikipedia.org/wiki/President... ...



No Server Data Visualization

Build a Timeline Chart!



This Workshop is For

Front-end developers who want to **spend less time**
setting up their back-end infrastructure



I want to **concentrate** on
the **UI/UX** of my project!

Hey! I'm Nim.

My Career Path:

Hack Reactor SF



Kintone Sales Engineer



Lead Sales Engineer



Sales Engineering Manager



Technical Evangelist



Today's Agenda

- 1 Get the Big Picture**
- 2 Create a Kintone App**
- 3 Display amCharts on Kintone**
- 4 Call REST APIs from Kintone**

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Scope of Traditional Data Analytics

Nearly all conversations about Data Analytics revolve around three goals:

- Make data look pretty
- Understand the data easily
- Generate actionable insight

But are we **sharing** the insights effectively?



Missing - Unified Communication

Data Silos

Information is not being
shared effectively

Scattered Communication
Unclear where the
conversation is happening

Where Kintone is Special!



What is Kintone?

The screenshot displays the Kintone interface. At the top, there's a navigation bar with 'Sales' on the left and 'Public Space' on the right. Below it is an 'Announcement' board featuring three cards: 'Customer Database' (Admin:Green), 'Sales Leads' (Admin:Green), and 'Contact Log' (Admin:Green). The main area is a 'Dashboard' with two charts. The left chart shows 'Sales Leads: Monthly Expected Sales (per priority)' from April 2019 to March 2020, with categories Middle (blue), High (red), and Low (green). The right chart shows 'Sales Leads: Total Expected Sales (per Products)' with a pie chart and data labels: Form Creator: \$630 (4.5%), Viewer: \$1440 (10.3%), T/C: \$1950 (14.0%), Int Creator: \$4202 (30.1%), and kintone: \$5718 (41.5%). At the bottom, a footer shows the date 'Apr 1 10:43 PM' and the name 'Mary Simpson'. To the right of the dashboard is a 'Threads' sidebar listing 'Deal Flow' (Apr 3 11:24 AM), 'Sales Division' (Apr 1 11:49 PM), and 'Monthly Reports' (Apr 1 11:45 PM). Below these are sections for 'Apps' (Vendor Database, Item Database, [Of] Product List, [Of] Invoices, [Of] Seminar Survey, [Of] Attendee Lists, [Of] Event Calendar, [Of] Activity Log, [Of] Sales Leads, [Of] Customer Database) and 'People' (Members: Hiroko ..., Mary Si..., John S..., Rudy Red, Polly Pink, Bill Blue, Glen Gr..., Paul Gray, Mark Pe..., Dannie ...).

Kintone is a **no-code / low-code** cloud platform for teams to easily share and **collaborate** on their **data** efficiently.

What is Possible?

A screenshot of a Kintone application interface. The top navigation bar shows 'Developer Community' and the current view is 'Space: Developer Community / App: REST API Docs / View: (All records) / Record: Kintone REST API'. The main area displays binary code and developer-related content.

Remove the Friction
Keep the conversation
where the data lives

Where
Data
Lives

A screenshot of a Kintone application showing a 'Fix History' table. The table has columns: Date, Fixed By, Before, After, and Fix Details. A single entry from Aug 27, 2020, by 'Clare - Support' shows a comparison between two screenshots of a 'Get API Schema' page. The 'Before' screenshot shows a broken link, while the 'After' screenshot shows it fixed. The 'Fix Details' section notes 'Fixed the GET API List API link' and 'Added apis.{key}.link'.

Date	Fixed By	Before	After	Fix Details
Aug 27, 2020	Clare - Support			Fixed the GET API List API link Added apis.{key}.link

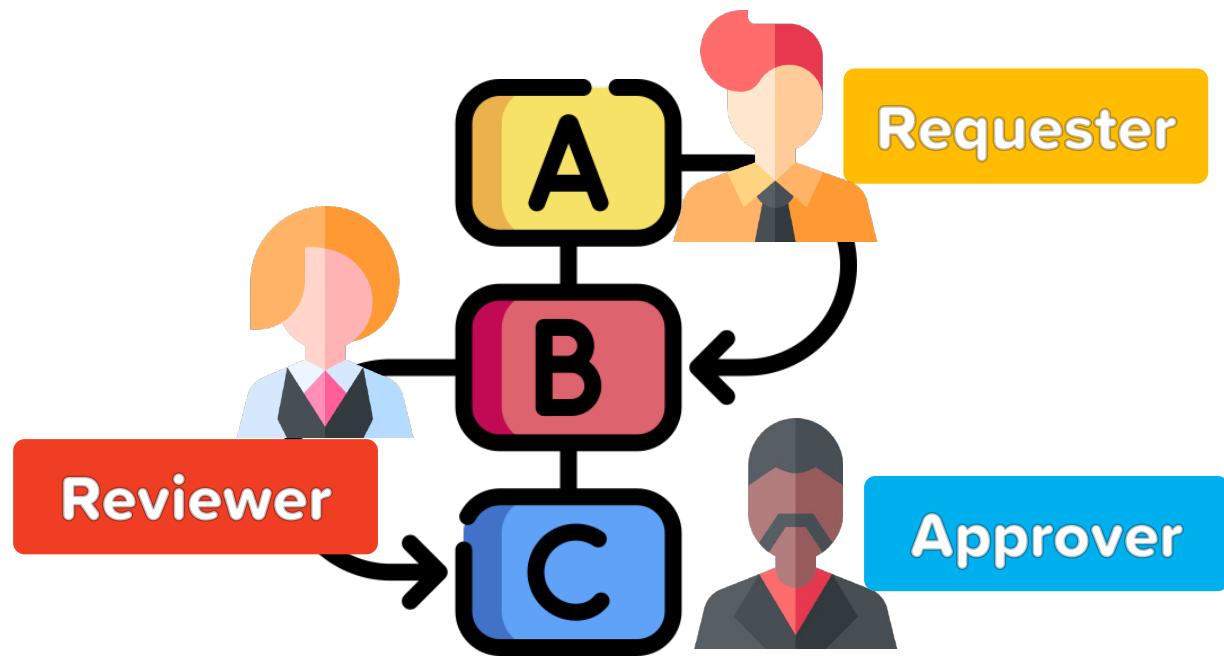
A screenshot of a Kintone application showing a comment feed. The feed has three entries:

- 3: Clare - Support @Sharon - Developer @Genji Done!
Like Reply
- 2: Sharon - Developer @Genji Oh, shoot, thanks for catching my mistake!
Like Reply
- 1: Genji @Clare - Support Please take a look at this document.
Like Reply

Where
Communication
Lives

Workflow

With Process Management,
establish a workflow so that the
right people sees the **right info**
at the **right time**.



Developer Community

Space: Developer Community App: KDP Event View: Summary Record: No Server Data Visualization: Build a W

Assign Reporter Change Assignee

Next Status:
Writing Report

Select Assignee:

- Genji
- Sharon - Developer
- John - Manager
- Clare - Support

Cancel Confirm

Write your comment here.

Community

Project

Support

Event Image

No Server Data Visualization JS Build a Word Cloud!

1: Genji @Sharon - Developer They together such a great w

Like Reply

1 Unlike Reply

1: Genji @Sharon - Developer They together such a great w

Like Reply

Kintone Apps

The screenshot shows the Kintone Shared To Do app interface. At the top, there's a navigation bar with icons for home, search, and settings, along with a 'Search in App' field. Below the header, a banner reads: "To Do App with Process Management feature. All tasks assigned to you can be viewed under 'Assigned to me' section on the portal page. Always be organized and on time by setting up reminders and visualizing team's progress through snazzy graphs." The main area is a table titled "My To Do" with the following columns: To Do, Priority, Due date, Status, Details, and Attachment. The table contains five records:

To Do	Priority	Due date	Status	Details	Attachment
Define requirements	Medium	Apr 05, 2019	In progress	Please start defining the requirements for our ne...	/x
Research vendors	Medium	Apr 08, 2019	Complete	Find at least 3 vendors and summarize their pro...	/x
Send invoice to customer	High	Apr 11, 2019	Assigned		/x
Define scope	Low	Apr 12, 2019	Assigned	XYZ Project would be a long project divided into...	/x
Map out schedule	Low	Apr 19, 2019	Assigned		/x

The main building block in Kintone is an **App**.

Imagine an **App** as a powerful, online table where data is stored in records.

Kintone Apps

Sales & Leads > Settings

Last Updated: Mary Simpson 12:10 AM

Sales & Leads

Form Views Graphs App Settings

Save Form

Leads & Sales

Lead Title Sales Representative

Contact Info

Company Name Website

Contact Name Job Title

Email Telephone Number

Product Name Product ID Unit Price Quantity

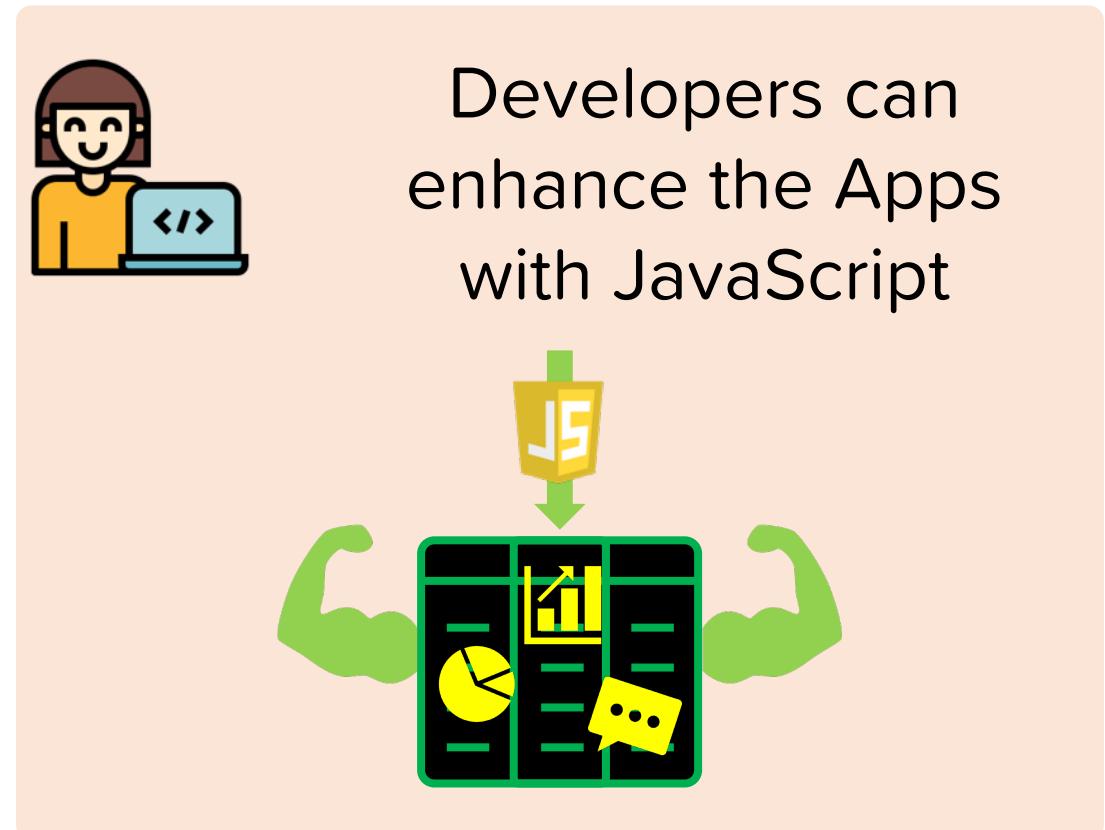
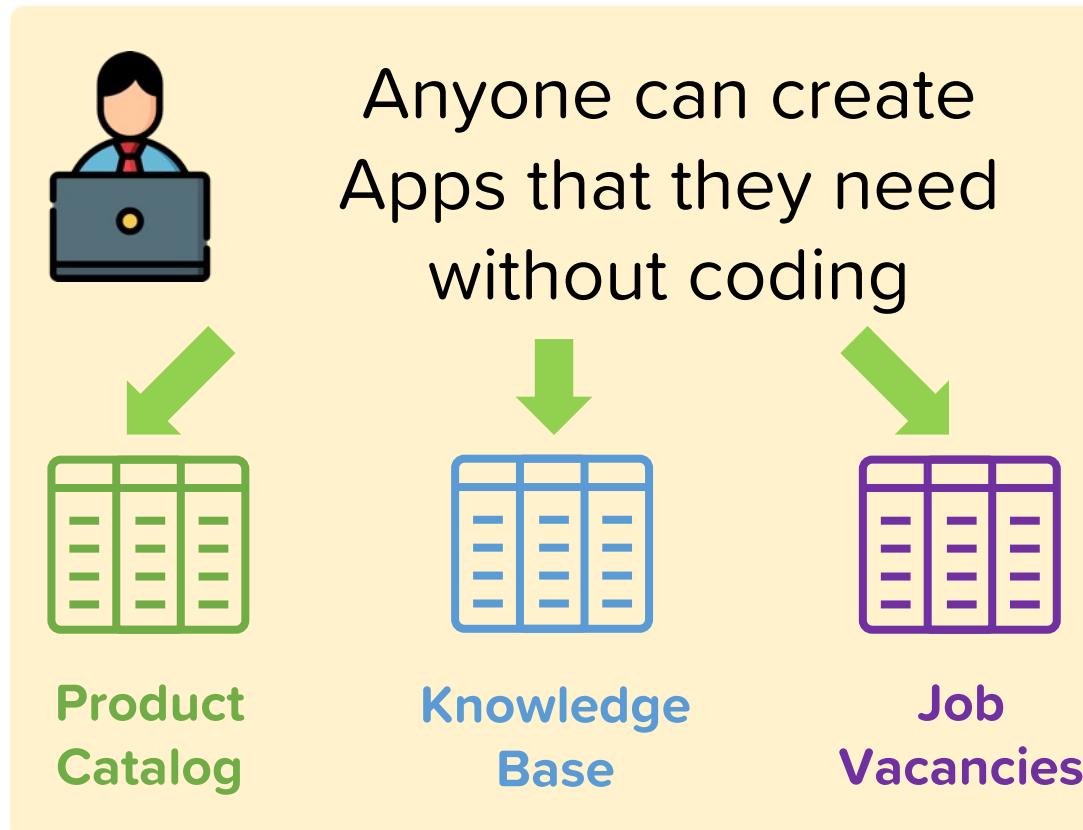
The screenshot shows the Kintone app builder interface for a 'Sales & Leads' app. At the top, there's a navigation bar with 'Sales & Leads > Settings'. Below it, a header bar shows 'Last Updated: Mary Simpson 12:10 AM' and buttons for 'Discard Changes' and 'Update App'. The main area is titled 'Leads & Sales' and contains a 'Form' tab. On the left, there's a sidebar with a green 'Save Form' button and a list of field types: Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Related records, Blank space, Field group, Record number, Created datetime, and Updated datetime. The main form area has sections for 'Lead Title' and 'Sales Representative', followed by a 'Contact Info' section with fields for 'Company Name' and 'Website', and another section for 'Contact Name' and 'Job Title'. At the bottom, there's a table with columns 'Product Name', 'Product ID', 'Unit Price', and 'Quantity'.

Apps are easy to **create** using a **drag-and-drop** interface with no coding needed.

Apps are extensively **customizable** with client-side **JavaScript**.

Everyone Contributes!

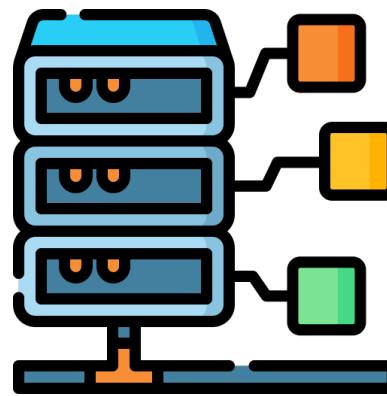
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



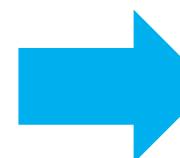
Fulfill the Promise of Data Analytics

Gain meaningful insights about the data that become operationalized quickly.

Data + Communication



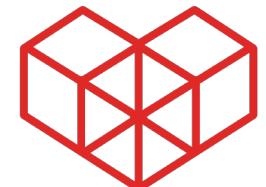
Insight



Action



How Developers Contribute

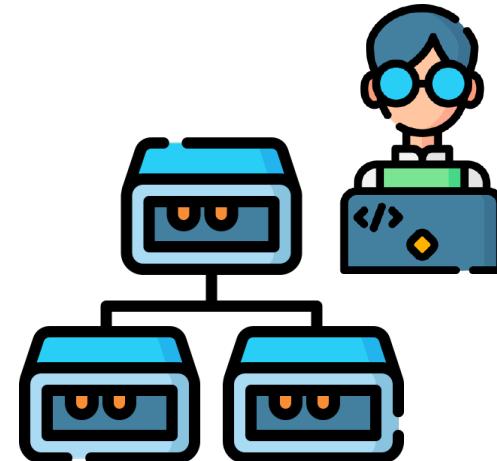


kintone
developer program

How Developers Contribute

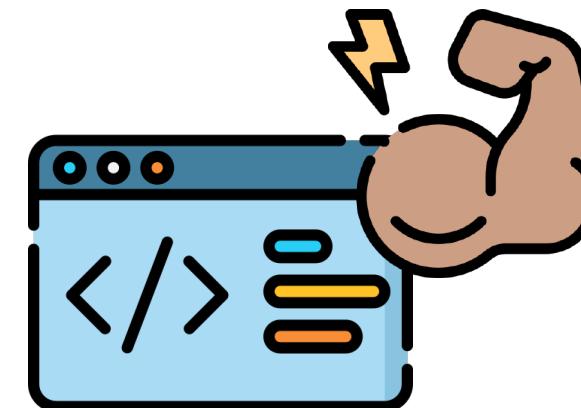
Command Center

- Create a custom look & feel
- Integrate with 3rd party web applications to exchange data



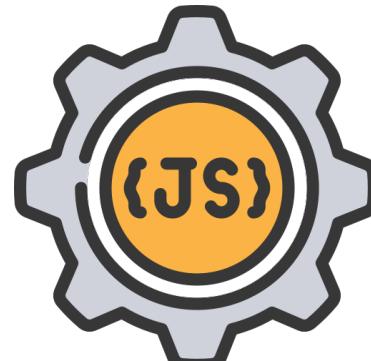
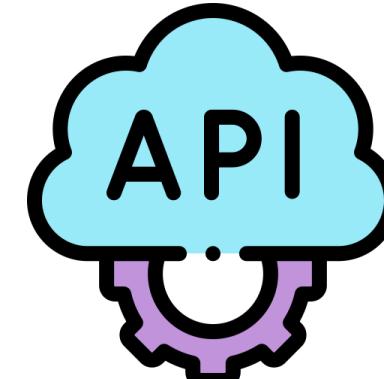
Enhancements

- Develop JavaScript customizations
- Build & share extensions



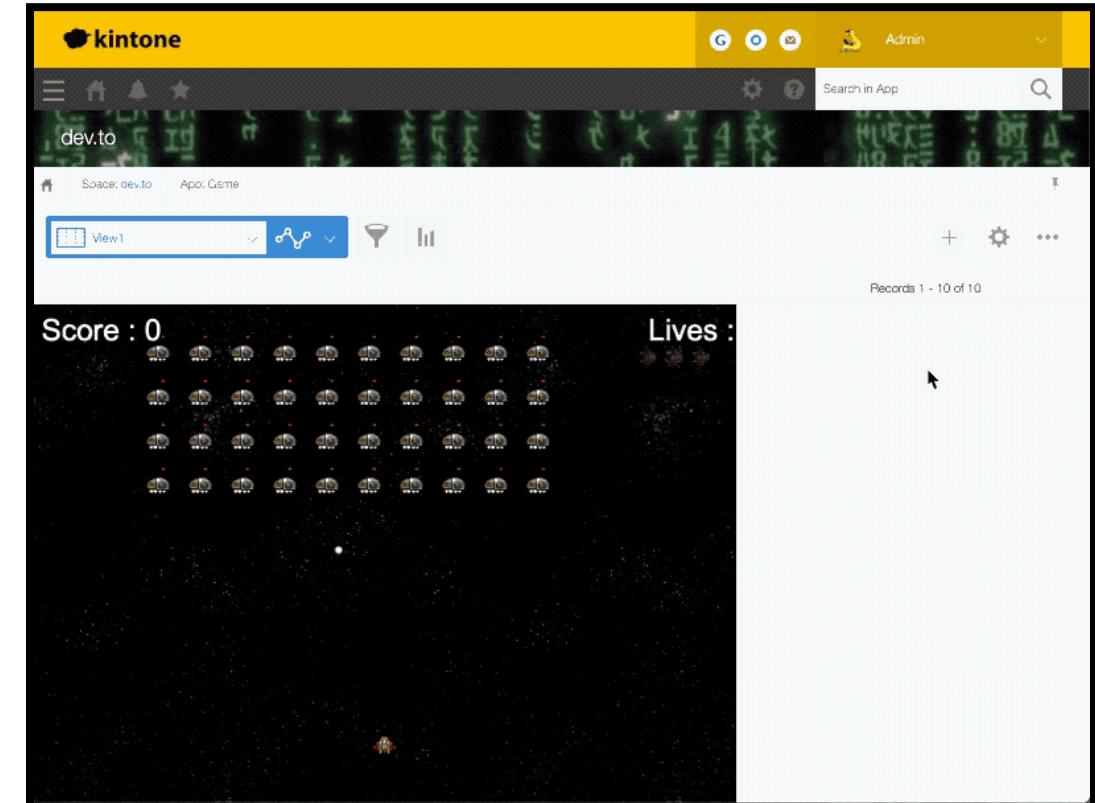
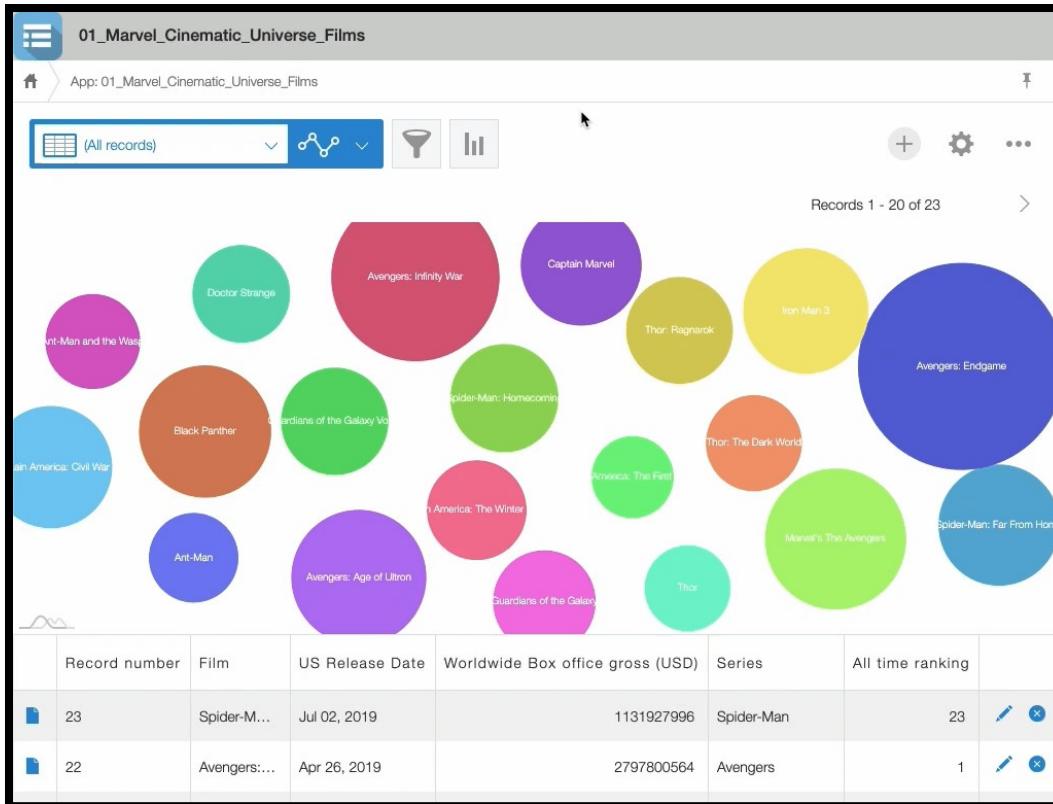
Tools Inside Kintone

- JavaScript APIs
- REST APIs
- API Tokens
- Webhook
- Plugins
- JavaScript Customizations
- CSS & HTML Customizations
- Precise Permission Controls



Create a Custom Look and Feel

Display data the way you want with HTML, JS, and CSS



Kintone For Self Learning



Keep learning new
JavaScript tricks!

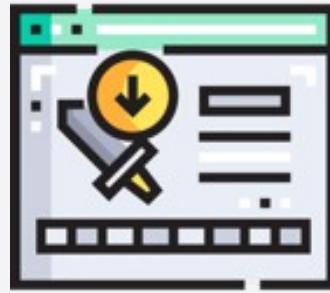


Contribute your
learnings to tech
blogs



Share your
projects with your
community!

Kintone For Creating Revenue



Create & sell
Kintone
extensions



Consult with firms
on achieving
business goals



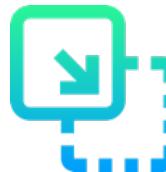
Develop Kintone
customizations for
customers

How Is This Related to Building Projects With No Servers?

Kintone will:



become your server running your database



let you create your databases with GUI



allow you to concentrate on the front-end work

Today's Agenda

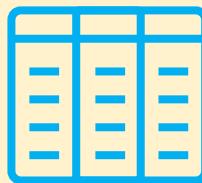
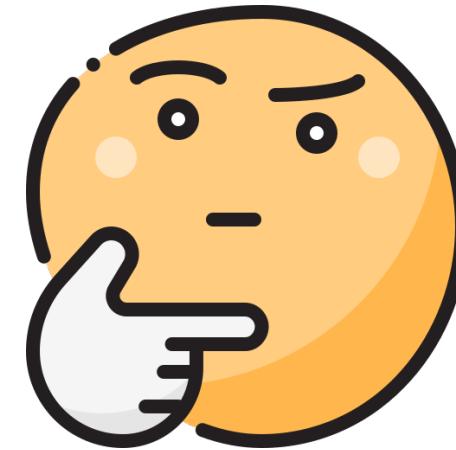
- 1 Get the Big Picture**
- 2 Create a Kintone App**
- 3 Display amCharts on Kintone**
- 4 Call REST APIs from Kintone**

\$25 Amazon Gift Card
Raffle at the end!

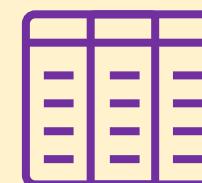


Let's Create a Kintone App! (A Database)

What sort of database shall we make?



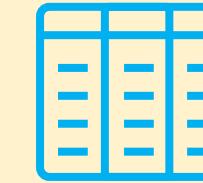
Employee List



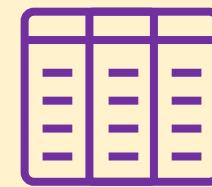
CRM



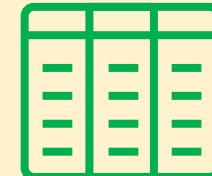
Expense Report



Company FAQ



Board Game DB



Lunch DB



Hands-On Walk-Through

- 1** First, let's go over the steps to build the app
- 2** Then, build the app as an exercise





Getting Your Kintone Environment

1

Sign up for a Kintone
Developer Account

bit.ly/KDP_signup



Do NOT use Safari



Accept Cookies First



Use Chrome & Firefox

2

Create a Kintone
Subdomain

bit.ly/K_DevLic



No Special Characters



Only use lowercase [a-z],
numbers [0-9], & hyphens [-] in
your subdomain



Check Your Email



Welcome to Kintone! One More Step To...

The screenshot shows a Gmail inbox with one email. The subject is "Welcome to Kintone! One More Step to Developer License". The sender is "Will Sayama akihiro-sayama@cybozu.com via bf06x.hubspotemail.net to me". The email body contains an orange banner with the kintone logo and the text "ONE MORE STEP FOR YOUR DEVELOPER LICENSE!". Below the banner, there is a message: "Howdy! Please click the button below to activate your developer license and complete the sign-up process." followed by a red "Activate Now" button. At the bottom, a note says: "Only valid for 24 hours. Please click [here](#) if an error is displayed after the expiration. Your subdomain name is devevents2."

YOUR_SUBDOMAIN.kintone.com

The screenshot shows a web browser window with the URL "https://your_subdomain.kintone.com/...". The page title is "Set Initial Password". It has two input fields: "New Password" and "Confirm New Password". Below the "New Password" field is a note: "Enter minimum 8 characters, including both letters and numbers." At the bottom is a blue "Set Password" button.

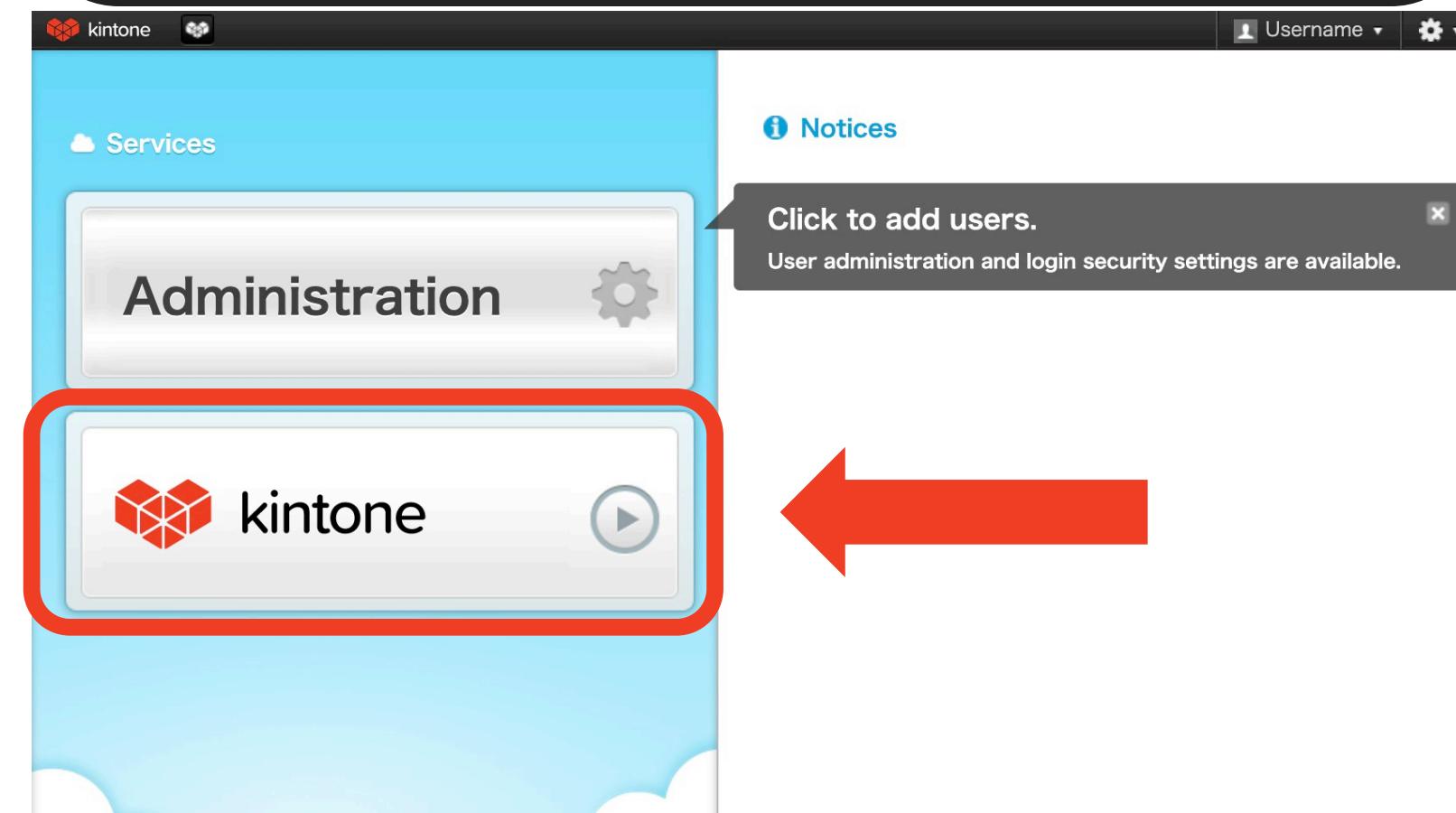


Let's Log into Kintone

Click on Kintone button
on the Left side

The email has the
initial registration link
& subdomain

[https://YOUR_SUBDOMAIN.kintone.com/...](https://YOUR_SUBDOMAIN.kintone.com/)





Create a Kintone App (Web Database)

On the Left side of the
Portal

- > Find the **Apps** section
- > Click on the [+] button on the left side

The screenshot shows the Kintone Portal interface. On the left, there is a sidebar with sections for 'Announcement', 'Spaces', and 'Apps'. A red arrow points from the text 'Click on the [+] button on the left side' to the '+ Add New App' button in the 'Apps' section. The main content area displays the 'Welcome to Kintone!' dashboard, which includes sections for 'How to use Kintone', 'How to use the Announcements dashboard', and a timestamp of 'Aug 8, 2017 11:00 AM Administrator'. Below the main content, there is a 'Notifications' section with a green bell icon and a status of 'All'.



Create a Kintone App (Web Database)

Under the Create New App section, select the **Create App from Scratch** button

The screenshot shows the Kintone Marketplace interface. At the top, there's a navigation bar with the Kintone logo, user profile, and search bar. Below it, the main title is "Kintone Marketplace". On the left, there's a sidebar titled "By Department" with categories like Sales, Customer Service, Human Resources, IT & Administration, Research & Development, Marketing, Legal & Finance, and Company-wide. In the center, there's a section titled "How to Find Apps?" with instructions: "Click the left category names to look for apps in the Kintone Marketplace, or enter a keyword in the search box." Below this, there's a "Create New App" section with two buttons: "Create App from Scratch" (which is highlighted with a red arrow and a red box) and "Create from Excel".



Title Your Kintone App

This is the App Builder!

Let's start by naming
the new App!

Title it by clicking on
"New App" and type
Board Game DB

The screenshot shows the Kintone App Builder interface. At the top, there is a navigation bar with the Kintone logo, user information (Username), and search functionality. Below the navigation bar, the breadcrumb path indicates 'Kintone Marketplace > New App > Settings'. The main title 'Board Game DB' is displayed in a blue header bar, with a red arrow pointing to it from the left. To the right of the title are 'Discard' and 'Activate App' buttons. Below the title, there are tabs for 'Form', 'Views', 'Graphs', and 'App Settings', with 'Views' being the active tab. On the left side, there is a 'Save Form' button and a grid of field types: Label, Text, Rich text, Text area, Number, Calculated, Radio button, Check box, Multi-choice, Drop-down, Date, Time, Date and time, and Attachment. To the right of the field grid, a large grey arrow points downwards with the text 'Drag and drop fields here.'.

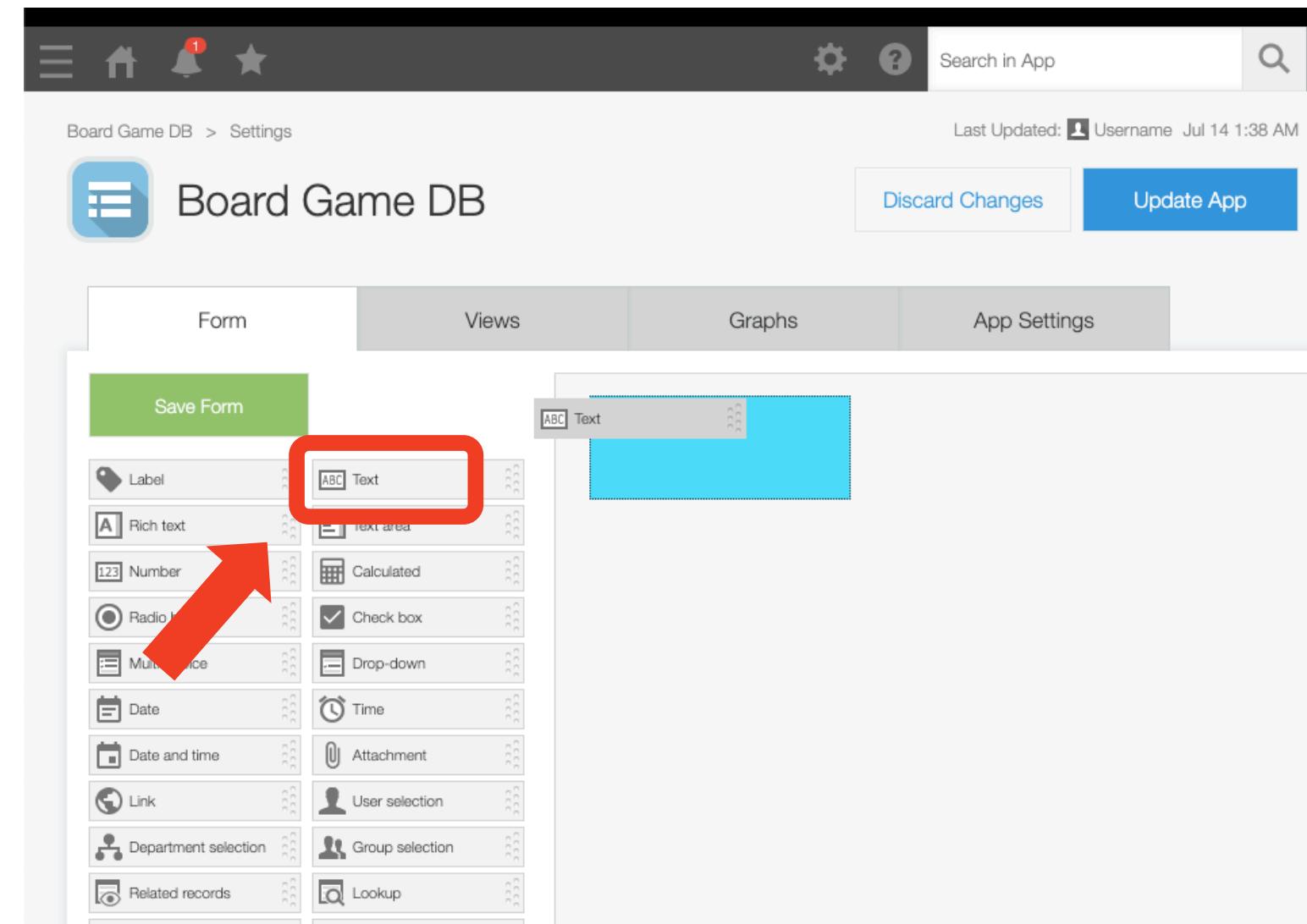


Drag and Drop the Text Field

Now let's add a **Text** field to the **Board Game DB** App!

On the Left side

- > Find the **[ABC] Text** field
- > Drag it to the middle





Configure the Text Field

Hover over the [ABC] Text field

> Click on the Gear icon

> Replace Text with **Name**

> Click on the **Save** button

The screenshot shows the Kintone app interface for 'Board Game DB'. At the top, there are tabs for 'Form', 'Views', 'Graphs', and 'App S...'. Below these, a green 'Save Form' button is visible. A red arrow points from the text 'Click on the Gear icon' to a gear icon in a context menu that appears when hovering over a 'Text' field. The context menu also includes options for 'Settings', 'Duplicate', and 'Delete'.

The screenshot shows the 'Text Settings' dialog box. It includes fields for 'Name *' (containing 'Name'), 'Hide field name', 'Calculate automatically', 'Required field', and 'Prohibit duplicate values'. There are also fields for 'Number of Characters (Note: Use integer)' with 'Minimum' and 'Maximum' inputs, and a 'Default Value' input. A red arrow points from the text 'Replace Text with Name' to the 'Name' field. A large green arrow points from the text 'Click on the Save button' to the 'Save' button at the bottom of the dialog.



Drag and Drop the Drop-down Field

let's add a **Drop-down** field
to the **Board Game DB**
App!

On the Left side

- > Find the **Drop-down** field
- > Drag it to the middle

The screenshot shows the 'Board Game DB' application interface. At the top, there is a navigation bar with icons for home, notifications (1), and search, followed by 'Search in App'. Below the notifications icon is a gear icon for settings. On the right, it says 'Last Updated: Username Jul 14 1:38'. There are two buttons: 'Discard Changes' and 'Update App'. The main area has tabs for 'Form', 'Views', 'Graphs', and 'App Settings', with 'Form' selected. A green 'Save Form' button is at the top left of the form editor. To the right, there is a 'Name' input field. Below the input field is a list of field types: Label, Text, Rich text, Text area, Number, Calculated, Drop-down, Radio button, Check box, Multi-choice, Drop-down, Date, Time, Date and time, Attachment, Link, User selection, Department selection, Group selection, and Person selection. The 'Drop-down' field type is highlighted with a blue selection box. The entire interface is set against a light gray background.



Configure the Drop-down field

Hover over the **Drop-down** field

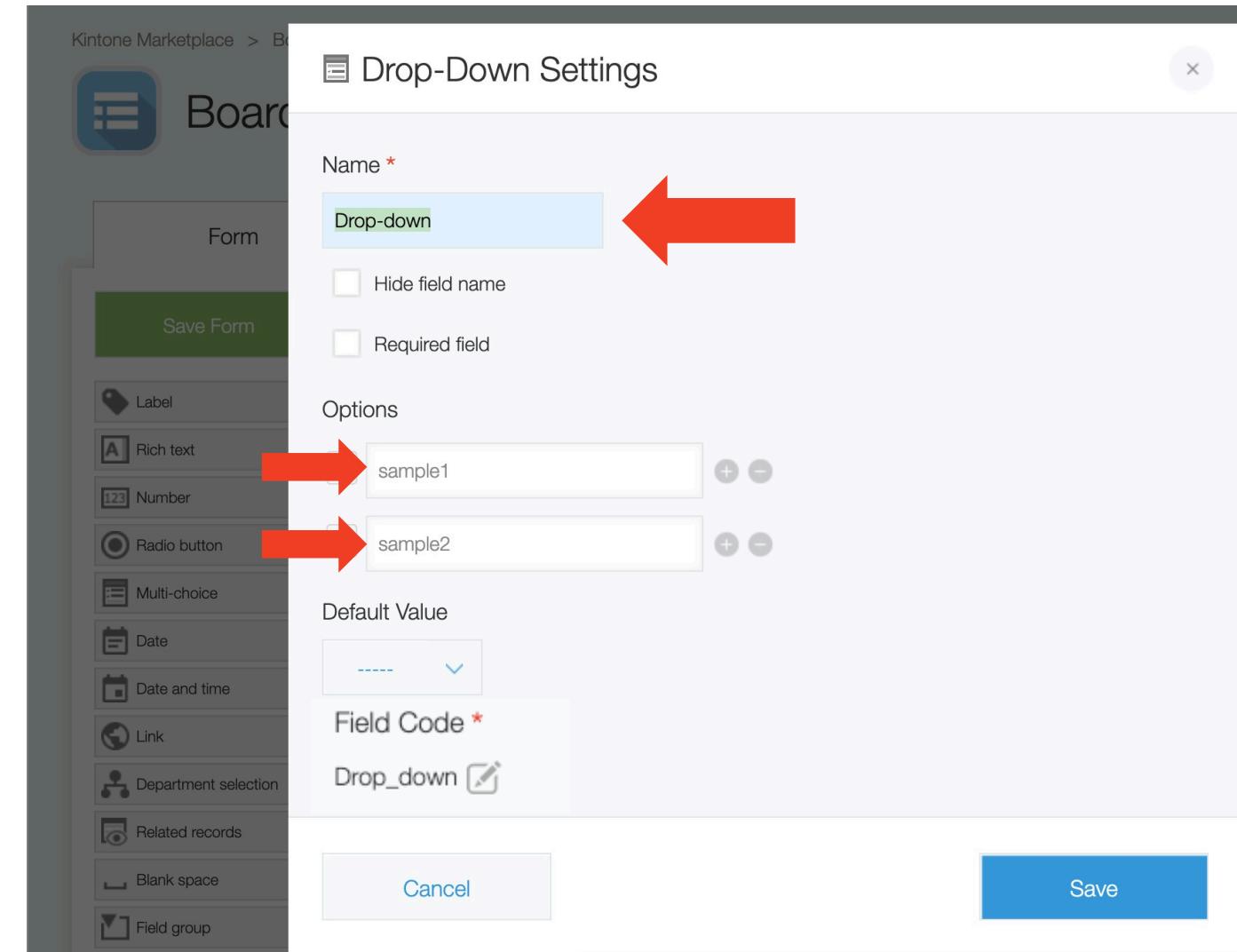
> Click on the Gear icon 

Replace the following text:

> "Drop-down" with **Type**

> "sample1" with **Abstract**

> "sample2" with **Area Control**



What are Field Codes?

The field code is the identifier for each field, represented as a string

- Name's field code = Text
- Type's field code = Drop_down

These are the default field code values for their respective fields

The image shows two side-by-side configuration screens from a mobile application builder.

Left Screen: Text Settings

- Name:** A text input field containing "Name".
- Options:**
 - Hide field name
 - Calculate automatically
 - Required field
 - Prohibit duplicate values
- Number of Characters (Note: Us):** Minimum and Maximum input fields.
- Default Value:** An empty text input field.
- Field Code ***: A text input field containing "Text". It is highlighted with a red border and has a red arrow pointing to it.

Right Screen: Drop-Down Settings

- Name:** A text input field containing "Type". It is highlighted with a red border and has a red arrow pointing to it.
- Options:**
 - Hide field name
 - Required field
- Default Value:** A dropdown menu showing "----".
- Field Code ***: A text input field containing "Drop_down". It is highlighted with a red border and has a red arrow pointing to it.



Save / Deploy the App!

Once you are finished setting up the fields, click **Activate App** to deploy it.

*Apps can always be updated later on

The screenshot shows the kintone application interface. At the top, there is a navigation bar with the kintone logo, user profile, and search bar. Below the navigation bar, the breadcrumb path reads "Kintone Marketplace > Board Game DB > Settings". The main title "Board Game DB" is displayed next to a blue icon. On the right side of the screen, there are two buttons: "Discard" and "Activate App". A red box highlights the "Activate App" button, and a red arrow points to it from below. Below the title, there are four tabs: "Form", "Views", "Graphs", and "App Settings". The "App Settings" tab is currently selected. In the "App Settings" section, there are input fields for "Name" and "Type". To the left of the "App Settings" section, there is a "Save Form" button in a green box and a list of field types with their icons: Label, Text, Rich text, Text area, Number, Calculated, Radio button, Check box, Multi-choice, Drop-down, Date, Time, Date and time, and Attachment. Each field type has a small edit icon to its right.



Save / Deploy the App!

The screenshot shows the Kintone app interface. At the top, there's a navigation bar with a 'Portal' button, which is highlighted with a red box and a red arrow pointing to it from the left. Below the navigation bar, the title 'Board Game DB' is displayed. The main area shows a table with columns for 'Record number', 'Name', and 'Type'. The first row contains '(None)' in all columns. At the bottom of the table, it says 'Records 0 - 0 of 0'. There are also various UI elements like a search bar, filters, and a plus sign icon.

Portal

Board Game DB

App: Board Game DB

(All records)

Records 0 - 0 of 0

Record number Name Type

(None)

Records 0 - 0 of 0

Congrats!

You made your first
Kintone App!

Record View of the Board Game DB

This **Board Game DB** App is now accessible to any users in your Kintone environment

It is under the **Apps** section

The screenshot shows the Kintone Portal interface. At the top, there's a navigation bar with icons for Home, Announcements, and Favorites, along with a search bar labeled "Search All Contents". Below the navigation bar is a banner image of green leaves with water droplets. The main content area is titled "Portal" and features a section for "Announcement" with a megaphone icon and the text "Welcome to Kintone!". Below this, there's a section titled "How to use Kintone" with a link to "How to use the Announcements dashboard". To the right, there's a sidebar titled "Spaces" with sections for "Joined Spaces" (listing "(None)" and "All Spaces") and "Apps". Under "Apps", there's a section titled "All Apps" with a list that includes the "Board Game DB" app, which is highlighted with a red box and a large red arrow pointing to it.

CLICK! →

Aug 8, 2017 11:00 AM Administrator

Quick Overview of the App

The screenshot shows a Microsoft Power Apps application titled "Board game DB". The interface includes a navigation bar with a home icon and the app name, and a toolbar with filters and search icons. A message "Data you add to the App is listed here" points to the main data grid. The grid displays eight records of board games with columns for Record number, Name, Type, Min Players, and Max Players. Each row has edit and delete icons. A red box highlights the first two rows (records 1 and 2). A red line connects this box to the text "Access the Details page of the row (record)". Another red line connects the text "Data you add to the App is listed here" to the grid. A red arrow points from the text "Add new data" to the plus sign icon in the top right corner of the grid. A red arrow points from the text "Access the App's settings" to the gear icon in the top right corner of the grid.

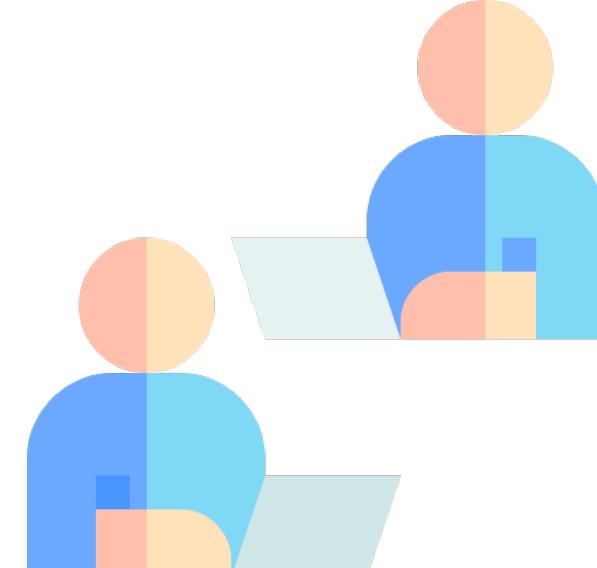
Record number	Name	Type	Min Players	Max Players
8	Love Letter	Social Deduction	2	4
7	Best Treehouse Ever	Drafting	2	4
6	El Grande	Area Control	2	5
5	Onitama	Abstract	2	2
4	A Fake Artist Goes to New York	Social Deduction	5	10
3	Ethnos	Area Control	2	6
2	Treasure Hunter	Drafting	2	6
1	Royal	Area Control	2	5



Time To Get Started!

1. Go to the Kintone Portal page
2. Apps section > (+) Button
3. Create App from Scratch
4. Drag-&-Drop the **Text field**, name it **Name**
5. Drag-&-Drop the **Drop-down field**, name it **Type**
6. Add 3x options {Abstract, Area Control, & Drafting}
7. Hit the Blue **Activate App**
8. Raise Hand on Zoom when you are done

Want the Slides? Hit the
Download ZIP button at
bit.ly/KDP_Timeline



Want to Win a
**\$25 Amazon
Gift Card?**

Stay tuned till the
end & fill out our
quick survey



Short Break
10 min break

Today's Agenda

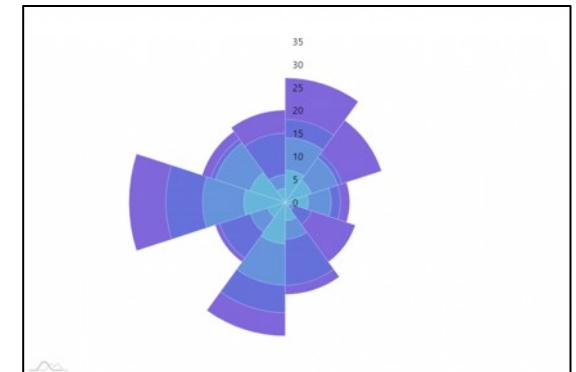
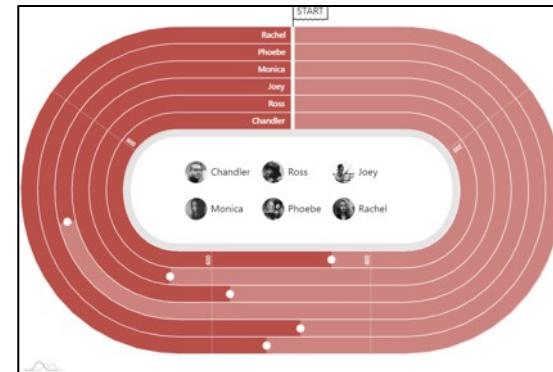
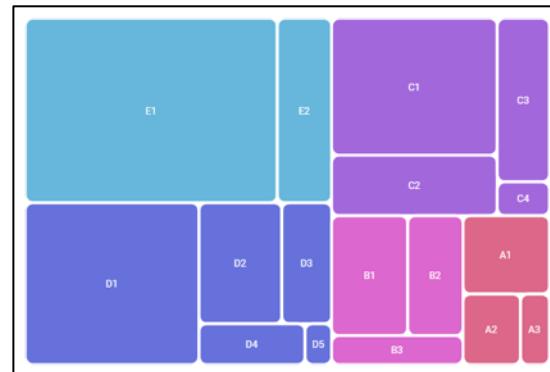
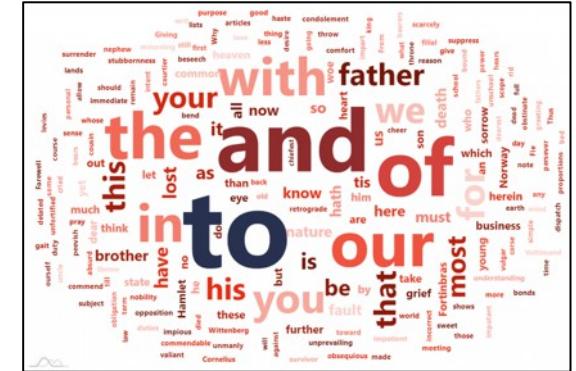
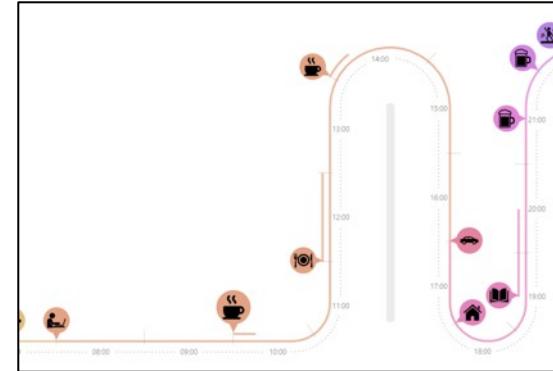
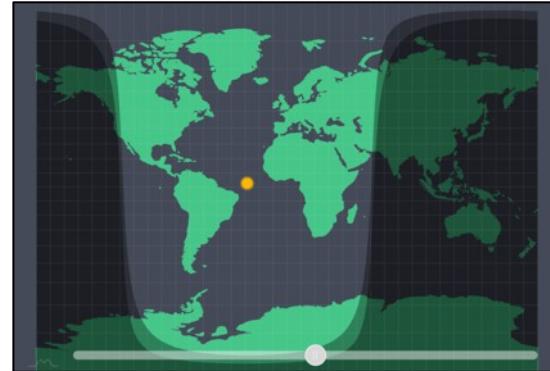
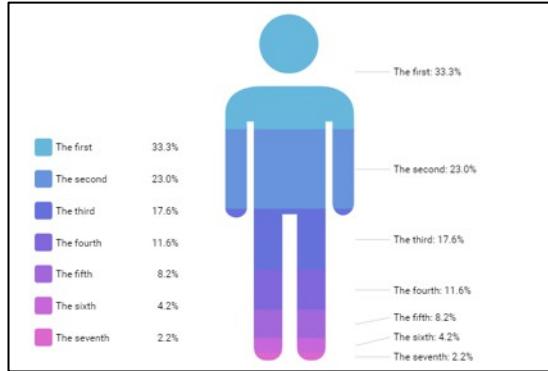
- 1 Get the Big Picture
- 2 Create a Kintone App
- 3 Display amCharts on Kintone
- 4 Call REST APIs from Kintone

What is amCharts?



www.amcharts.com

What Does amCharts Offer?



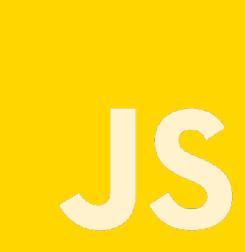
www.amcharts.com

How to Use amCharts (Front-End JavaScript)



Define website details

```
<html>
  <body>
    <h1>My Graph</h1>
    <div id="chartdiv"></div>
  </body>
</html>
```



Read libraries

```
<script src="https://www.amcharts.com/lib/4/core.js"></script>
<script src="https://www.amcharts.com/lib/4/charts.js"></script>
```

Define chart details

```
// Create chart instance
var chart = am4core.create("chartdiv", am4charts.PieChart);
// Add and configure Series
var pieSeries = chart.series.push(new am4charts.PieSeries());
pieSeries.dataFields.value = "litres";
pieSeries.dataFields.category = "country";
```

Define data

```
// Add data
chart.data = [ {
  "country": "Lithuania",
  "litres": 501.9
}, {
  "country": "Czechia",
  "litres": 301.9
}, {
  "country": "Ireland",
  "litres": 201.1
}]
```

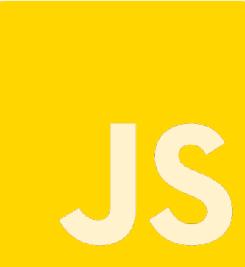
How to Use amCharts on Kintone?



Define website details

```
<html>
  <head>
    <title>My Graph</title>
  </head>
  <body>
    <div id="chartdiv"></div>
  </body>
</html>
```

We will use the Kintone platform's HTML



Read libraries

```
<script src="https://www.amcharts.com/lib/4/core.js"></script>
<script src="https://www.amcharts.com/lib/4/charts.js"></script>
```

We will set these links in the App's settings

Define chart details

```
// Create chart instance
var chart = am4core.create("chartdiv", am4charts.PieChart);
// Add and configure Series
var pieSeries = chart.series.push(new am4charts.PieSeries());
pieSeries.dataFields.value = "litres";
pieSeries.dataFields.category = "country";
```

Define data

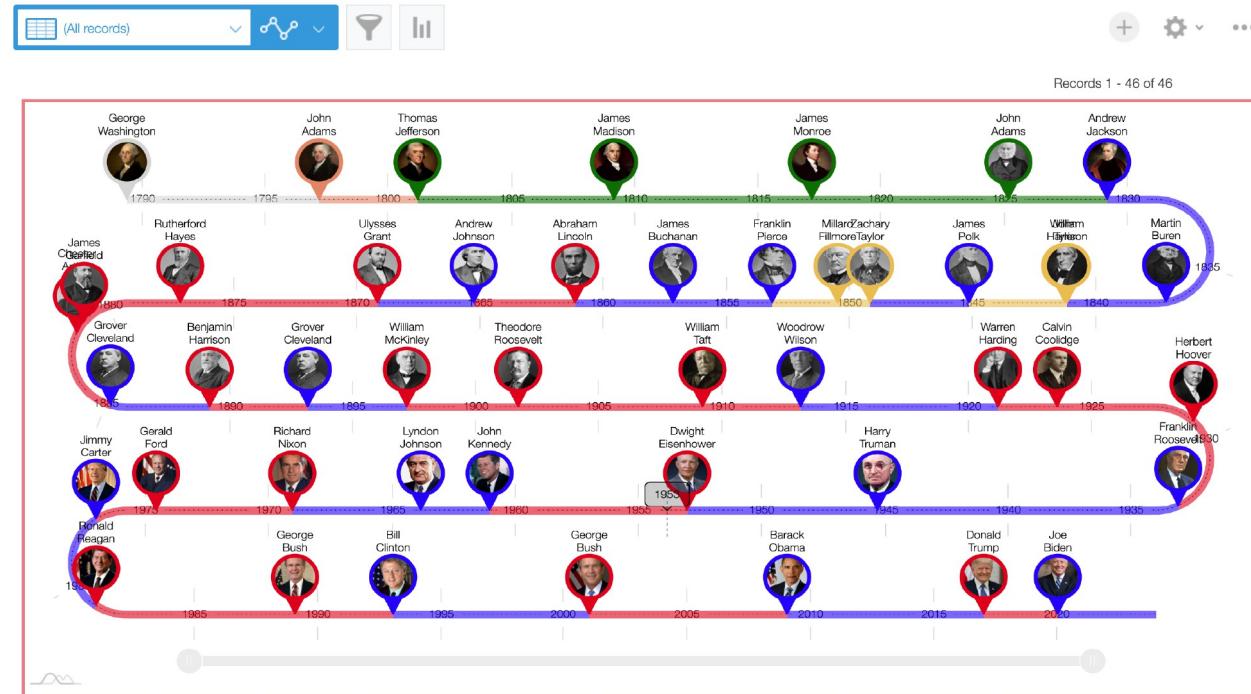
```
// Add data
chart.data = [
  {
    "country": "Ireland",
    "litres": 201.1
  },
  {
    "country": "Czechia",
    "litres": 301.9
  }
];
```

We will use the data that lies inside the Kintone Apps

Overview of amCharts on Kintone

In our next hands-on, we will create a new **App** from a **CSV** file.

We will then **add JavaScript** to the App that utilizes the **amCharts library**, so we can do some stylish data visualization.



Record number	Start Date	End Date	First Name	Last Name	Party	Wiki URL
46	Jan 20, 2020	Jan 20, 2024	Joe	Biden	Democratic	https://en.wikipedia.org/wiki/President_of_the_United_States
45	Jan 20, 2017	Jan 20, 2020	Donald	Trump	Republican	https://en.wikipedia.org/wiki/President_of_the_United_States
44	Jan 20, 2009	Jan 20, 2017	Barack	Obama	Democratic	https://en.wikipedia.org/wiki/President_of_the_United_States
43	Jan 20, 2001	Jan 20, 2009	George	Bush	Republican	https://en.wikipedia.org/wiki/President_of_the_United_States
42	Jan 20, 1993	Jan 20, 2001	Bill	Clinton	Democratic	https://en.wikipedia.org/wiki/President_of_the_United_States
41	Jan 20, 1989	Jan 20, 1993	George	Bush	Republican	https://en.wikipedia.org/wiki/President_of_the_United_States
40	Jan 20, 1981	Jan 20, 1989	Ronald	Reagan	Republican	https://en.wikipedia.org/wiki/President_of_the_United_States
39	Jan 20, 1977	Jan 20, 1981	Jimmy	Carter	Democratic	https://en.wikipedia.org/wiki/President_of_the_United_States

Hands-On Walk-Through

- 1** First, let's go over the steps to build the app
- 2** Then, build the app as an exercise



amCharts Customization for Kintone

1. Create a new Kintone App from a CSV file
2. Add amCharts libraries to the App
3. Add a custom JavaScript file to the App
4. Redeploy the Kintone App

amCharts Customization for Kintone

- 1. Create a new Kintone App from a CSV file**
2. Add amCharts libraries to the App
3. Add a custom JavaScript file to the App
4. Redeploy the Kintone App



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist:

http://bit.ly/KDP_Timeline

2. Create a Kintone App:
Portal > [+] button
3. Select Create from CSV
4. Continue & Upload CSV...

1	Start_Date	End_Date	First_Name	Last_Name	Pa
2	04/30/1789	03/04/1797	George	Washington	Ur
3	03/04/1797	03/04/1801	John	Adams	Fe
4	03/04/1801	03/04/1809	Thomas	Jefferson	De
5	03/04/1809	03/04/1817	James	Madison	De
6	03/04/1817	03/04/1825	James	Monroe	De
7	03/04/1825	03/04/1829	John	Adams	De



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist:

http://bit.ly/KDP_Timeline

2. Create a Kintone App:

The screenshot shows a GitHub Gist interface. At the top, there's a preview of the CSV file named "01_Data.csv". Below the preview, there's a search bar and a table header with columns: 1, Start_Date, End_Date, First_Name, Last_Name, and Pa. In the main list area, there are several files: "00_Timeline_Workshop.md", "01_Data.csv" (which is circled in red), "02_CDN_URLs.txt", "03_Script.js", "04_Survey.md", "05_xkcd.js", and "06_References.md". A red arrow points from the "01_Data.csv" file in the list to the same file name in the preview header. Another red arrow points from the "01_Data.csv" file in the list to the file icon.

1	Start_Date	End_Date	First_Name	Last_Name	Pa
1	2015-01-01	2015-01-02	John	Doe	1
2	2015-01-01	2015-01-02	Jane	Doe	2
3	2015-01-01	2015-01-02	Bob	Simpson	3
4	2015-01-01	2015-01-02	Sally	Simpson	4
5	2015-01-01	2015-01-02	Homer	Simpson	5
6	2015-01-01	2015-01-02	Marge	Simpson	6
7	2015-01-01	2015-01-02	Bart	Simpson	7
8	2015-01-01	2015-01-02	Lisa	Simpson	8
9	2015-01-01	2015-01-02	Maggie	Simpson	9
10	2015-01-01	2015-01-02	Abe	Simpson	10
11	2015-01-01	2015-01-02	Milhouse	Vander Dyke	11
12	2015-01-01	2015-01-02	Edna	Kowalski	12
13	2015-01-01	2015-01-02	Van	Gundy	13
14	2015-01-01	2015-01-02	Mr.	Nestor	14
15	2015-01-01	2015-01-02	Smithers	15	
16	2015-01-01	2015-01-02	Mr.	Plum	16
17	2015-01-01	2015-01-02	Albert	Wiggum	17
18	2015-01-01	2015-01-02	Millie	Wiggum	18
19	2015-01-01	2015-01-02	Mr.	Albert	19
20	2015-01-01	2015-01-02	Albert	Albert	20
21	2015-01-01	2015-01-02	Albert	Albert	21
22	2015-01-01	2015-01-02	Albert	Albert	22
23	2015-01-01	2015-01-02	Albert	Albert	23
24	2015-01-01	2015-01-02	Albert	Albert	24
25	2015-01-01	2015-01-02	Albert	Albert	25
26	2015-01-01	2015-01-02	Albert	Albert	26
27	2015-01-01	2015-01-02	Albert	Albert	27
28	2015-01-01	2015-01-02	Albert	Albert	28
29	2015-01-01	2015-01-02	Albert	Albert	29
30	2015-01-01	2015-01-02	Albert	Albert	30
31	2015-01-01	2015-01-02	Albert	Albert	31
32	2015-01-01	2015-01-02	Albert	Albert	32
33	2015-01-01	2015-01-02	Albert	Albert	33
34	2015-01-01	2015-01-02	Albert	Albert	34
35	2015-01-01	2015-01-02	Albert	Albert	35
36	2015-01-01	2015-01-02	Albert	Albert	36
37	2015-01-01	2015-01-02	Albert	Albert	37
38	2015-01-01	2015-01-02	Albert	Albert	38
39	2015-01-01	2015-01-02	Albert	Albert	39
40	2015-01-01	2015-01-02	Albert	Albert	40
41	2015-01-01	2015-01-02	Albert	Albert	41
42	2015-01-01	2015-01-02	Albert	Albert	42
43	2015-01-01	2015-01-02	Albert	Albert	43
44	2015-01-01	2015-01-02	Albert	Albert	44
45	2015-01-01	2015-01-02	Albert	Albert	45
46	2015-01-01	2015-01-02	Albert	Albert	46
47	2015-01-01	2015-01-02	Albert	Albert	47
48	2015-01-01	2015-01-02	Albert	Albert	48
49	2015-01-01	2015-01-02	Albert	Albert	49
50	2015-01-01	2015-01-02	Albert	Albert	50
51	2015-01-01	2015-01-02	Albert	Albert	51
52	2015-01-01	2015-01-02	Albert	Albert	52
53	2015-01-01	2015-01-02	Albert	Albert	53
54	2015-01-01	2015-01-02	Albert	Albert	54
55	2015-01-01	2015-01-02	Albert	Albert	55
56	2015-01-01	2015-01-02	Albert	Albert	56
57	2015-01-01	2015-01-02	Albert	Albert	57
58	2015-01-01	2015-01-02	Albert	Albert	58
59	2015-01-01	2015-01-02	Albert	Albert	59
60	2015-01-01	2015-01-02	Albert	Albert	60
61	2015-01-01	2015-01-02	Albert	Albert	61
62	2015-01-01	2015-01-02	Albert	Albert	62
63	2015-01-01	2015-01-02	Albert	Albert	63
64	2015-01-01	2015-01-02	Albert	Albert	64
65	2015-01-01	2015-01-02	Albert	Albert	65
66	2015-01-01	2015-01-02	Albert	Albert	66
67	2015-01-01	2015-01-02	Albert	Albert	67
68	2015-01-01	2015-01-02	Albert	Albert	68
69	2015-01-01	2015-01-02	Albert	Albert	69
70	2015-01-01	2015-01-02	Albert	Albert	70
71	2015-01-01	2015-01-02	Albert	Albert	71
72	2015-01-01	2015-01-02	Albert	Albert	72
73	2015-01-01	2015-01-02	Albert	Albert	73
74	2015-01-01	2015-01-02	Albert	Albert	74
75	2015-01-01	2015-01-02	Albert	Albert	75
76	2015-01-01	2015-01-02	Albert	Albert	76
77	2015-01-01	2015-01-02	Albert	Albert	77
78	2015-01-01	2015-01-02	Albert	Albert	78
79	2015-01-01	2015-01-02	Albert	Albert	79
80	2015-01-01	2015-01-02	Albert	Albert	80
81	2015-01-01	2015-01-02	Albert	Albert	81
82	2015-01-01	2015-01-02	Albert	Albert	82
83	2015-01-01	2015-01-02	Albert	Albert	83
84	2015-01-01	2015-01-02	Albert	Albert	84
85	2015-01-01	2015-01-02	Albert	Albert	85
86	2015-01-01	2015-01-02	Albert	Albert	86
87	2015-01-01	2015-01-02	Albert	Albert	87
88	2015-01-01	2015-01-02	Albert	Albert	88
89	2015-01-01	2015-01-02	Albert	Albert	89
90	2015-01-01	2015-01-02	Albert	Albert	90
91	2015-01-01	2015-01-02	Albert	Albert	91
92	2015-01-01	2015-01-02	Albert	Albert	92
93	2015-01-01	2015-01-02	Albert	Albert	93
94	2015-01-01	2015-01-02	Albert	Albert	94
95	2015-01-01	2015-01-02	Albert	Albert	95
96	2015-01-01	2015-01-02	Albert	Albert	96
97	2015-01-01	2015-01-02	Albert	Albert	97
98	2015-01-01	2015-01-02	Albert	Albert	98
99	2015-01-01	2015-01-02	Albert	Albert	99
100	2015-01-01	2015-01-02	Albert	Albert	100



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist: [bit.ly/KDP_Timeline](https://gist.github.com/kintone-developer/1234567890)
2. **Create a Kintone App:**
Portal > [+] button
3. Select Create from CSV
4. Continue & Upload CSV...

The screenshot shows the Kintone Portal interface. At the top, there's a navigation bar with icons for Home, Bell, Star, Settings, and Help, followed by a search bar labeled "Search All Contents". Below the header is a green banner with water droplets. The main content area displays the "Announcement" dashboard, which includes a welcome message, a description of Kintone as a teamwork platform, and links to "How to use Kintone" and "How to use the Announcements dashboard". To the right, there's a sidebar with sections for "Spaces" (listing "Joined Spaces" and "All Spaces"), "Apps" (listing "All Apps" and "Board Game DB"), and a prominent red arrow pointing to a red-bordered "+" button. At the bottom, the footer shows the date "Aug 8, 2017 11:00 AM" and the user "Administrator".



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist: bit.ly/KDP_Timeline
2. Create a Kintone App:
Portal > [+] button
3. Select Create from CSV
4. Continue & Upload CSV

Kintone Marketplace

Marketplace Search

By Department

- Sales
- Customer Service
- Human Resources
- IT & Administration
- Research & Development
- Marketing
- Legal & Finance
- Company-wide

How to Find Apps?

Choose from the list of FREE business productivity apps or use our app builder to make your own app.

Click the left category names to look for apps in the Kintone Marketplace, or enter a keyword in the search box.

Create New App

- Create App from Scratch
- Create from CSV** (highlighted by a red box)
- Create from Excel
- Create from Template File
- Create from Existing App



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist
2. Create a Kintone App
3. Select Create from CSV
4. Continue & Upload CSV
 - Continue button
 - Check all button
 - Continue to the Upload button
 - Upload the CSV file
 - Scroll down to the Convert button

The screenshot shows the 'Create a Kintone App from a CSV File (Step 1 of 3)' screen. At the top, there's a navigation bar with icons for menu, home, notifications, and stars, along with 'Search All Contents'. Below the title, there's an illustration of a document with the letter 'a,' followed by a yellow arrow pointing to a lit lightbulb. The text 'You can create a Kintone App from an CSV file.' is displayed. A note below it says, 'If you want to add records to an existing app, please use [Importing records](#) feature of the app.' At the bottom right, there are two buttons: 'Cancel & Exit' and a blue 'Continue' button, which is highlighted with a red box and a large red arrow pointing to it.



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist
2. Create a Kintone App
3. Select Create from CSV

4. Continue & Upload CSV

- Continue button
- Check all button
- Continue to the Upload button
- Upload the CSV file
- Scroll down to the Convert button

Kintone Marketplace > Create from CSV

Prepare a CSV File (Step 2 of 3)

Open the CSV file and format the contents accordingly.

The first row contains the column names (at least one character, and no more than 128 characters). *

The number of columns (rows) must be 100 or less. *

The import limit is no more than 100,000 rows. *

The file size must be 100 MB or smaller. *

[Check all](#)

Please refer to the [help](#) for details about how to prepare CSV files.

Column name

A	B	C	D
Contact Date	Department	Name	Age
12/01/17	Sales	Chris	35-44
12/01/17	Sales	Chris	35-44
12/01/17	Sales	Chris	35-44
12/01/17	Sales	Chris	35-44
12/01/17	Sales	Chris	35-44

Data (Maximum 100,000 rows)

Maximum 100 columns

Cancel & Exit Back Continue to the Upload screen



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist
2. Create a Kintone App
3. Select Create from CSV
4. Continue & Upload CSV

- Continue button
- Check all button
- Continue to the Upload button
- Upload the CSV file
- Scroll down to the Convert button

Kintone Marketplace > Create from CSV

Prepare a CSV File (Step 2 of 3)

Open the CSV file and format the contents accordingly.

The first row contains the column names (at least one character, and no more than 128 characters). *

The number of columns (items) must be 100 or less. *

The import file contains no more than 100,000 rows. *

The file size must be 100 MB or smaller. *

[Check all](#)

Please refer to the [help](#) for details about how to prepare CSV files.

Cancel & Exit Back **Continue to the Upload screen**

	A	B	C	D
1	Contact Date	Department	Name	Age
2	12/01/17	Sales	Chris	35-44
3	12/01/17	Sales	Chris	35-44
4	12/01/17	Sales	Chris	35-44
5	12/01/17	Sales	Chris	35-44
6	12/01/17	Sales	Chris	35-44

Column name

Data (Maximum 100,000 rows)

Maximum 100 columns



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist
2. Create a Kintone App
3. Select Create from CSV
4. Continue & Upload CSV
 - Continue button
 - Check all button
 - Continue to the Upload button
 - Upload the CSV file
 - Scroll down to the Convert button

Kintone Marketplace > Create from CSV

Create a Kintone App by Importing a CSV File (Step 3 of 3)

1 Upload a CSV File

Click "Browse" to select a file.

Browse Maximum: 100 MB

Cancel & Exit Back Convert



Create a new Kintone App from a CSV file

1. Get the CSV file from the Gist

2. Create a Kintone App

3. Select Create from CSV

4. Continue & Upload CSV

- Continue button

- Check all button

- Continue to the Upload button

- Upload the CSV file

- Scroll down to the Convert button

Kintone Marketplace > Create from CSV

Create a Kintone App by Importing a CSV File (Step 3 of 3)

1 Upload a CSV File

Click "Browse" to select a file.

01_Data.csv 5 KB

Browse (Maximum: 100 MB)

2 Check the Preview

The table below shows the preview of the App with your data.
Ensure that the first row of the preview table (top-most row with white background) shows the column names. Partial sample data is shown in the second row and after.

Total Records: 46 Character Encoding: English (Latin1) Delimiter: Comma

Start_Date	End_Date	First_Name	Last_Name	Party	Wiki_URL
04/30/1789	03/04/1797	George	Washington	Unaffiliated	https://en.wikipedia.org/wiki/Presidency_of_George_Washington
03/04/1797	03/04/1801	John	Adams	Federalist	https://en.wikipedia.org/wiki/Presidency_of_John_Adams
03/04/1801	03/04/1809	Thomas	Jefferson	Democratic-Republican	https://en.wikipedia.org/wiki/Presidency_of_Thomas_Jefferson
03/04/1809	03/04/1817	James	Madison	Democratic-Republican	https://en.wikipedia.org/wiki/Presidency_of_James_Madison

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Create a new Kintone App from a CSV file

For Party Field

Change it to Drop-down

3 Start Converting to an App

Set a field type for each column, then click "Convert" button at the bottom of the screen.
However, field type settings are not mandatory, because Kintone has automatically selected recommended field types.

Field Name (Column Name)	Field Type
Start_Date	Date MM/DD/YYYY (12/31/2021)
End_Date	Date MM/DD/YYYY (12/31/2021)
First_Name	Text
Last_Name	Text
Party	Text
Wiki_URL	Link to (URL)

A red arrow points to the "Text" dropdown menu for the "Party" field, indicating it needs to be changed to a dropdown list.

Cancel & Exit Back Convert



Create a new Kintone App from a CSV file

For Party Field

Change it to Drop-down

3 Start Converting to an App

Set a field type for each column, then click "Convert" button at the bottom of the screen.
However, field type settings are not mandatory, because Kintone has automatically selected recommended field types.

Field Name (Column Name)	Field Type
Start_Date	(Skip this row) <input checked="" type="checkbox"/> Text Text area Rich text Radio button Drop-down ← Red arrow pointing here Link to (Telephone number) User selection Department selection Group selection Category
End_Date	MM/DD/YYYY (12/31/2021) <input type="button" value="▼"/>
First_Name	
Last_Name	
Party	Text <input type="button" value="▼"/>
Wiki_URL	Link to (URL) <input type="button" value="▼"/>

Cancel & Exit **Back** **Convert** 68



Create a new Kintone App from a CSV file

For Party Field

Change it to Drop-down

3 Start Converting to an App

Set a field type for each column, then click "Convert" button at the bottom of the screen.
However, field type settings are not mandatory, because Kintone has automatically selected recommended field types.

Field Name (Column Name)	Field Type
Start_Date	Date MM/DD/YYYY (12/31/2021)
End_Date	Date MM/DD/YYYY (12/31/2021)
First_Name	Text
Last_Name	Text
Party	Drop-down
Wiki_URL	Link to (URL)

A large red arrow points downwards from the "Party" field row towards the "Convert" button.

Cancel & Exit Back **Convert**

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amCharts Customization for Kintone

1. Create a new Kintone App from a CSV file
- 2. Add amCharts libraries to the App**
3. Add a custom JavaScript file to the App
4. Redeploy the Kintone App



Add JavaScript Libraries to the App

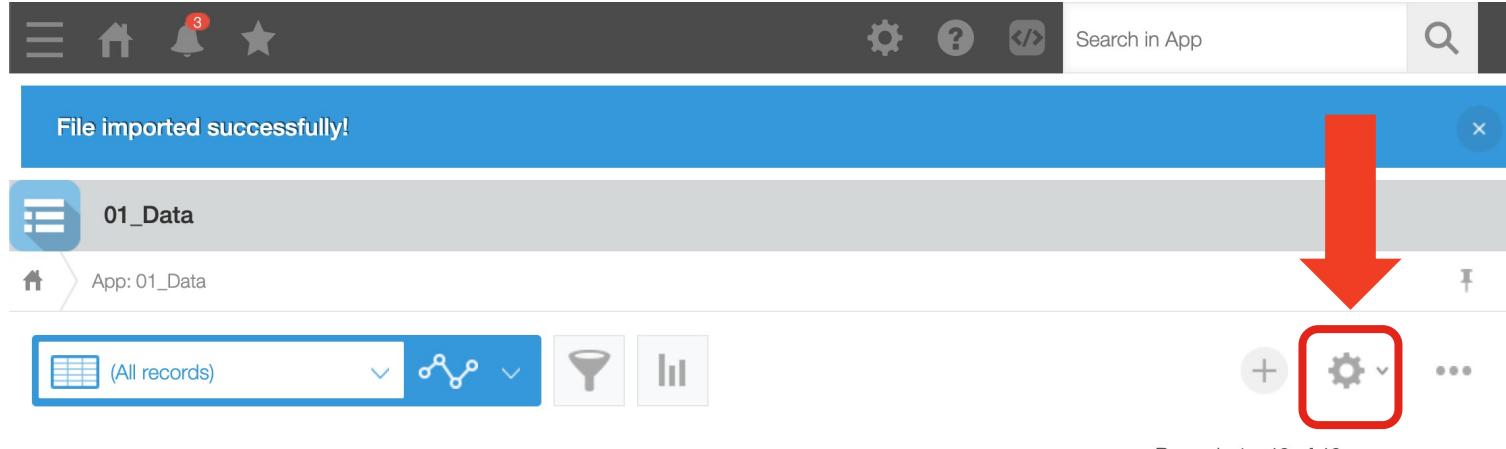
1. Find and click on the newly created app
2. Click on the Gear icon for the App's settings
3. Navigate to the App Settings tab
4. Find the JavaScript and CSS Customization option in the middle.

The screenshot shows the Kintone portal interface. At the top, there is a navigation bar with icons for Home, Bell, Star, Settings, and Help, followed by a search bar labeled "Search All Contents". Below the navigation bar, the title "Portal" is displayed over a green leaf background banner. The main content area features an "Announcement" card with a megaphone icon, the title "Welcome to Kintone!", and a description of Kintone as a teamwork platform. To the right of the announcement card is a sidebar titled "Spaces" which lists "Joined Spaces" and "(None) All Spaces". Further down the page is a section titled "Apps" which lists "All Apps", "01_Data", and "Board Game DB". A red arrow points to the "01_Data" app entry in the apps list. At the bottom of the screen, there is a footer with the date "Aug 8, 2017 11:00 AM" and the name "Administrator".



Add JavaScript Libraries to the App

1. Find and click on the newly created app
2. **Click on the Gear icon  for the App's settings**
3. Navigate to the App Settings tab
4. Find the JavaScript and CSS Customization option in the middle.



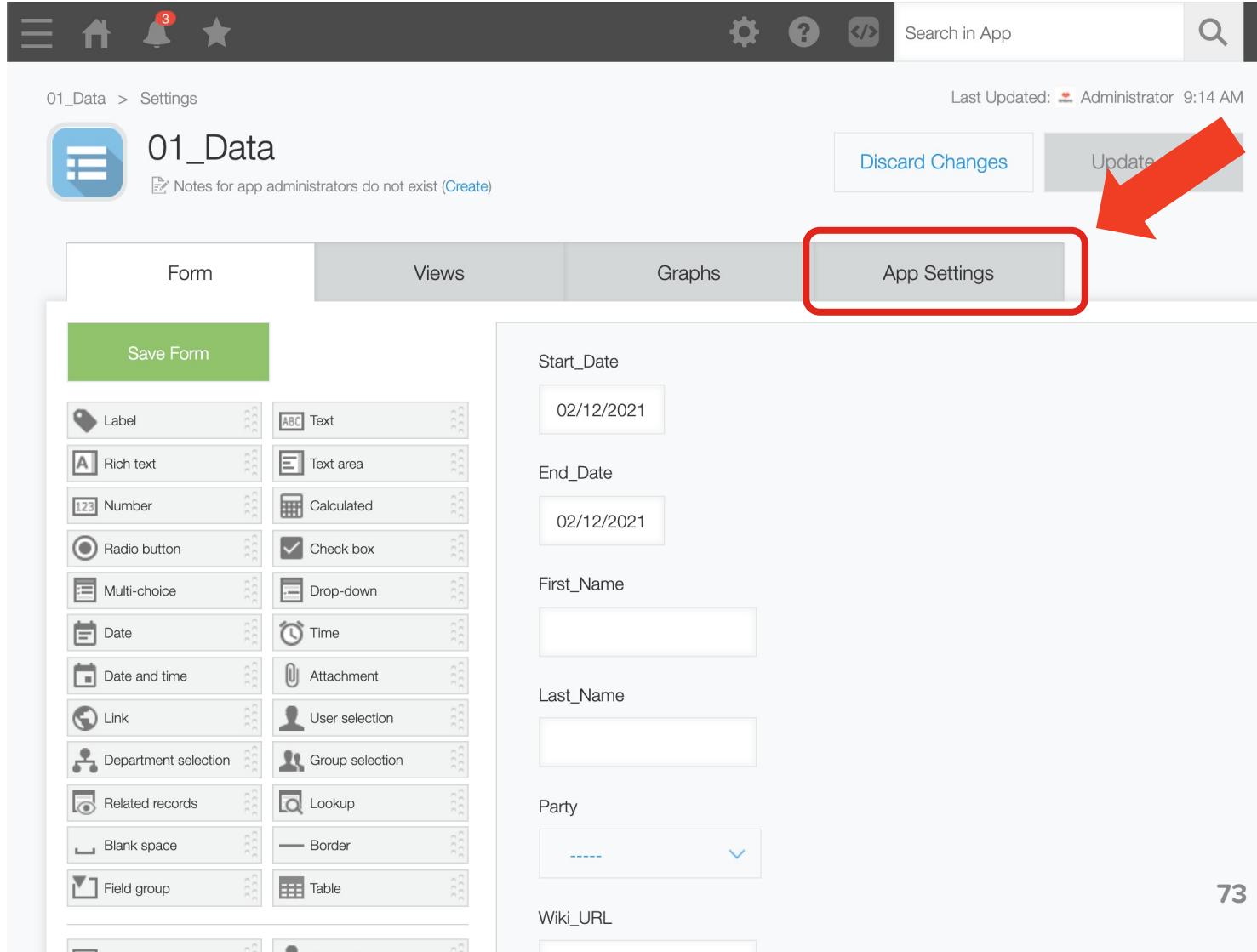
The screenshot shows the amCharts application interface. At the top, there is a navigation bar with icons for file, home, notifications (with 3 notifications), star, settings, help, and code editor, followed by a search bar labeled "Search in App". Below the navigation bar, a blue banner displays the message "File imported successfully!". The main area shows a list titled "01_Data" under "App: 01_Data". A toolbar below the list includes filters for "(All records)", a chart icon, a funnel icon, and a list icon. On the far right of the toolbar is a gear icon, which is highlighted with a red box and a large red arrow pointing to it from the right side of the image. The main content area is a table with columns: Record number, Start_Date, End_Date, First_Name, Last_Name, Party, and Wiki_URL. The table contains 46 records, with the first few rows showing data for Biden, Trump, Obama, Bush, Clinton, George, Bush, and Carter. Each row has edit and delete icons at the end.

	Record number	Start_Date	End_Date	First_Name	Last_Name	Party	Wiki_URL	
46	46	Jan 20, 2020	Jan 20, 2024	Joe	Biden	Democratic	https://en.wikipedia.org/wiki/Joe_Biden	 
45	45	Jan 20, 2017	Jan 20, 2020	Donald	Trump	Republican	https://en.wikipedia.org/wiki/Donald_Trump	 
44	44	Jan 20, 2009	Jan 20, 2017	Barack	Obama	Democratic	https://en.wikipedia.org/wiki/Barack_Obama	 
43	43	Jan 20, 2001	Jan 20, 2009	George	Bush	Republican	https://en.wikipedia.org/wiki/George_W._Bush	 
42	42	Jan 20, 1993	Jan 20, 2001	Bill	Clinton	Democratic	https://en.wikipedia.org/wiki/Bill_Clinton	 
41	41	Jan 20, 1989	Jan 20, 1993	George	Bush	Republican	https://en.wikipedia.org/wiki/George_H._W._Bush	 
40	40	Jan 20, 1981	Jan 20, 1989	Ronald	Reagan	Republican	https://en.wikipedia.org/wiki/Ronald_Reagan	 
39	39	Jan 20, 1977	Jan 20, 1981	Jimmy	Carter	Democratic	https://en.wikipedia.org/wiki/Jimmy_Carter	 



Add JavaScript Libraries to the App

1. Find and click on the newly created app
2. Click on the Gear icon  for the App's settings
3. **Navigate to the App Settings tab**
4. Find the JavaScript and CSS Customization option in the middle.

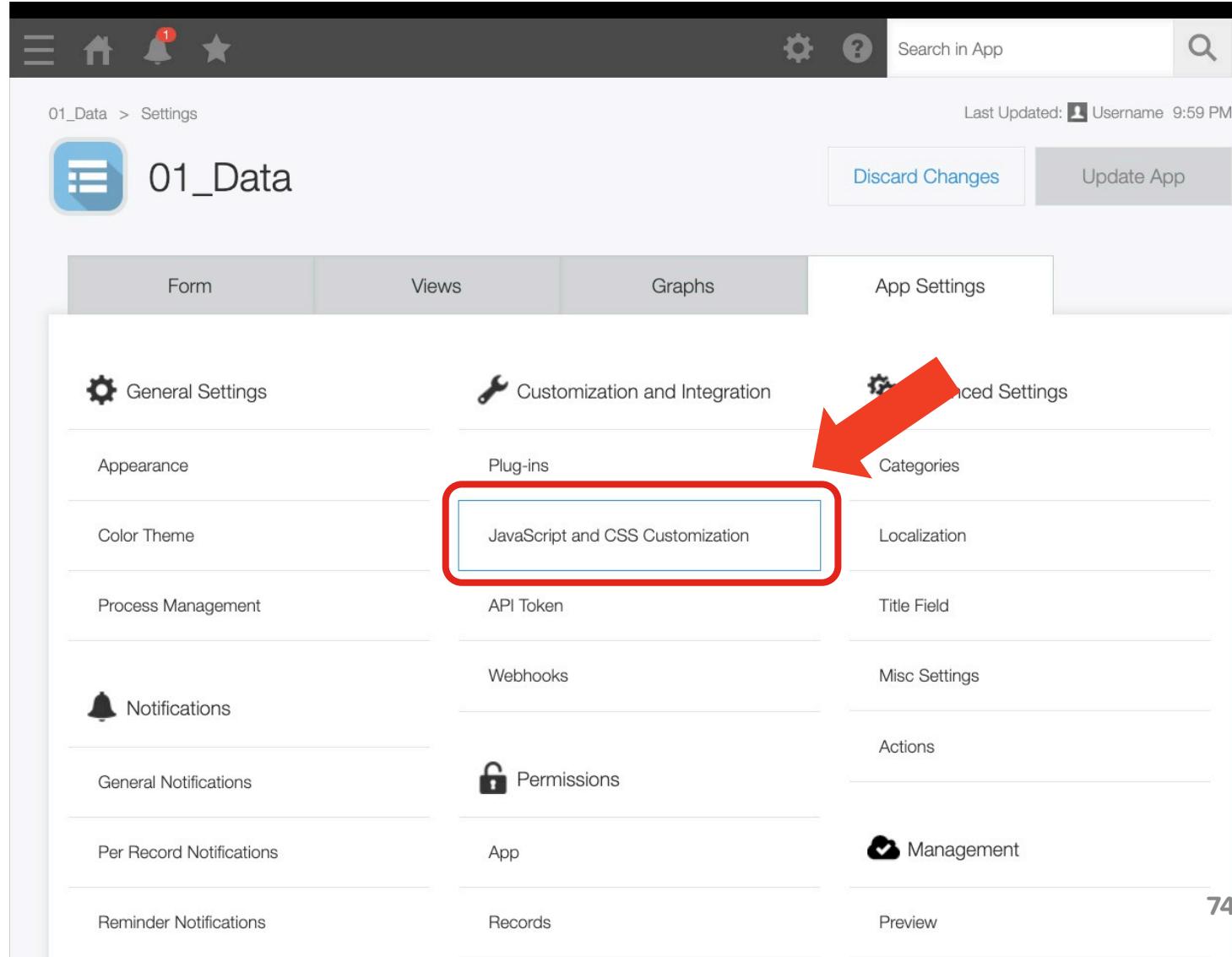


The screenshot shows the '01_Data' app settings page. At the top, there are navigation icons (three bars, home, bell with 3 notifications, star), a search bar ('Search in App'), and a status message ('Last Updated: Administrator 9:14 AM'). Below the header, the app name '01_Data' is displayed with a blue icon. A note says 'Notes for app administrators do not exist (Create)'. There are four tabs: 'Form', 'Views', 'Graphs', and 'App Settings', with 'App Settings' highlighted by a red box and an arrow pointing to the 'Update' button. On the left, a sidebar lists various field types with icons: Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Related records, Blank space, Field group, Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User selection, Group selection, Lookup, Border, and Table. To the right, several input fields are shown with placeholder values: Start_Date (02/12/2021), End_Date (02/12/2021), First_Name, Last_Name, Party (dropdown menu), and Wiki_URL.



Add JavaScript Libraries to the App

1. Find and click on the newly created app
2. Click on the Gear icon  for the App's settings
3. Navigate to the App Settings tab
- 4. Find the JavaScript and CSS Customization option in the middle.**



The screenshot shows the 'App Settings' tab selected in the navigation bar. The 'Plug-ins' section contains a sub-section titled 'JavaScript and CSS Customization', which is highlighted with a red box and a red arrow pointing to it from the right side. Other options in the 'Plug-ins' section include 'API Token', 'Webhooks', and 'Permissions'. The 'Categories' section includes 'General Settings', 'Customization and Integration', 'Localization', 'Title Field', 'Misc Settings', 'Actions', 'Management', and 'Preview'. The 'Notifications' section includes 'General Notifications', 'Per Record Notifications', and 'Reminder Notifications'.



Add JavaScript Libraries to the App

Under **Upload JavaScript for PC**, click on **Add Link** to add the following amCharts libraries in order:

[https://www.amcharts.com/lib/4/**core.js**](https://www.amcharts.com/lib/4/core.js)

[https://www.amcharts.com/lib/4/**charts.js**](https://www.amcharts.com/lib/4/charts.js)

[https://cdn.amcharts.com/lib/4/**plugins/timeline.js**](https://cdn.amcharts.com/lib/4/plugins/timeline.js)

[https://cdn.amcharts.com/lib/4/**plugins/bullets.js**](https://cdn.amcharts.com/lib/4/plugins/bullets.js)

[https://cdn.amcharts.com/lib/4/**themes/animated.js**](https://cdn.amcharts.com/lib/4/themes/animated.js)

Don't click on the top blue Save button yet!

The screenshot shows the amCharts app's configuration interface. At the top, there are navigation icons (three horizontal lines, home, bell with a '1', star) and a breadcrumb path: 01_Data > Settings > JavaScript and CSS Customization. Below this is a toolbar with 'Save' and 'Cancel' buttons. The main area is titled 'JavaScript and CSS Customization'. It contains a descriptive text about customizing the app with JavaScript and CSS, a link to 'JavaScript Coding Guidelines', and three radio buttons for 'Scope of Customization': 'Affect all users' (selected), 'Affect only app administrators', and 'Disable'. Below this is a section for 'Upload JavaScript for PC' with 'Add Link' and 'Add File' buttons (maximum 20 MB). A red arrow points to the 'Add Link' button. Another section for 'Upload JavaScript File for Mobile Devices' is also visible at the bottom.

amCharts Customization for Kintone

1. Create a new Kintone App from a CSV file
2. Add amCharts libraries to the App
- 3. Add a custom JavaScript file to the App**
4. Redeploy the Kintone App



Add a Custom JavaScript File to the App

1. Get the JavaScript file:
03_Script.js
bit.ly/KDP_Timeline
2. Click on Add File button & upload the JS file
3. Click on Save button
4. Click on Update App button



```
// amChart TimeLine x Kintone
(function () {
  'use strict';

  const partyColor = {
    'Democratic': '#2502fe',
    'Democratic-Republican': '#0e7003',
    'Federalist': '#e28665',
    'Republican': '#e0001b',
    'Unaffiliated': '#d5d5d5',
    'Whig': '#ebbd50'
  };

  // Kintone event triggered after the record list page is displayed.
  kintone.events.on('app.record.index.show', function (event) {

    // Peak inside Kintone's data
    console.log('event.records');
    console.log(event.records);
  });
})()
```



Add a Custom JavaScript File to the App

1. Get the JavaScript file:

03_Script.js

bit.ly/KDP_Timeline

2. Click on Add File button

The screenshot shows a code editor window with the file name "03_Script.js" at the top. The content of the file is as follows:

```
1 // amChart TimeLine x Kintone
2
3 (function () {
4   'use strict';
5
6   const partyColor = {
7     'Democratic': '#2502fe',
```

The screenshot shows a file manager interface with a dark theme. A red arrow points to the "03_Script.js" file, which is highlighted with a red rounded rectangle. The file is located in a folder containing several other files: "MD", "CSV", "02_CDN_URLs.txt", "03_Script.js", "MD", "JS", and "MD". The file names are: "00_Timeline_Workshop.md", "01_Data.csv", "02_CDN_URLs.txt", "03_Script.js", "04_Survey.md", "05_xkcd.js", and "06_References.md".



Add a Custom JavaScript File to the App

1. Get the JavaScript file:
03_Script.js
2. Click on Add File button
& upload the JS file
3. Click on Save button
4. Click on Update App
button

The screenshot shows the 'JavaScript and CSS Customization' settings page. At the top, there are tabs for '01_Data', 'Settings', and 'JavaScript and CSS Customization'. Below the tabs are 'Save' and 'Cancel' buttons. The main area has a title 'JavaScript and CSS Customization' with a help link. It contains instructions about customizing an app with JavaScript and CSS, mentioning the 'JavaScript coding guideline'. There's a section for 'Scope of Customization' with three radio button options: 'Affect all users' (selected), 'Affect only app administrators', and 'Disable'. Below this is a 'Upload JavaScript for PC' section where five links to CDN URLs are listed. A red callout with the text 'Add 03_Script.js file here' points to the 'Add File' button at the bottom of the list. The 'Add File' button is highlighted with a red border.

01_Data Settings JavaScript and CSS Customization

Save Cancel

JavaScript and CSS Customization ? Help

You can customize an app with JavaScript and CSS. As for the JavaScript development, confirm the [JavaScript coding guideline](#).

Scope of Customization

Affect all users Affect only app administrators Disable

Upload JavaScript for PC

https://cdn.amcharts.com/lib/4/core.js
https://cdn.amcharts.com/lib/4/charts.js
https://cdn.amcharts.com/lib/4/plugins/time.js
https://cdn.amcharts.com/lib/4/plugins/bullet.js
https://cdn.amcharts.com/lib/4/themes/animated.js

Add 03_Script.js file here

Add Link Add File (Maximum: 20 MB)



Add a Custom JavaScript File to the App

1. Get the JavaScript file:
03_Script.js
2. Click on Add File button &
upload the JS file
3. Click on Save button
4. Click on Update App
button

The screenshot shows the 'JavaScript and CSS Customization' section of the amCharts app. At the top, there's a navigation bar with tabs: '01_Data', 'Settings', and 'JavaScript and CSS Customization'. Below the tabs is a toolbar with a 'Save' button (which has a red border and a red arrow pointing to it) and a 'Cancel' button. The main content area is titled 'JavaScript and CSS Customization' with a 'Help' link. It contains instructions about customizing an app with JavaScript and CSS, mentioning the 'JavaScript coding guideline'. There are three radio buttons for 'Scope of Customization': 'Affect all users' (selected), 'Affect only app administrators', and 'Disable'. Below this is a section for 'Upload JavaScript for PC' with a list of URLs for AmCharts libraries, each with a delete 'x' icon. The URLs listed are:

- https://cdn.amcharts.com/lib/4/core.js
- https://cdn.amcharts.com/lib/4/charts.js
- https://cdn.amcharts.com/lib/4/plugins/timeline.js
- https://cdn.amcharts.com/lib/4/plugins/bullets.js
- https://cdn.amcharts.com/lib/4/themes/animated.js

At the bottom of the list is a file entry for '03_Script.js' with a size of '5 KB' and a delete 'x' icon.

amCharts Customization for Kintone

1. Create a new Kintone App from a CSV file
2. Add amCharts libraries to the App
3. Add a custom JavaScript file to the App
- 4. Redeploy the Kintone App**



Redeploy the Kintone App

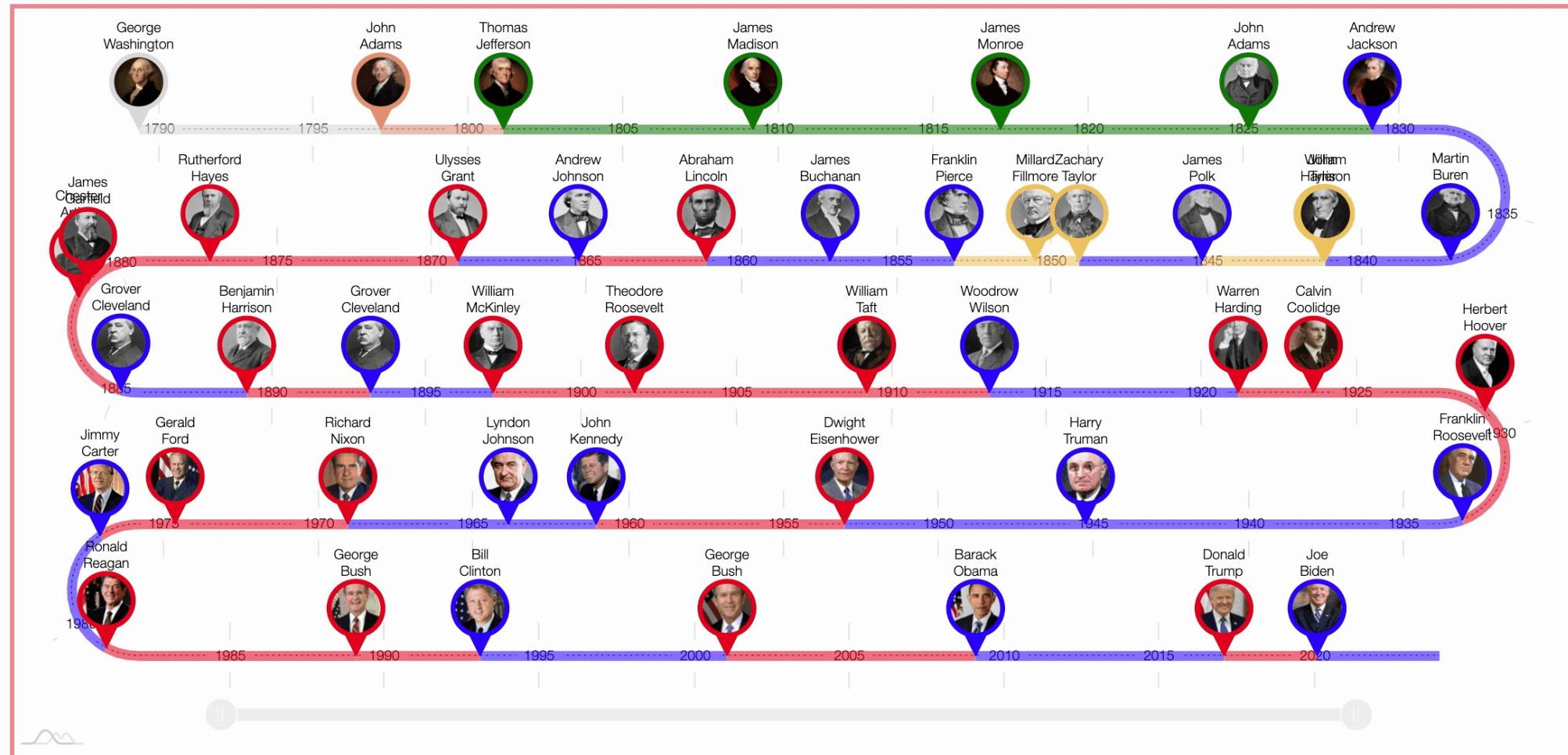
1. Get the JavaScript file:
03_Script.js
2. Click on Add File button
& upload the JS file
3. Click on Save button
4. Click on Update App
button

This will apply the changes made (adding libraries & JS file)

The screenshot shows the '01_Data' app settings page. At the top right, there are 'Discard Changes' and 'Update App' buttons, with 'Update App' being highlighted by a red box and an arrow pointing to it. The page is divided into several sections: General Settings, Appearance, Color Theme, Process Management, Notifications, General Notifications, Per Record Notifications, Reminder Notifications, Customization and Integration, Plug-ins, JavaScript and CSS Customization, API Token, Webhooks, Permissions, App, Records, Advanced Settings, Categories, Localization, Title Field, Misc Settings, Actions, and Management. The 'App Settings' tab is selected.



Results

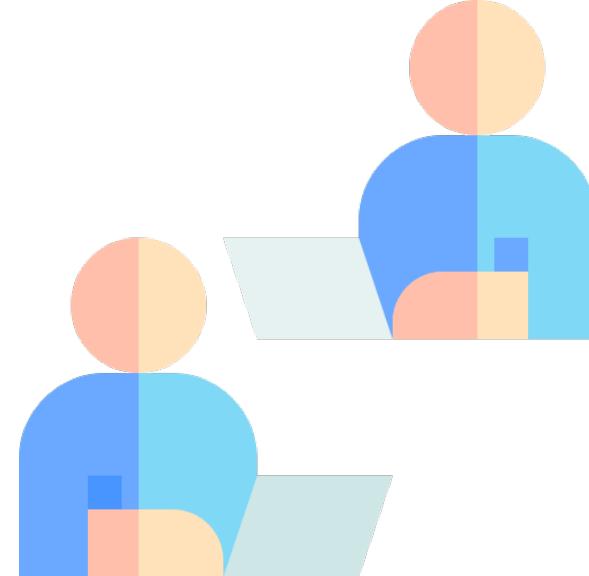


Record number	Start_Date	End_Date	First_Name	Last_Name	Party	Wiki_URL↓	Edit	Delete
46	Jan 20, 2020	Jan 20, 2024	Joe	Biden	Democratic	https://en.wikipedia.org/wiki/President... ...		
45	Jan 20, 2017	Jan 20, 2020	Donald	Trump	Republican	https://en.wikipedia.org/wiki/President... ...		

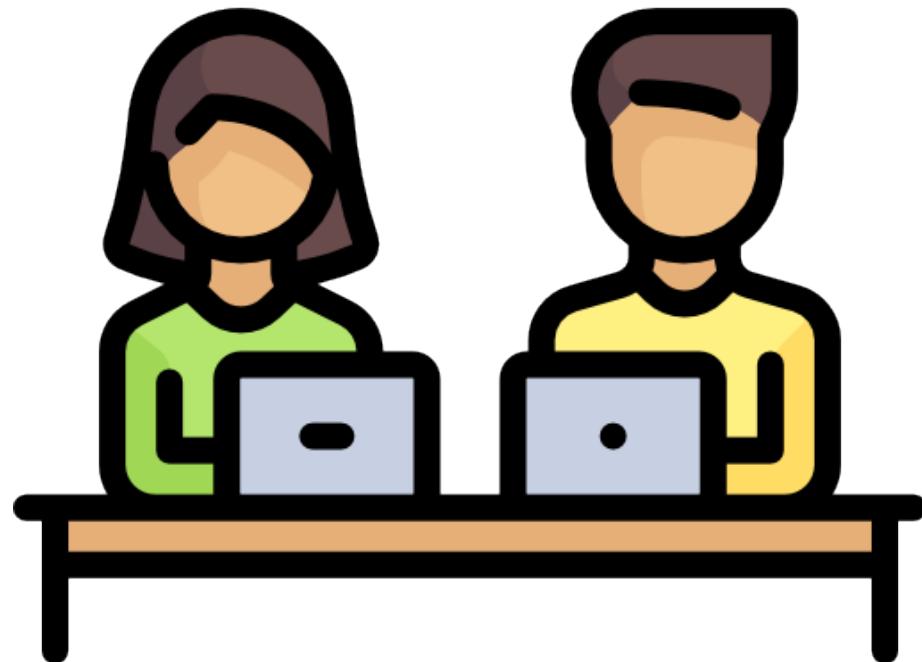
Time To Get Started!

1. Create a Kintone App from a CSV file
 - [Create from CSV](#) option
 - Import the CSV file
2. Add JavaScript libraries to the App
 - amCharts CDN links
3. Add a custom JavaScript file to the App
4. Redeploy the Kintone App
 - Click on [Update App](#)
5. Raise Hand on Zoom when you are done

Want the Slides? Hit the
Download ZIP button at
bit.ly/KDP_Timeline



Let's look through the code!



We will go over the most important parameters for creating the Timeline chart customization

For more details, refer to
[06_References.md](#)

amCharts Libraries

Upload JavaScript for PC



<https://cdn.amcharts.com/lib/4/core.js>

Loads the core amCharts library



<https://cdn.amcharts.com/lib/4/charts.js>

Provides the chart basics



<https://cdn.amcharts.com/lib/4/plugins/timeline.js>

Converts the chart to a serpentine shape



<https://cdn.amcharts.com/lib/4/plugins/bullets.js>

Creates the PinBullets with icons



[03_Script.js](#)

Inserts automatic transitions

Add Link

Add File

(Maximum: 20 MB)

Set Events and Retrieve HTML Elements

Kintone native event
that triggers when the
Record List page loads

Retrieve & configure the
space element below
the record list's header

Record number	Country	Continent	Country Code	Total Earned Prize Money (\$)	Number of Players
100	Albania	Europe	al	38621.6	22
99	Algeria	Africa	dz	73040.04	40
98	Argen...	South America	ar	3202331.29	579
97	Armenia	Asia	am	224960.72	26
96	Australia	Oceania	au	16706580.61	9199

```
(function () {
  'use strict';

  kintone.events.on('app.record.index.show', function (event) {

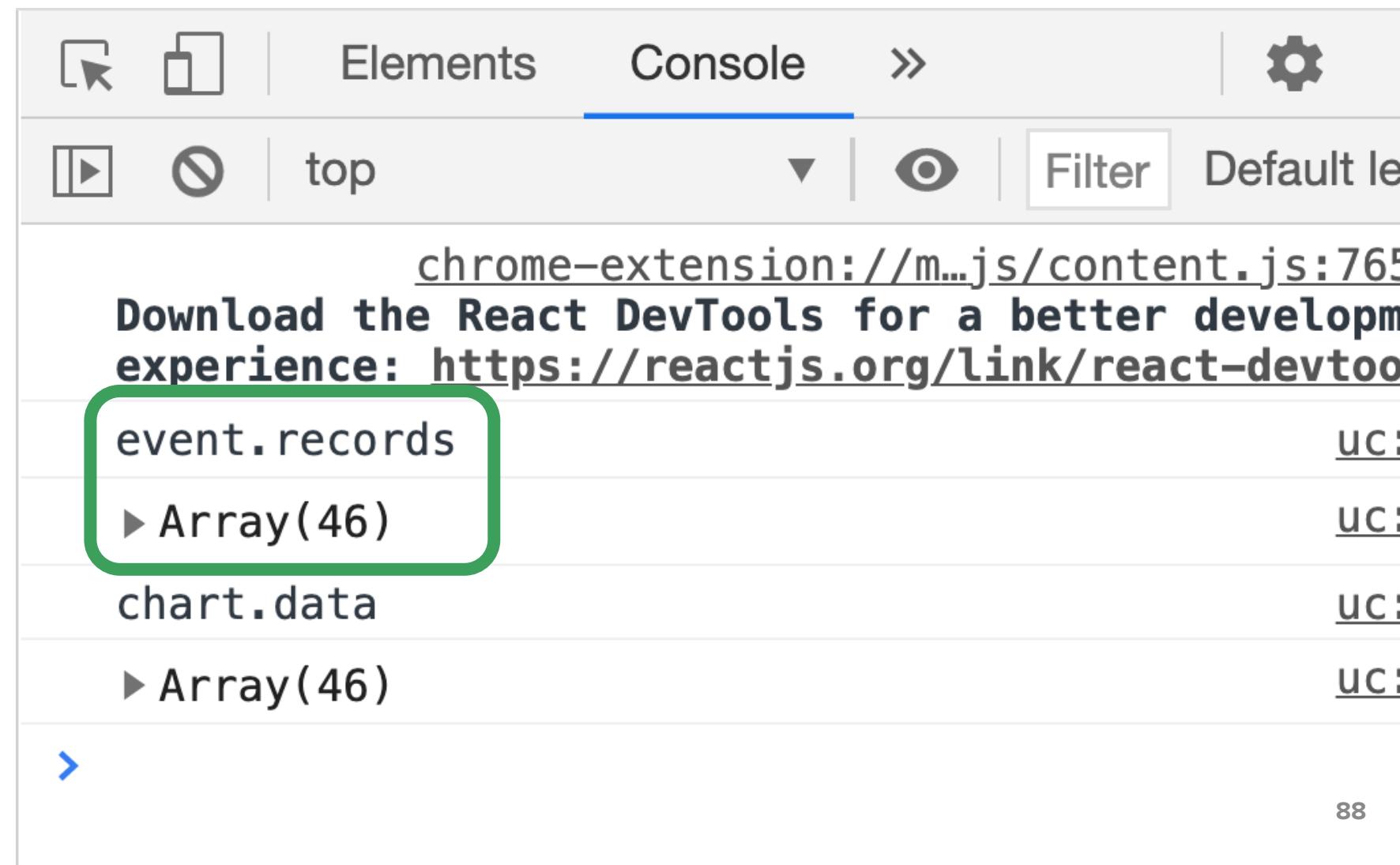
    var spaceDiv = kintone.app.getHeaderSpaceElement();
    spaceDiv.style.height = '650px';
    spaceDiv.style.marginLeft = '25px';
    spaceDiv.style.marginRight = '25px';
    spaceDiv.style.border = 'solid';
    spaceDiv.style.borderColor = '#ED7B84';
  });
})()
```

Peeking Inside event.records

Look inside
Kintone's Records
with the browser
console

Mac:
Command + Option + J

Windows:
Control + Shift + J



Inside event.records

```
[  
 {  
   "Record_number": { "type": "RECORD_NUMBER", "value": "46" },  
   "Updated_by": { "type": "MODIFIER", "value": { "code": "Administrator", "name": "Administ  
   "Created_by": { "type": "CREATOR", "value": { "code": "Administrator", "name": "Administrat  
   "Updated_datetime": { "type": "UPDATED_TIME", "value": "2021-02-11T17:14:00Z" },  
   "Created_datetime": { "type": "CREATED_TIME", "value": "2021-02-11T17:14:00Z" },  
   "Date": { "type": "DATE", "value": "2020-01-20" },  
   "Date_0": { "type": "DATE", "value": "2024-01-20" },  
   "Text": { "type": "SINGLE_LINE_TEXT", "value": "Joe" },  
   "Text_0": { "type": "SINGLE_LINE_TEXT", "value": "Biden" },  
   "Drop_down": { "type": "DROP_DOWN", "value": "Democratic" },  
   "Link": { "type": "LINK", "value": "https://en.wikipedia.org/wiki/Presidency_of_Joe_Biden  
   "$revision": { "type": "__REVISION__", "value": "1" },  
   "$id": { "type": "__ID__", "value": "46" }  
 },  
 ...  
 ]
```

Create the Chart Instance

am4themes_animated is a theme that automatically animates many amCharts action. It is a system-wide setting.

Create a Chart instance. The first parameter is the target HTML element to create the chart in. The second parameter references an amCharts chart type class.

```
am4core.useTheme(am4themes_animated);
```

```
const chart = am4core.create(spaceDiv,  
    am4plugins_timeline.SerpentineChart);
```

```
chart.levelCount = 5;
```

```
...
```

Number of straight lines
of serpentine shape

Chart Data

We want to get the data stored in Kintone Records and pass it as an Array of Objects to amCharts

Let's look inside chart.data first

```
chart.data = event.records.map((rec, index) => {
  return {
    'text': `${rec.Text.value}\n${rec.Text_0.value}`,
    'color': partyColor[rec.Drop_down.value],
    'start': rec.Date.value,
    'end': rec.Date_0.value,
    'icon': `.../${imgCode[rec.Record_number.value]}.png`,
  }
});
```

What Are We Passing to amCharts?

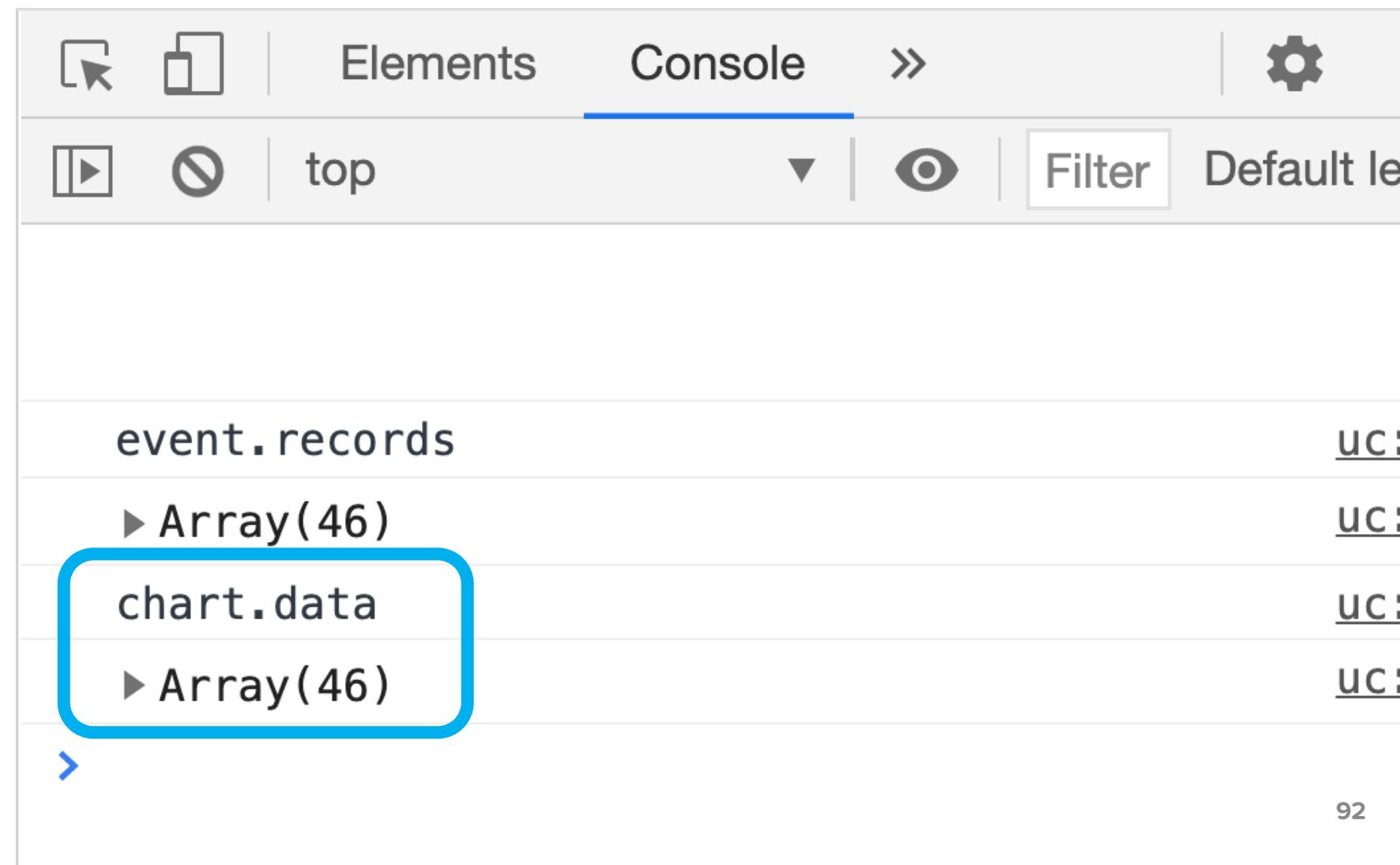
Look inside the Array of Objects that we are giving to amCharts with the browser console

Mac:

Command + Option + J

Windows:

Control + Shift + J



Inside chart.data

Array of objects

Contain the data of 46 US Presidents.

Each object contains values for text, color, start, end, icon, and category.

```
[  
  {  
    "text": "Joe\nBiden",  
    "color": "#2502fe",  
    "start": "2021-01-20",  
    "end": "2025-01-20",  
    "icon": "https://i.imgur.com/S5wCZcd.png",  
    "category": ""  
  },  
  { "text": "Donald\nTrump", ... },  
  { "text": "Barack\nObama", ... }  
  ...  
]
```

Chart Data

Getting data in Kintone records and placing them inside amCharts

President's name above their PinBullet

The president's term start & end dates

```
chart.data = event.records.map((rec, index) => {
  return {
    'text': `${rec.Text.value}\n${rec.Text_0.value}`,
    'color': partyColor[rec.Drop_down.value],
    'start': rec.Date.value,
    'end': rec.Date_0.value,
    'icon': `.../${imgCode[rec.Record_number.value]}.png`,
  }
});
```

Chart Data

Color is set to the president's political party

President's icon is set

```
chart.data = event.records.map((rec, index) => {
  return {
    'text': `${rec.Text.value}\n${rec.Text_0.value}`,
    'color': partyColor[rec.Drop_down.value],
    'start': rec.Date.value,
    'end': rec.Date_0.value,
    'icon': `.../${imgCode[rec.Record_number.value]}.png`,
  }
});
```

Color HEX code & Image Hash is stored on as partyColor object & imgCode array

Chart Data

```
chart.data = event.records.map((records, index) => {  
  return {  
    'text': `${records.Text.value}\n${records.Text_0.value}`,  
    'color': partyColor[records.Drop_down.value],  
    'start': records.Date.value,  
    'end': records.Date_0.value,  
    'icon': `.../${imgCode[rec.Record_number.value]}.png`,  
  }  
});
```

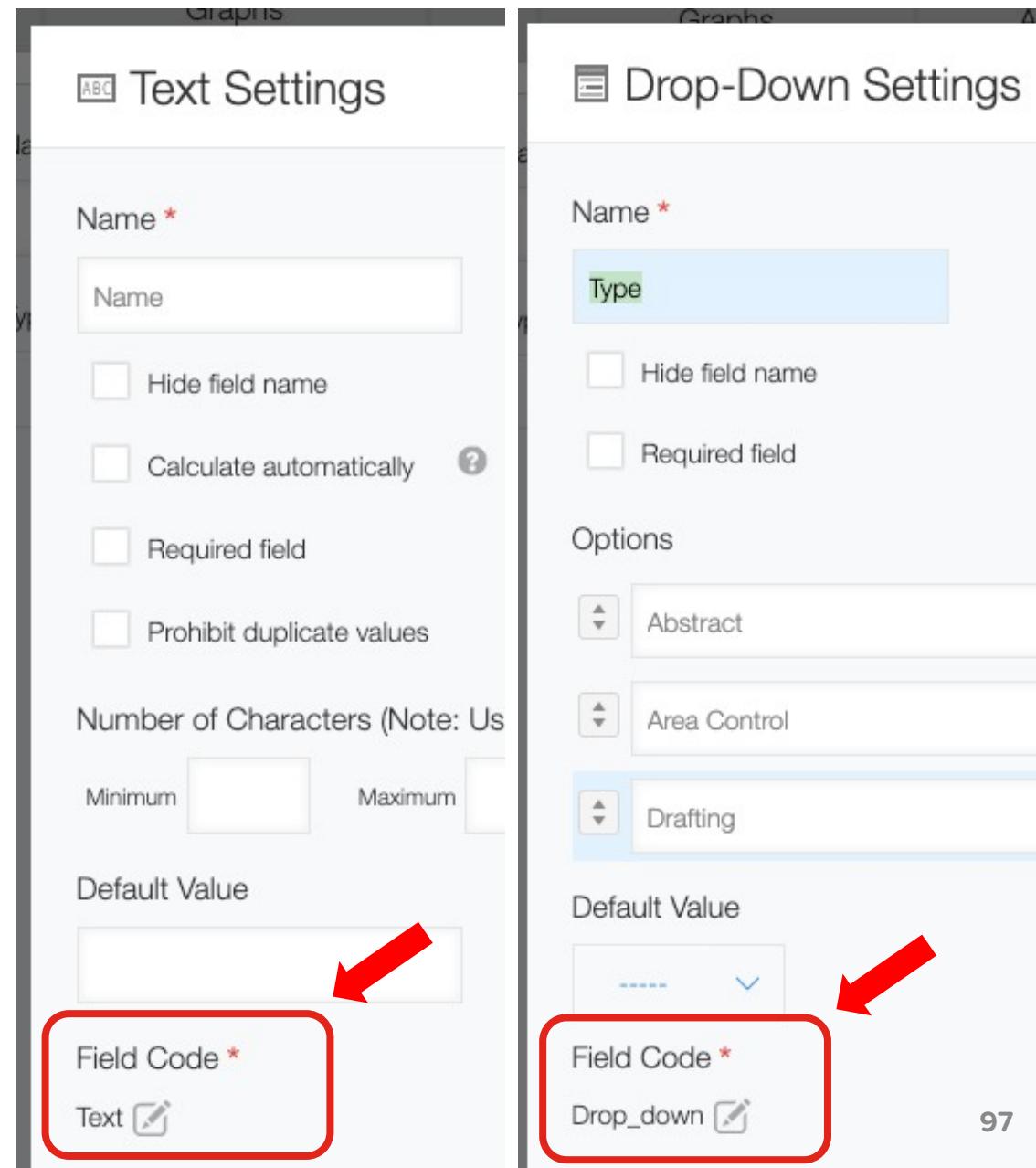
What are these?

Do You Remember?

The field code is the identifier for each field, represented as a string

- Name's field code = Text
- Type's field code = Drop_down

These are the default field code values for their respective fields



Field Codes inside event.records

```
[  
  {  
    "Record_number": { "type": "RECORD_NUMBER", "value": "46"},  
    "Updated_by": { "type": "MODIFIER", "value": "System"},  
    "Created_by": { "type": "CREATOR", "value": "System"},  
    "Updated_datetime": { "type": "UPDATED_TIME", "value": "2024-01-20T10:00:00Z"},  
    "Created_datetime": { "type": "CREATED_TIME", "value": "2020-01-20T10:00:00Z"},  
    "Date": { "type": "DATE", "value": "2020-01-20"},  
    "Date_0": { "type": "DATE", "value": "2024-01-20"},  
    "Text": { "type": "SINGLE_LINE_TEXT", "value": "Party"},  
    "Text_0": { "type": "SINGLE_LINE_TEXT", "value": "Party"},  
    "Drop_down": { "type": "DROP_DOWN", "value": "Party"},  
    "Link": { "type": "LINK", "value": "https://example.com/record/46"},  
    "$revision": { "type": "__REVISION__", "value": "1"},  
    "$id": { "type": "__ID__", "value": "46" }  
  },  
  ...  
]
```

Field Name	Default Field Code
Start_Date	Date
End_Date	Date_0
First_Name	Text
Last_Name	Text_0
Party	Drop_down
Wiki_URL	Link
Record Number	Record_number

Field Codes

Y-Axis | Category Axis

```
const categoryAxis = chart.yAxes.push(new am4charts.CategoryAxis());  
categoryAxis.dataFields.category = 'category';
```

At least 1 category is required.
Since we only have US Presidents in our timeline, we just set it to a " " category

Set multiple categories if you want an overlapping timeline.
Useful in understanding Jonathan's long life



X-Axis | Date Axis

```
const dateAxis = chart.xAxes.push(new am4charts.DateAxis());  
dateAxis.renderer.line.strokeDasharray = '1,4';  
dateAxis.renderer.line.strokeOpacity = 1;  
dateAxis.renderer.labels.template.verticalCenter = 'middle';
```

The "X-axis"
Creates the axis using
date & time scale



Data Series

Outlining the President terms

This is where the Chart Data is converted to the colored segments on the time axis



1790



1795

```
const series = chart.series.push(new  
am4plugins_timeline.CurveColumnSeries());  
  
series.dataFields.openDateX = 'start';  
series.dataFields.dateX = 'end';  
  
...  
  
series.columns.template.propertyFields.fill =  
'color';  
  
series.columns.template.propertyFields.stroke =  
'color';
```

Pin Bullets – President's Icon

Create pins with the president's photos and party color on the timeline



1790

```
const pinBullet = series.bullets.push(new  
am4plugins_bullets.PinBullet());  
  
pinBullet.locationX = 1;  
  
pinBullet.propertyFields.stroke = 'color';  
  
pinBullet.background.propertyFields.fill = 'color';  
  
pinBullet.image = new am4core.Image();  
  
pinBullet.image.propertyFields.href = 'icon';
```

Text Bullets – President's Name

Create the text labels with the president's names above their icons

George Washington



John Adams

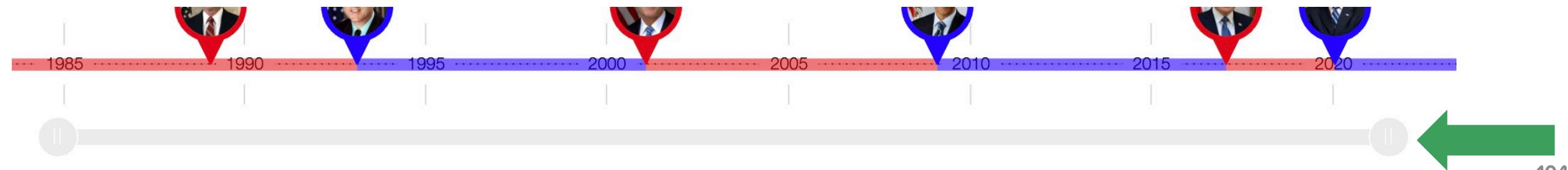


```
const labelBullet = series.bullets.push(new  
am4charts.LabelBullet());  
  
labelBullet.label.propertyFields.text = 'text';  
  
labelBullet.label.textAlignment = 'middle';  
  
labelBullet.locationX = 1;  
  
labelBullet.dy = -80;
```

Scrollbar

The scrollbar at the bottom of the chart allows for zooming in the timeline.

```
chart.scrollbarX = new am4core.Scrollbar();
chart.scrollbarX.align = 'center'
chart.scrollbarX.width = am4core.percent(75);
chart.scrollbarX.opacity = 0.5;
chart.scrollbarX.parent = chart.bottomAxesContainer;
```



Cursor / Tooltip

Display the exact year and month on the tooltip when the cursor hovers over the time axis

George Washington



1792-May

1790

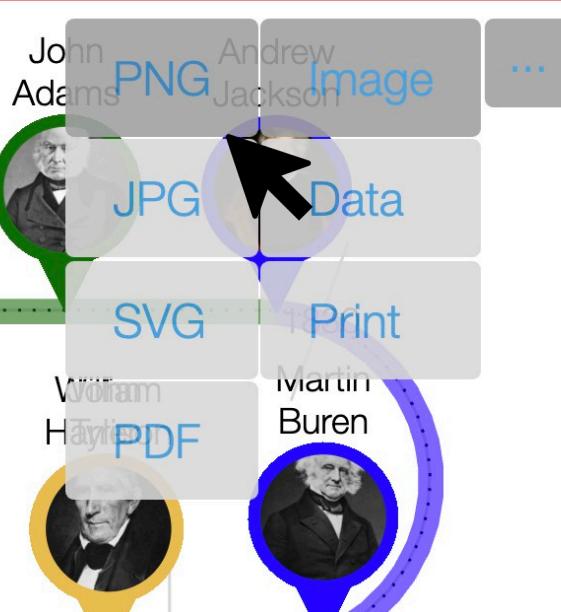


```
const cursor = new  
am4plugins_timeline.CurveCursor();  
  
chart.cursor = cursor;  
  
dateAxis.tooltipDateFormat = 'yyyy-MMM';  
  
cursor.xAxis = dateAxis;  
  
cursor.lineY.disabled = true;
```

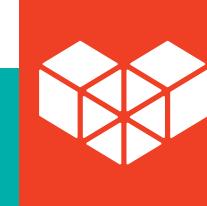
Optional – Export Chart

Enable the Chart Export option

To not include the tooltip or the scrollbar, we will disable them



```
chart.exporting.menu = new am4core.ExportMenu();
chart.scrollbarX.exportable = false;
dateAxis.tooltip.exportable = false;
```



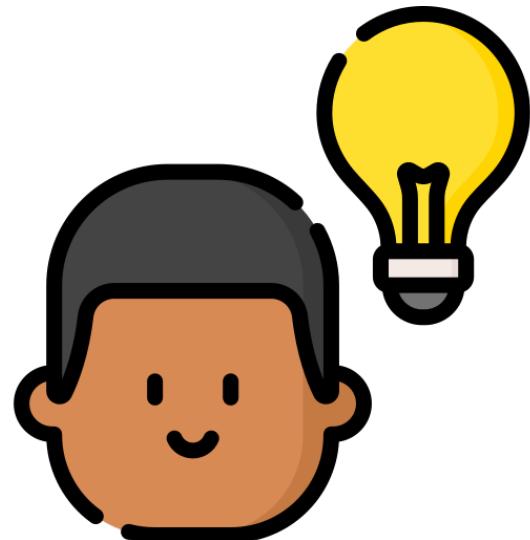
Any
Questions?

developer.kintone.io

Today's Agenda

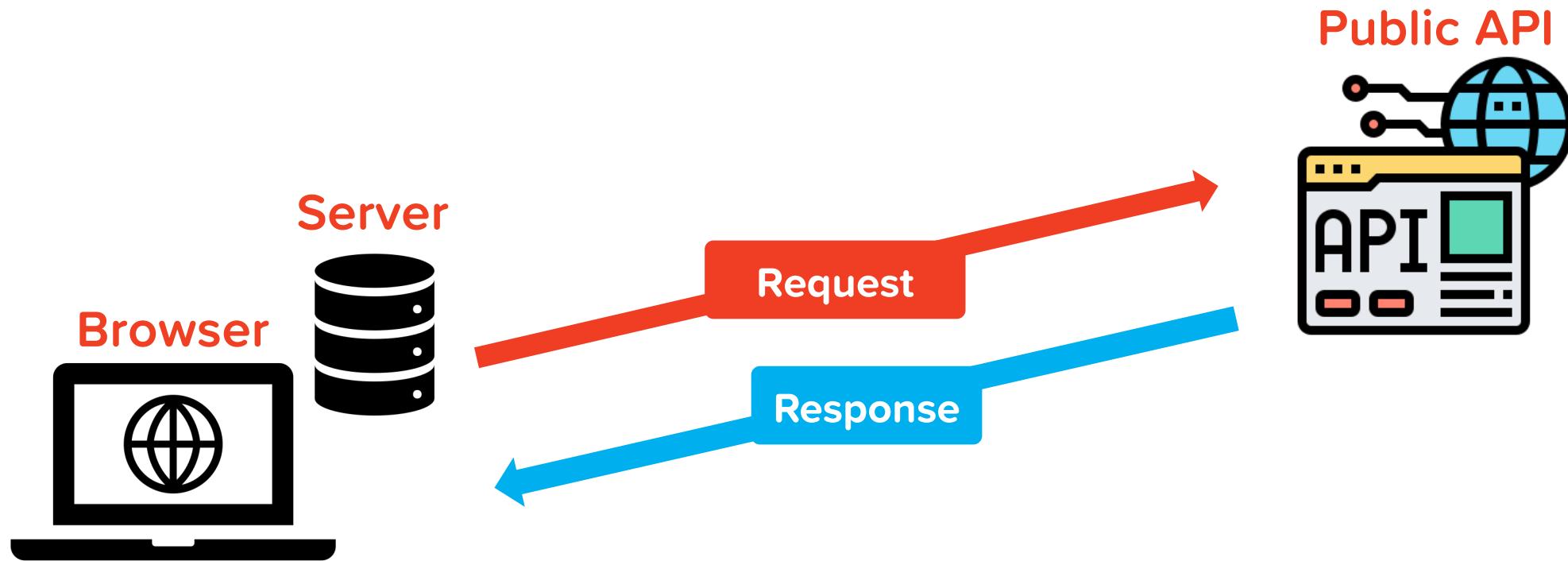
- 1 Get the Big Picture
- 2 Create a Kintone App
- 3 Display amCharts on Kintone
- 4 Call REST APIs from Kintone

Since We Are Talking About Data



Wouldn't it be great, if we could get data from public APIs?

REST API Calls From the Server



REST API calls are usually called through a server

REST API Calls From the Browser

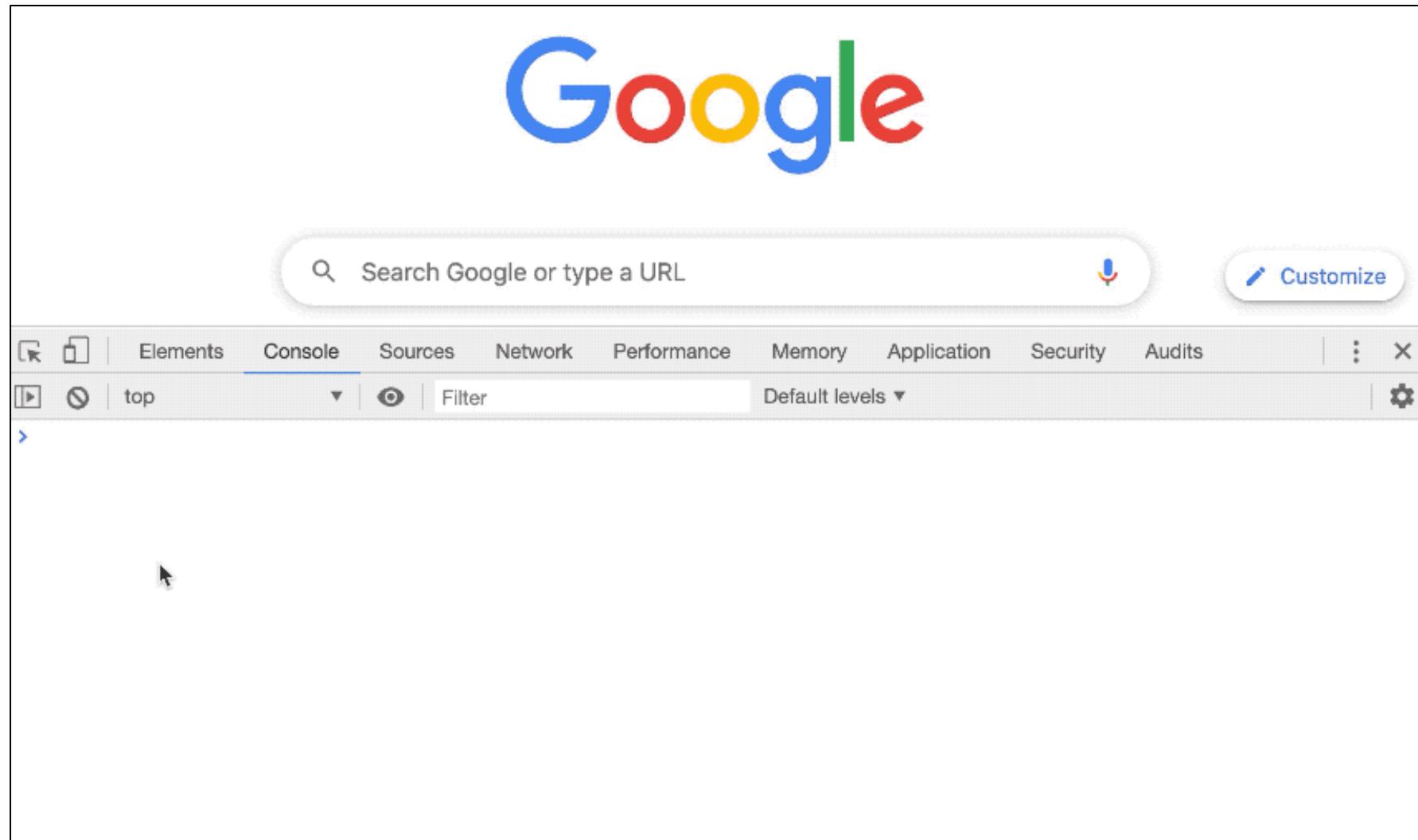


Calling REST APIs directly from the browser can often result in CORS errors

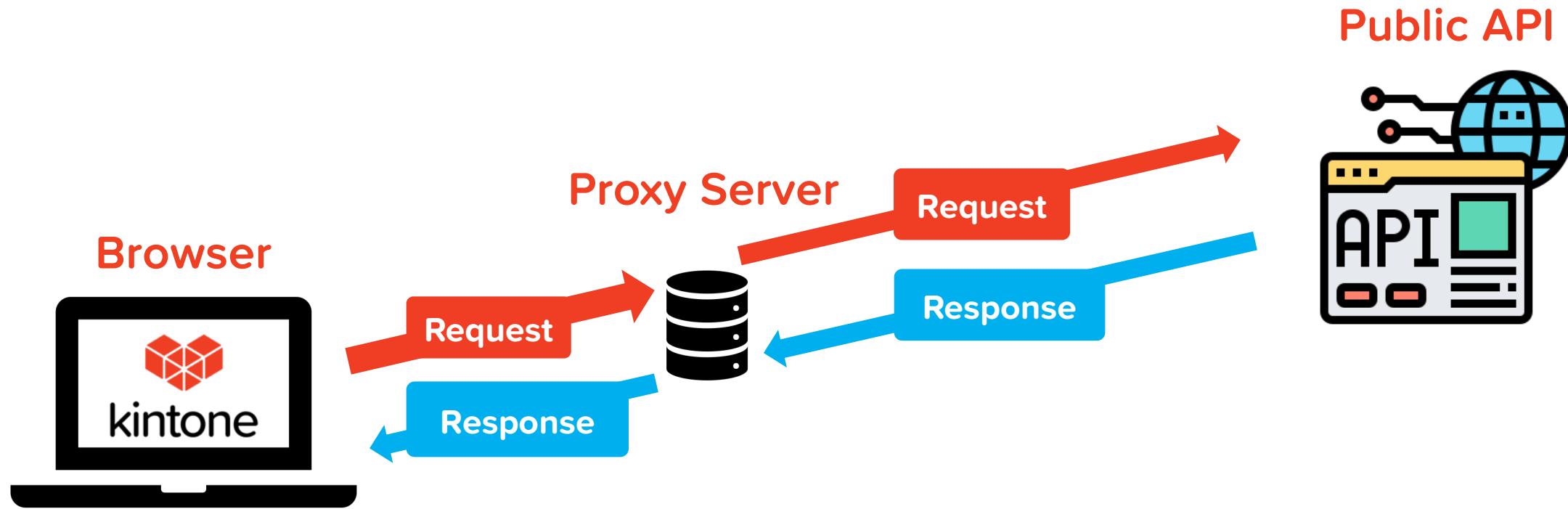
CORS Error Example



Yes, xkcd has an API for retrieving comic images.



REST API Calls from Kintone



The JavaScript codes on Kintone can call REST APIs by passing the call through a proxy server

The REST API Initiator

Kintone has a method called **kintone.proxy()** that calls REST APIs from the client-side JavaScript without running into any CORS errors.

the API endpoint

the HTTP method

```
kintone.proxy(url, method, headers, data, callback, errback)
```

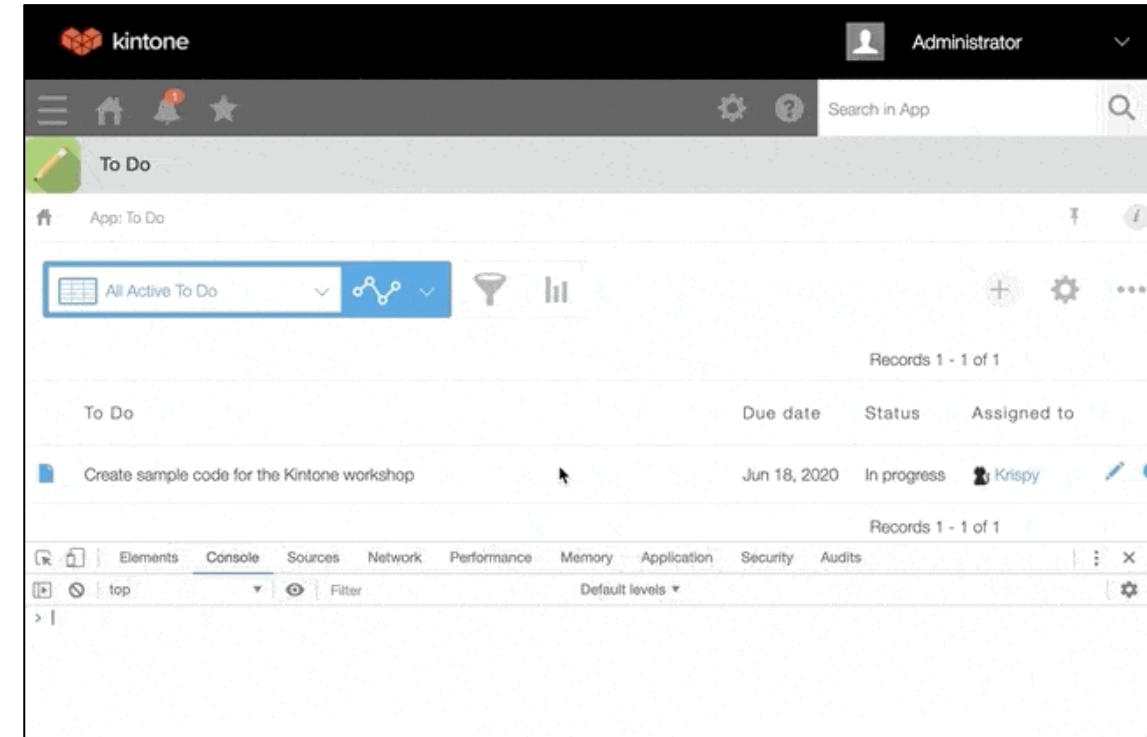
Callback functions – ignoring this
will return a Promise object

the request header

the request body

Example Call Result

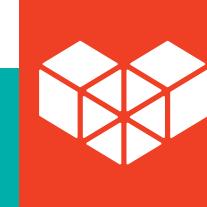
```
1 (function () {
2   'use strict';
3   var url = "https://xkcd.com/327/info.0.json";
4
5   kintone.events.on('app.record.index.show', function (event) {
6     kintone.proxy(url, 'GET', {}, {}, function (success) {
7       var jsonResponse = JSON.parse(success);
8       console.log(jsonResponse);
9       window.open(jsonResponse.img,"","width=800,height=200");
10    }, function(error) {
11      console.log(error);
12    });
13    return event;
14  });
15 })();
```



kintone.proxy(url, method, headers, data, callback, errback)

Benefits of the REST API Initiator

- Similar to how the fetch method works, **kintone.proxy returns a promise** object
- **kintone.proxy** can be used on all browsers that Kintone is compatible with, **including IE**
- **REST API calls can be made from the browser without being blocked by CORS errors**



Any
Questions?

developer.kintone.io

Wrap Up

1 Get the Big Picture

- Kintone is a **no-code/low code** cloud platform
- You can use your **free Kintone Developer License** for your projects

2 Create a Kintone App

- **Databases** can be created with **no coding**
- **Customize** any Kintone App with **JavaScript**

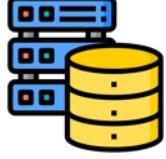
3 Display amCharts on Kintone

- Kintone Apps can **run JavaScript** files
- JavaScript files can **interact with data** stored in Kintone Apps

4 Call REST APIs from Kintone

- Front-end JavaScript can make **REST API calls**
- REST API calls from Kintone can **bypass CORS errors**

Benefits of Using Kintone for Your Projects

-  There is no need to set up or maintain a server
-  Databases can be created easily with GUI
-  Front-end JavaScript can utilize the Database data
-  REST APIs can be called from Front-end JavaScript and avoid CORS errors

Projects to Work On Next!

For Developers who want to try out more visualization projects on Kintone

Fancy Data-Viz

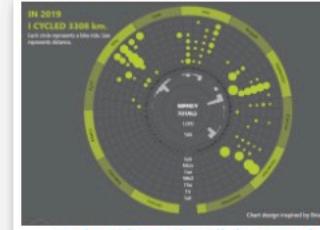
- Chart Types
- Column & Bar
- Line & Area
- Pie & Donut
- XY & Bubble
- Maps
- Candlestick & OHLC
- Stock
- TimeLine
- Pictorial
- Gauges
- Radar & Polar

Fancy Data-Viz



COVID-19 Spread Data
World Mar 20, 2020
Active cases: 100,000 Confirmed deaths: 10,000 Recovered 100,000 Deaths: 10,000

Coronavirus animated dashboard



IN 2019
I CYCLED 3100 km.
I SWIMMED 1000 meters
I HIKED 1000 km.
Chart design inspired by Brian Davies

Radar Chart visualizing yearly activities



COVID-19 U.S. Spread Data
United States (Total), Apr 03, 2020
Confirmed 700,000 Deaths: 40,000

COVID-19 U.S. Spread Data

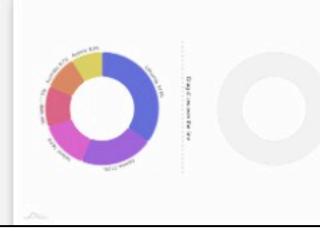


Chart showing data distribution

There are many more charts you can use on the amCharts website:

<https://www.amcharts.com/demos/>

Try linking to different libraries & reuse the code we used in the workshop!

Projects to Work On Next!

For Developers who want to create projects on Kintone,
and want to retrieve and store data from public APIs

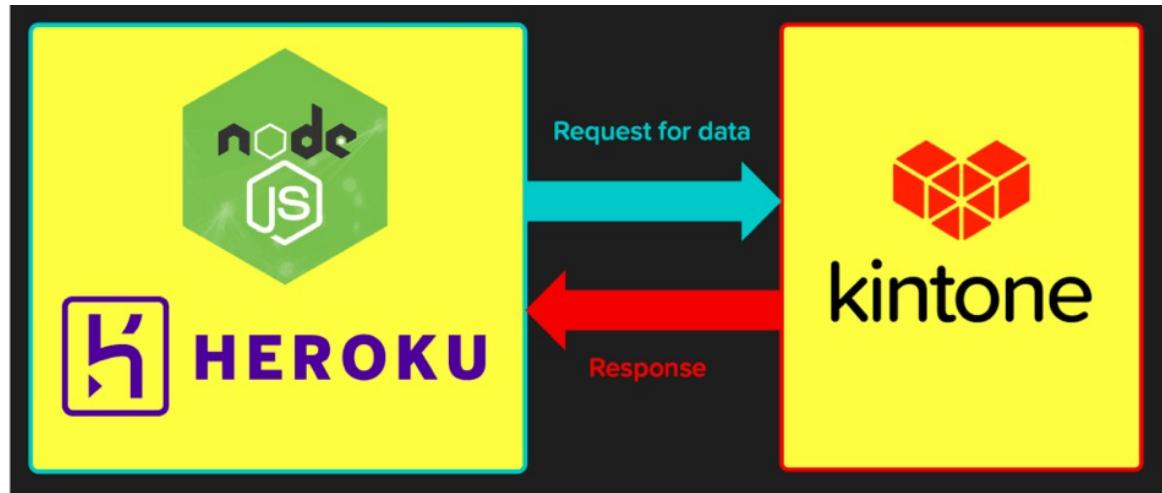
Health					
API	Description	Auth	HTTPS	CORS	
BetterDoctor	Detailed information about doctors in your area	apiKey	Yes	Unknown	
Covid-19	Covid 19 spread, infection and recovery	No	Yes	Yes	
Diabetes	Logging and retrieving diabetes information	No	No	Unknown	
Flutrack	Influenza-like symptoms with geotracking	No	No	Unknown	
Healthcare.gov	Educational content about the US Health Insurance Marketplace	No	Yes	Unknown	
Lexigram	NLP that extracts mentions of clinical concepts from text, gives access to clinical ontology	apiKey	Yes	Unknown	
Makeup	Makeup Information	No	No	Unknown	
Medicare	Access to the data from the CMS - medicare.gov	No	Yes	Unknown	
NPPES	National Plan & Provider Enumeration System, info on healthcare providers registered in US	No	Yes	Unknown	
Nutritionix	Worlds largest verified nutrition database	apiKey	Yes	Unknown	
openFDA	Public FDA data about drugs, devices and foods	No	Yes	Unknown	
USDA Nutrients	National Nutrient Database for Standard Reference	apiKey	Yes	Unknown	

You can find a list of APIs
to call from the link below:

<https://github.com/public-apis/public-apis#index>

Projects to Work On Next!

For Developers who want to use Kintone as a back-end database, and retrieve data via Kintone's REST API

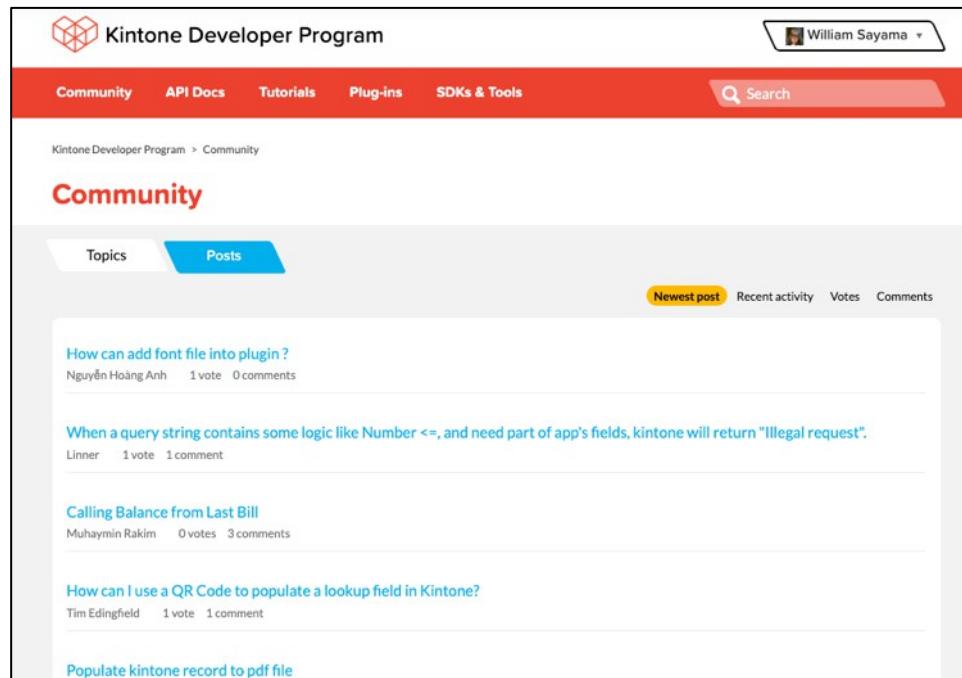


You can follow a tutorial where Node.js is used to call Kintone's REST APIs from the link below:

https://dev.to/will_yama/deploy-a-rest-api-calling-node-js-app-to-heroku-2mia

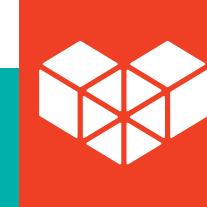
Where Can I Get Help?

If you're stuck, share your code on the Kintone Developer Community forum or on Stack Overflow!



The screenshot shows the Kintone Developer Program Community forum. The top navigation bar includes links for Community, API Docs, Tutorials, Plug-ins, and SDKs & Tools, along with a search bar and a user profile for William Sayama. The main content area is titled "Community" and shows a list of posts. The first post is titled "How can add font file into plugin?", made by Nguyễn Hoàng Anh, with 1 vote and 0 comments. The second post is titled "When a query string contains some logic like Number <=, and need part of app's fields, kintone will return "Illegal request".", made by Liner, with 1 vote and 1 comment. The third post is titled "Calling Balance from Last Bill", made by Muhammin Rakim, with 0 votes and 3 comments. The fourth post is titled "How can I use a QR Code to populate a lookup field in Kintone?", made by Tim Edingfield, with 1 vote and 1 comment. The fifth post is titled "Populate kintone record to pdf file.", which is currently visible at the bottom of the list.





Any
Questions?

developer.kintone.io

Thank You to Our Community Partners!



HackBuddy by JavaScriptLA



Flatiron School

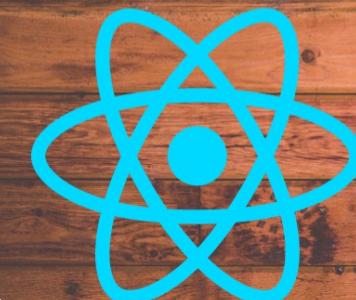
Join Our Future Workshops!

We are cooking up **new content** for our **upcoming workshops!**



Join our Meetup to not miss out!

Let's access Web Database Data from a **React Component**



March 18, 2021 (Thu)

6 - 8 pm PST

bit.ly/KDP_Events

Workshop Recording on YouTube

This workshop's recording will be posted on
our YouTube Channel!

Our past workshops are posted as well:

Charts: Bubble Cloud, Word Cloud

Introductions: REST API, JS Promise



bit.ly/KDP_Video

Thank You for Your Participation!

**Fill out our quick survey for a
chance to win a
\$25 Amazon gift card!**



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