



Recording will
be on YouTube

Welcome to the **React & Three.js Gallery Workshop!**

Download
Code & Slides

bit.ly/kintone3d

git clone the
GitHub Repo



Sign up for
the following

#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



Get Started

First, let's download the [sean-kintone/3D-Kintone-Gallery](https://github.com/sean-kintone/3D-Kintone-Gallery) Repo and go inside the folder.

Once you are inside the folder, let's install the dependencies!

```
cd Downloads  
git clone https://github.com/sean-kintone/3D-Kintone-Gallery  
  
cd 3D-Kintone-Gallery  
  
npm install  
  
npm install -g @kintone/customize-uploader
```

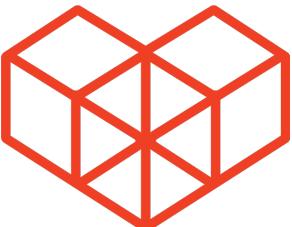
Run these commands
from your terminal



We will use this repo as
the starting point



#1 - Sign Up for Developer Account



bit.ly/KDP_signup

⚠ Do NOT use Safari ⚠

⚡ Accept Cookies First ⚡

✓ Chrome & Firefox works ✓

The screenshot shows a web browser window with the Kintone logo at the top. The main content is a sign-up form for the "Kintone Developer Program". The form includes 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. To the right of the form, there's a sidebar with a menu icon and some program-related text.

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

reCAPTCHA

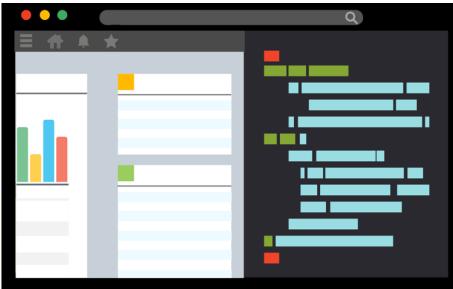
Privacy - Terms

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, coffee4life ✓

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



#2 - Create a Kintone Subdomain

The login name is your email

Remember your subdomain!
The link to your Kintone account
will be like this:
YOUR_SUBDOMAIN.kintone.com

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

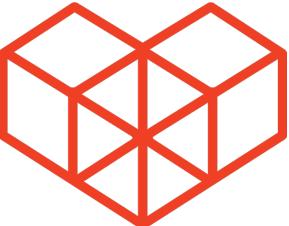
I agree with the [Kintone Developer License Terms of Service](#)*

protected by reCAPTCHA





Ever Get Stuck?



bit.ly/KDP_signup

⚠️ Do NOT use Safari ⚠️

⚡ Accept Cookies First ⚡

✓ Chrome & Firefox works ✓

☰ README.md

Debugging - Let's Fix Those Problems 💪

Here is a rundown of common problems & their solutions!

Errors related to .env

Are you getting one of the following error messages? If you get one of the following error messages, then please verify , and you have not modified the `.env.example`

- Failed to find `.env` file at default paths:
`[./.env,./.env.js,./.env.json]`
- [webpack-cli] Error: Missing environment variable:
`KINTONE_BASE_URL`
- [webpack-cli] Error: Missing environment variable:
`KINTONE_USERNAME`
- [webpack-cli] Error: Missing environment variable:
`KINTONE_PASSWORD`
- [webpack-cli] Error: Missing environment variable:
`VIEW_ID`

Then please do the following:

1. Verify your `.env` file has been correctly configured! [Details](#)



When You Need Help 💪

Resources:

- [README's Debugging section](#)
- Posting questions in the chat

Post questions in the chat anytime! Please include your code & error messages.

☰ README.md



Debugging - Let's Fix Those Problems 💪

Here is a rundown of common problems & their solutions!

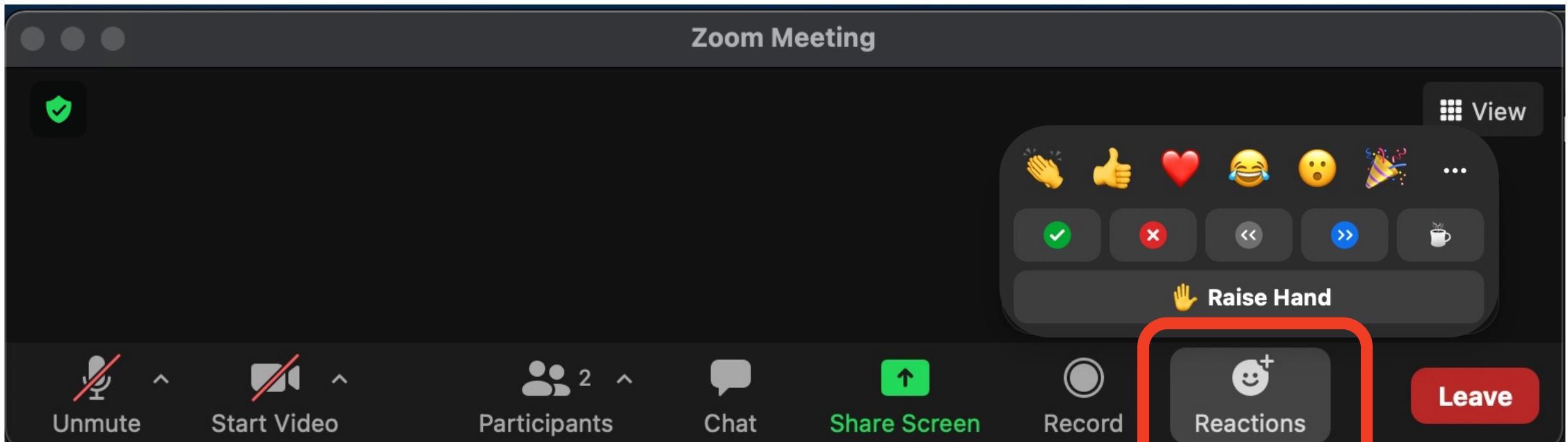
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`KINTONE_USERNAME`
- [webpack-cli] Error: Missing environment variable:
`KINTONE_PASSWORD`
- [webpack-cli] Error: Missing environment variable:
`VIEW_ID`



Let's Practice using Zoom's Reactions



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



Hello From Kintone

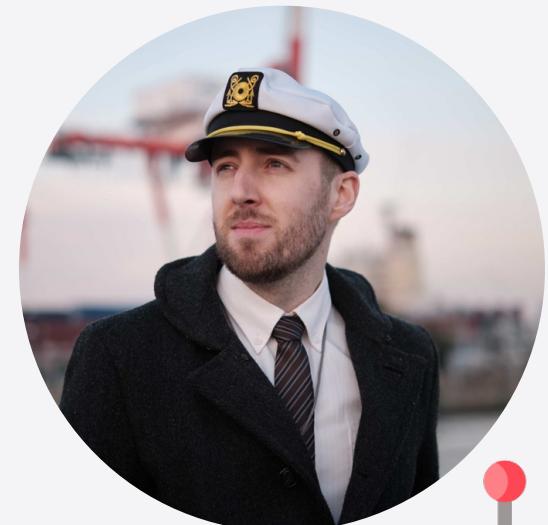
Nim



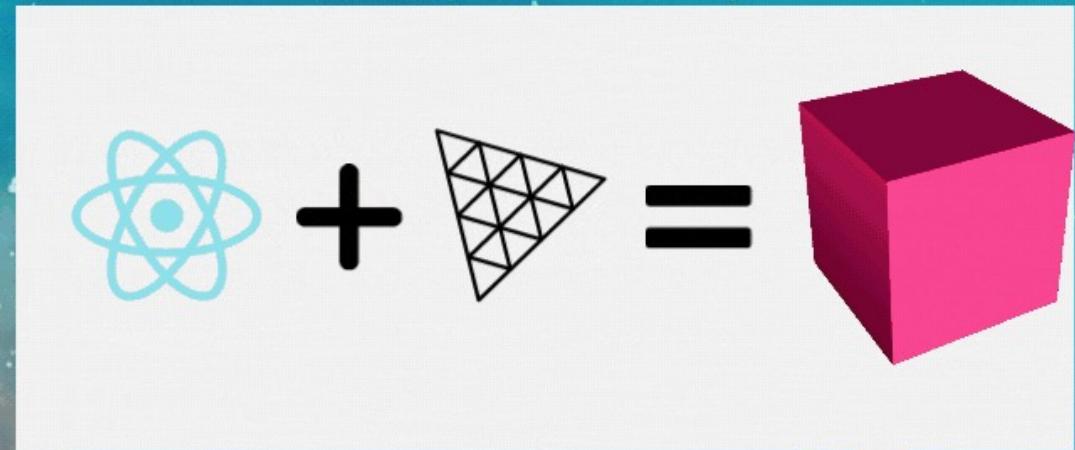
Genji



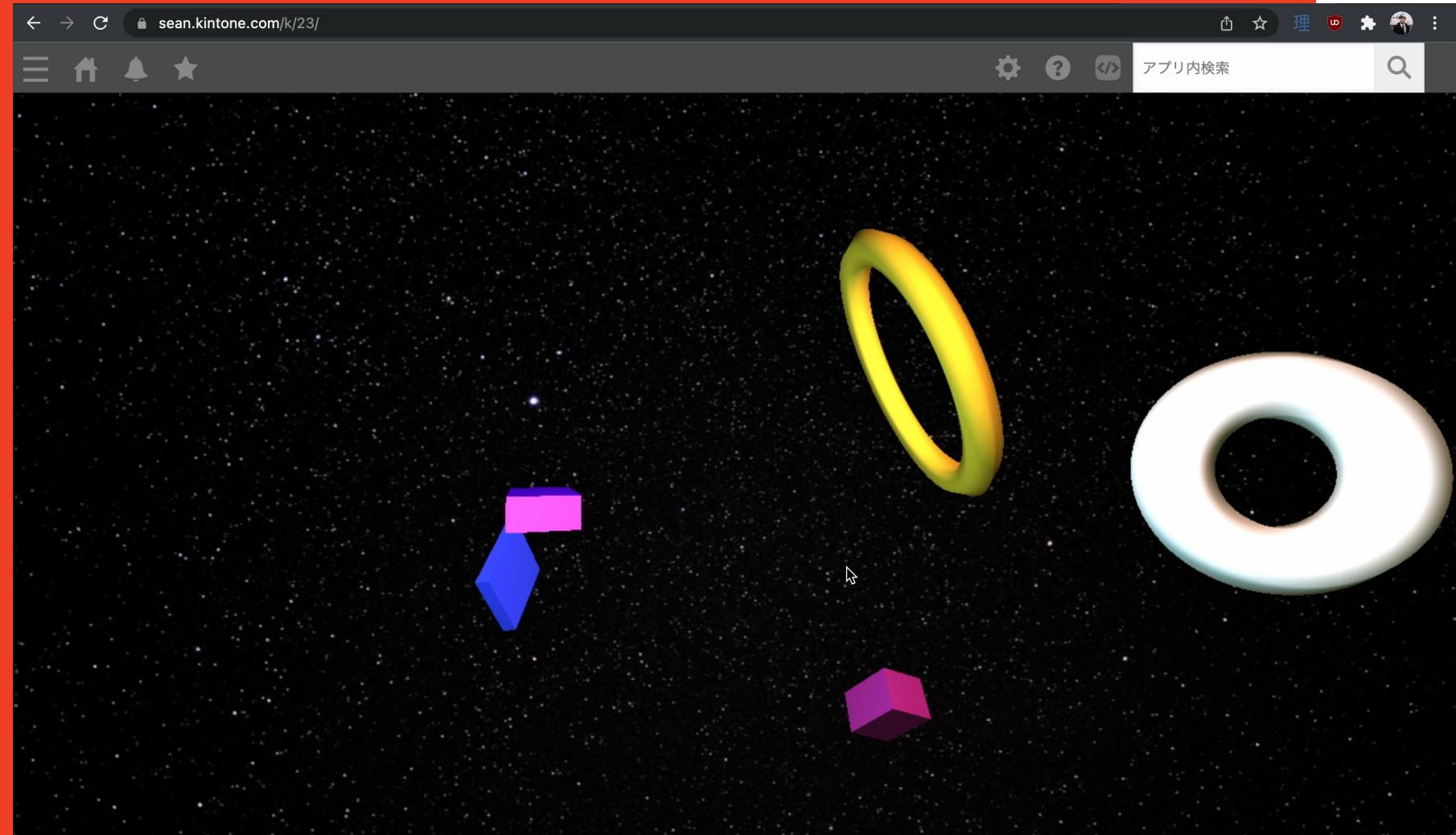
Sean



CREATE A 3D GALLERY WITH REACT, THREE.JS, & KINTONE DATABASE!



What We Will Make Today





Three.js Basics

Scenes

Scenes are the “universe” we build in. It is the 3D space where our objects are placed.

<https://threejs.org/docs/?q=scene#manual/en/introduction/Creating-a-scene>

Cameras / Lights

Our “eyes” in the 3D space. Without lights, our space will be completely black, and without cameras, we can not see the scene anyways!

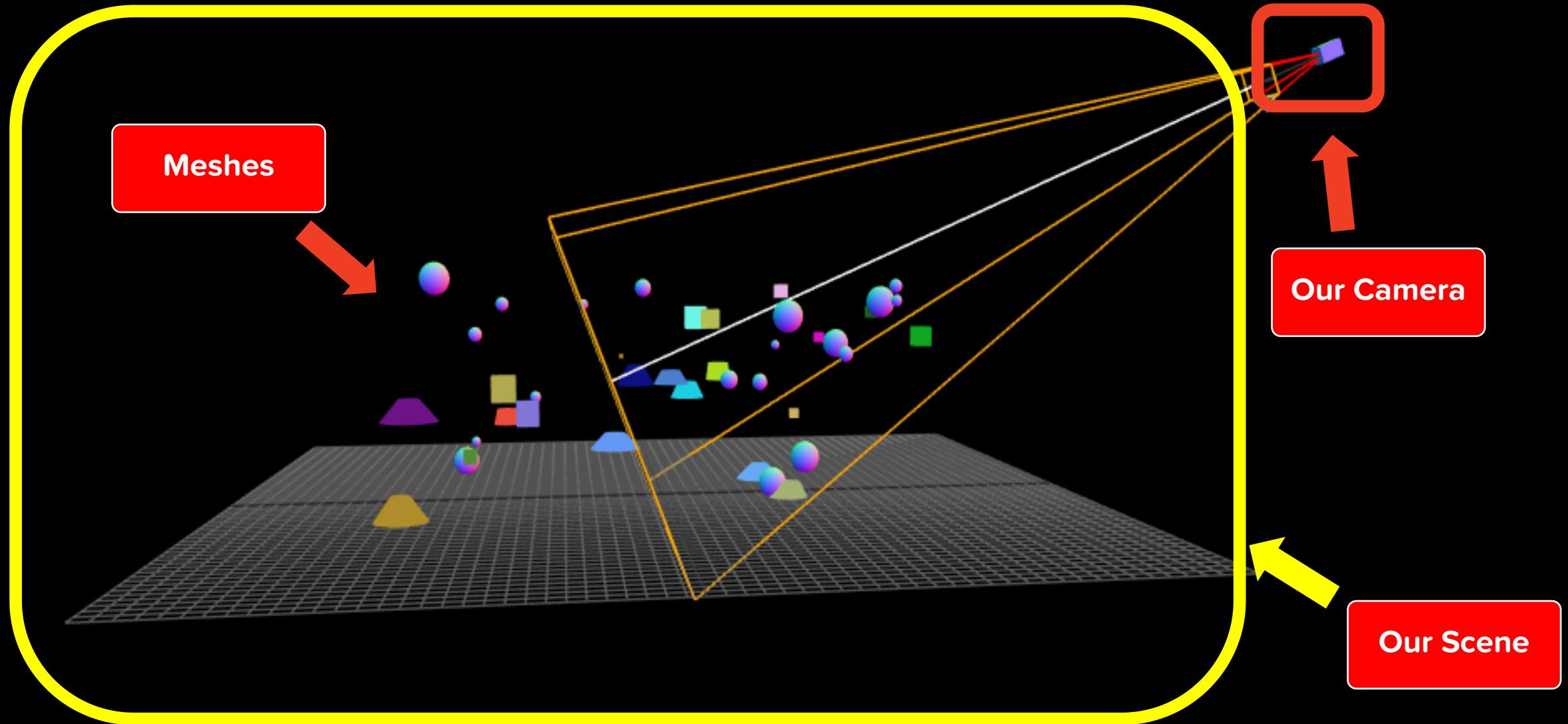
[https://threejs.org/docs/?q=camera - api/en/cameras/PerspectiveCamera](https://threejs.org/docs/?q=camera-api/en/cameras/PerspectiveCamera)

Meshes

Basic shapes in our 3D space. “Meshes” have two parts:

- 1) Geometry (length, width etc...) <= Invisible
- 2) Material the “skin” around the geometry <= visible

[https://threejs.org/docs/?q=mesh - api/en/objects/SkinnedMesh](https://threejs.org/docs/?q=mesh-api/en/objects/SkinnedMesh)



What can you do with THREE.JS?

Fully interactive

- <https://www.kodeclubs.com/>

3D Backgrounds

- <https://github.com/home>

More Parallax!

- <https://guillaumegouessan.com/>



Workshop Overview

Project Setup

Project Overview
Install Dependencies
Configure Settings & Variables
Run Scripts

Kintone Setup

Create a Web Database
Create a Custom View

3D Gallery Build

Build a Three.js Scene
Get shape information via API Call
Display 3D shapes
Animate and Randomize!

Download the Repo

Get Started

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cd Downloads  
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cd 3D-Kintone-Gallery  
npm install  
npm install -g @kintone/customize-uploader
```



Check Node.js & npm version

Check the versions

Check the versions in
Kintone_React_Search_Bar

```
$ node -v  
$ npm -v
```

Required for React:

Node ≥ 10.16 & npm ≥ 5.6

If missing, install

New to Node.js?

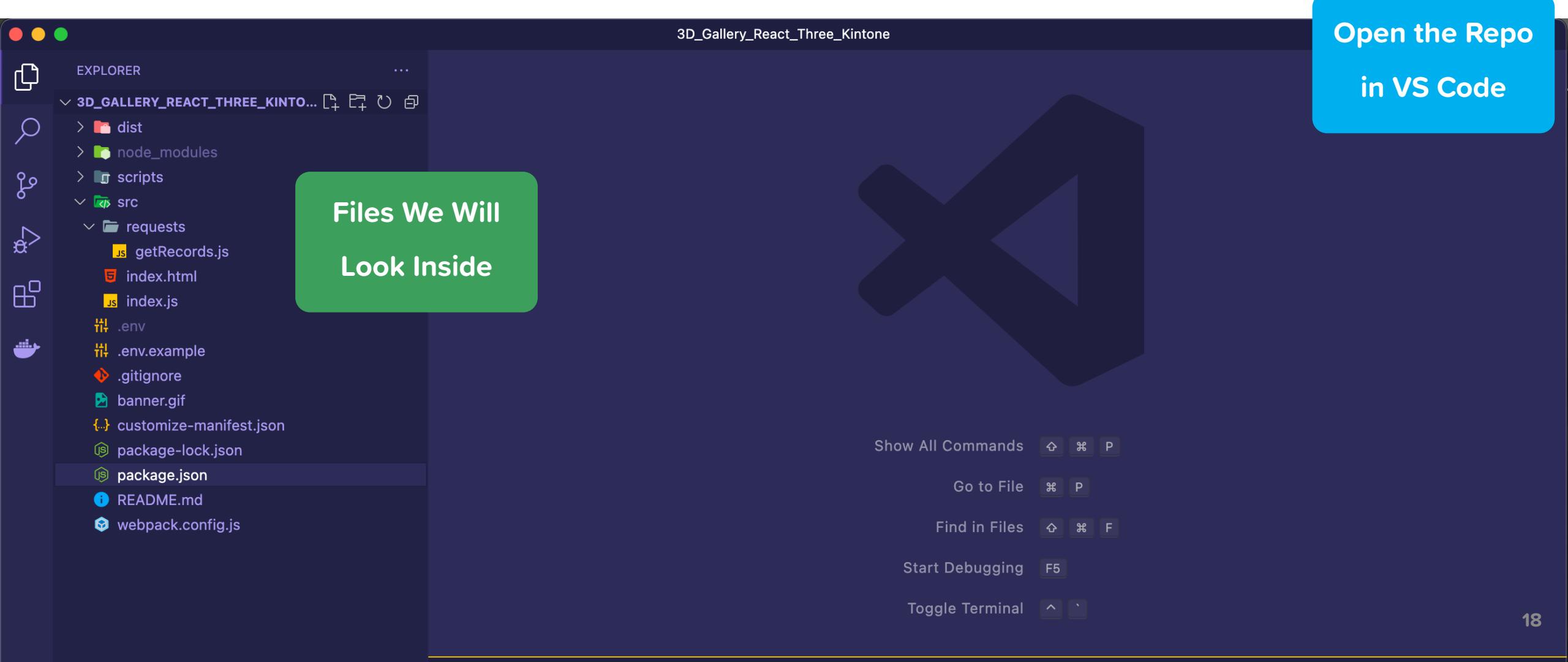
Check out [Guide on Installing Node.js & npm](#) section

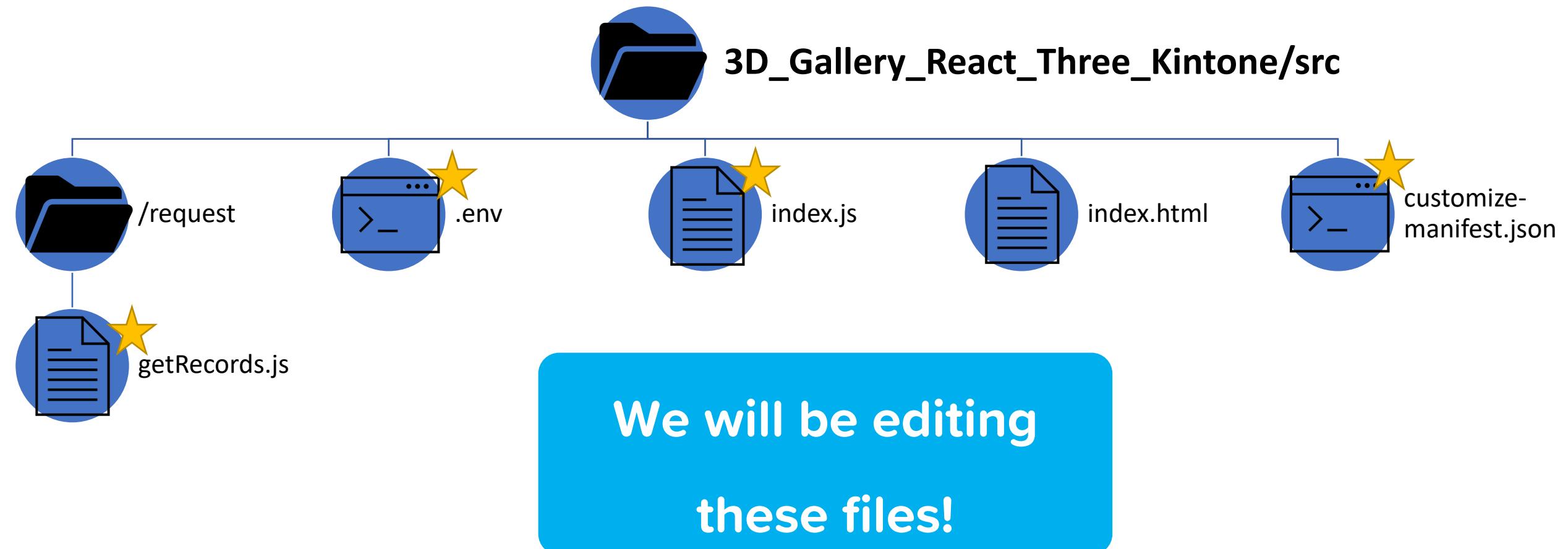
There is a companion video:



youtu.be/4Kw-i_rX3tY

Overview of the Repo



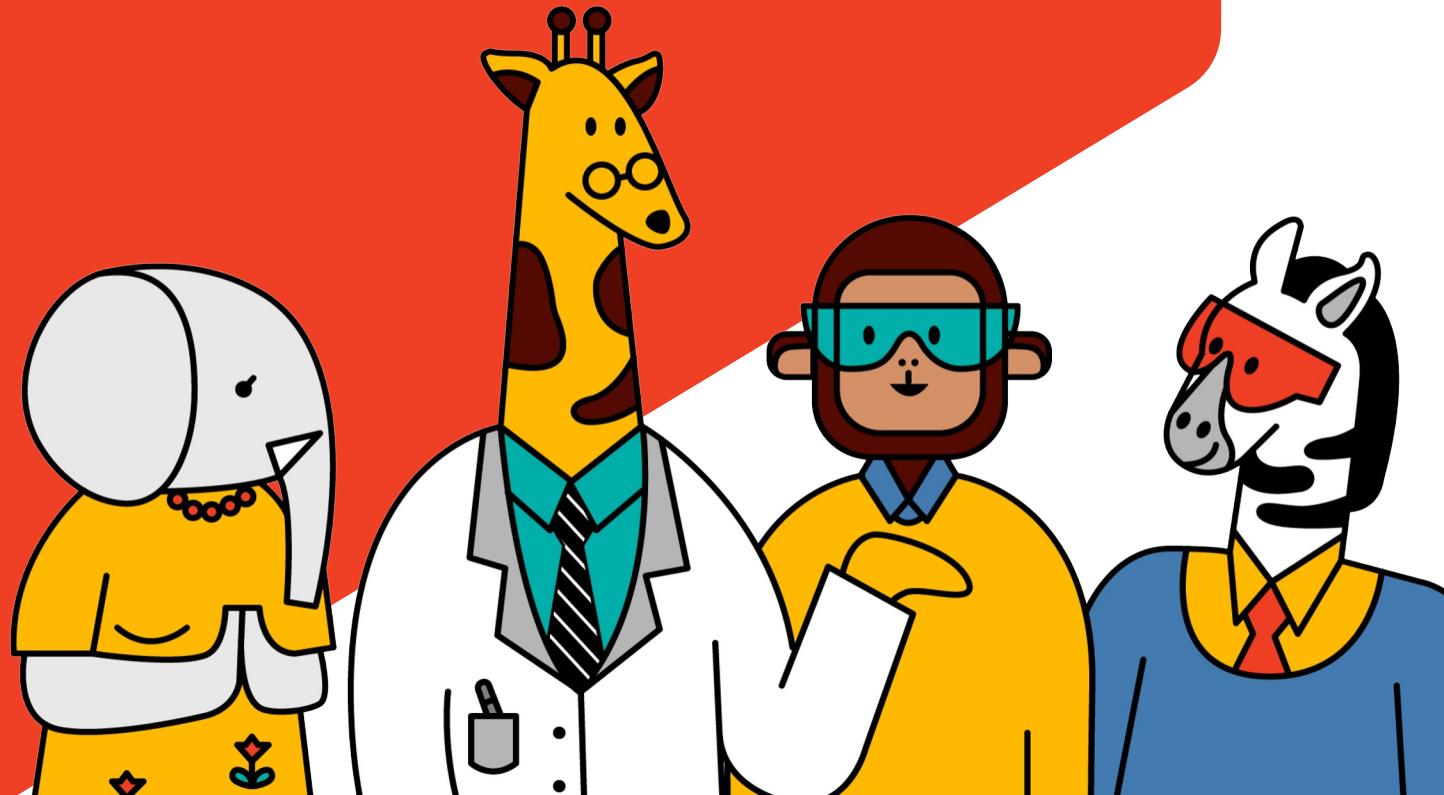


Quick check-in with Zoom polling



What is Kintone?

Built for teamwork,
designed by you



What is Kintone?



The screenshot displays the Kintone interface with several sections:

- Customer Database:** Shows three cards: Admin:Green, Admin:Green, and Admin:Green.
- Sales Leads:** Shows three cards: Admin:Green, Admin:Green, and Admin:Green.
- Contact Log:** Shows three cards: Admin:Green, Admin:Green, and Admin:Green.
- Threads:** A list of threads including "Deal Flow" (Apr 3 11:24 AM), "Sales Division" (Apr 1 11:49 PM), and "Monthly Reports" (Apr 1 11:45 PM).
- Apps:** A list of applications: Vendor Database, Item Database, [Of] Product List, [Of] Invoices, [Of] Seminar Survey, [Of] Attendee Lists, [Of] Event Calendar, [Of] Activity Log, [Of] Sales Leads, and [Of] Customer Database.
- People:** A list of members: Hiroko ..., Mary Si..., John S..., Rudy Red, Polly Pink, Bill Blue, Glen Gr..., Paul Gray, Mark Pe..., Dannie ...

Dashboard: Contains two charts:

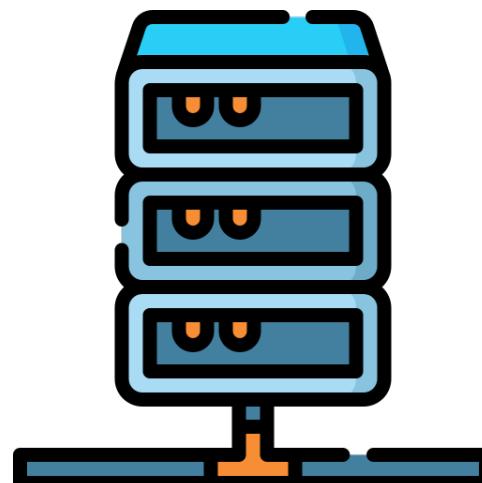
- A bar chart titled "[Of] Sales Leads: Monthly Expected Sales (per priority)" showing sales for Middle, High, and Low priorities across months from Apr 01, 2019, to Mar 01, 2020.
- A pie chart titled "Total(Amount)" showing the distribution of total amount by creator type: Int Creator (\$4202, 30.1%), T/C (\$1950, 14.0%), Viewer (\$1440, 10.3%), and Form Creator (\$630, 4.5%).

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

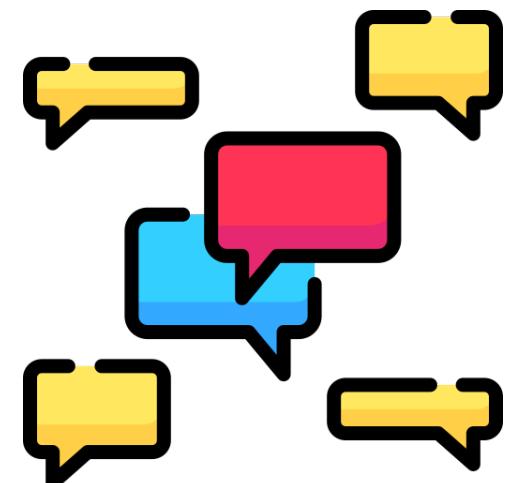
Where Kintone is Special!



kintone



Data & the conversations
about the data are
all in one place



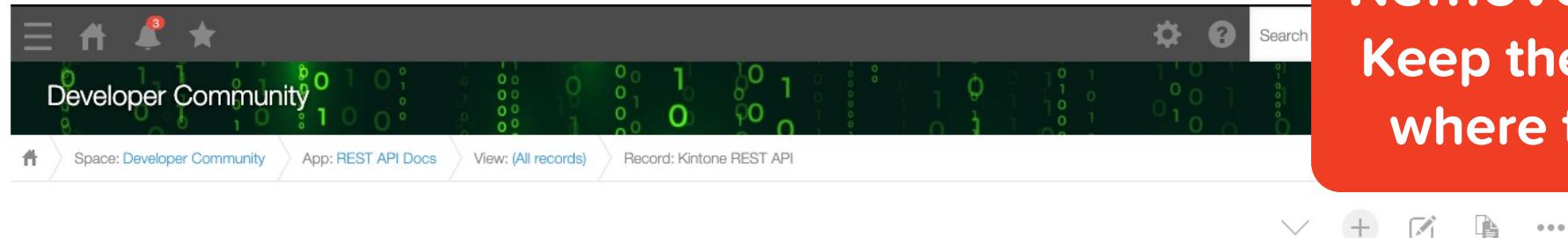
Missing - Unified Communication

Data Silos

Information is not being
shared effectively

Scattered Communication
Unclear where the
conversation is happening

What is Possible?



Where
Data
Lives

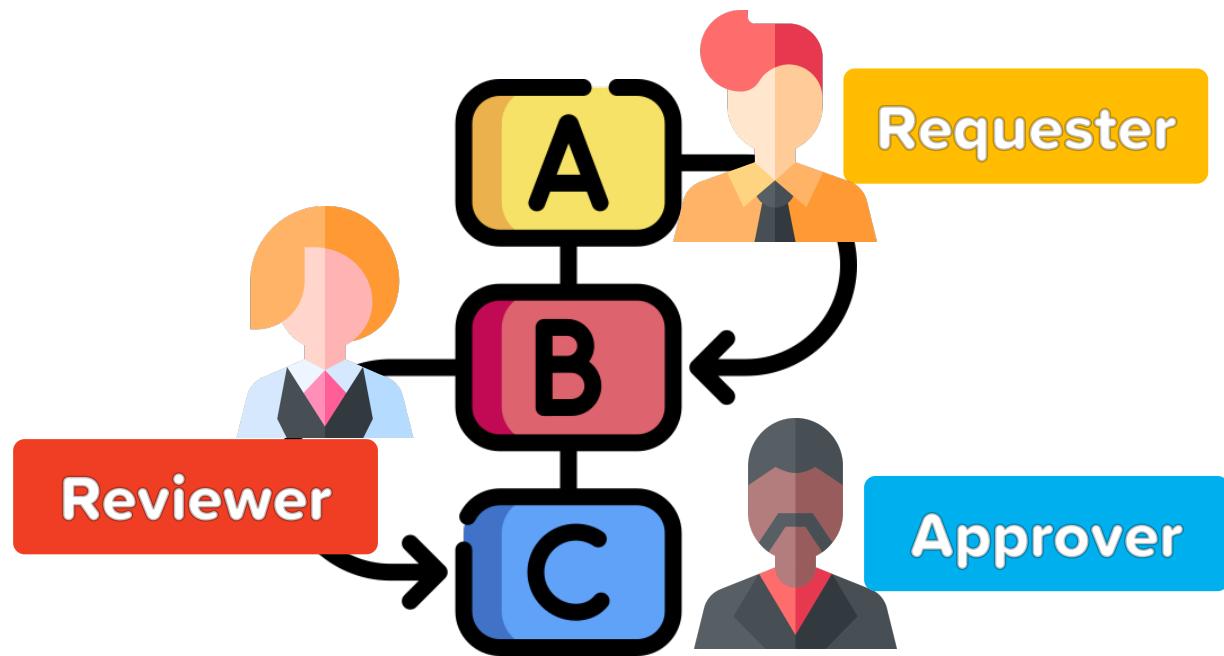
A screenshot of the Kintone REST API Docs interface, identical to the one above but with a blue border. It shows the 'Get API Schema' endpoint details and a 'Fix History' table. The table shows a fix made by 'Clare - Support' on Aug 27, 2020, which added a link to 'apis.{key}.link'. The 'Fix Details' column includes a note: 'Fixed the GET API List API link' and 'Added apis.{key}.link'.

A screenshot of a communication platform showing a support conversation. The left side has a header 'Write your comment here.' and a message from '3: Clare - Support' (@Sharon - Developer @Genji) saying 'Done!'. Below it is a message from '2: Sharon - Developer' (@Genji) saying 'Oh, shoot, thanks for catching my mistake!'. Another message from '@Clare - Support' asking to fix the API link. The final message is from '1: Genji' (@Clare - Support) asking to take a look at a document. A red border surrounds the entire message list.

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 Word Cloud!

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!

tickets-115435658161

2: John - Manager @Genji Assign this event to @Clare - Support

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

1 Like Reply

1 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, the title 'Shared To Do' is displayed, followed by a breadcrumb path 'App: Shared To Do'. A descriptive text block states: '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 features a table with the following columns: 'To Do', 'Priority', 'Due date', 'Status', 'Details', and 'Attachment'. The table contains five records, each with a small blue icon and a checkbox in the attachment column. The records are:

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

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

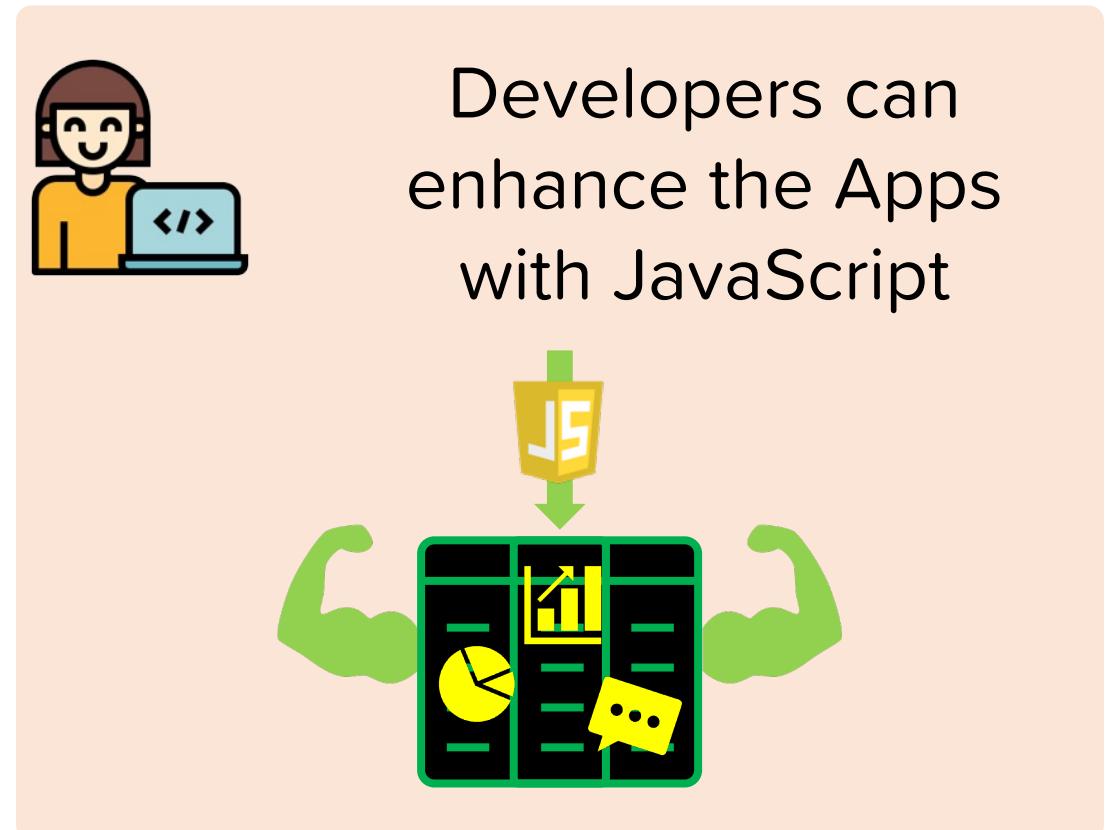
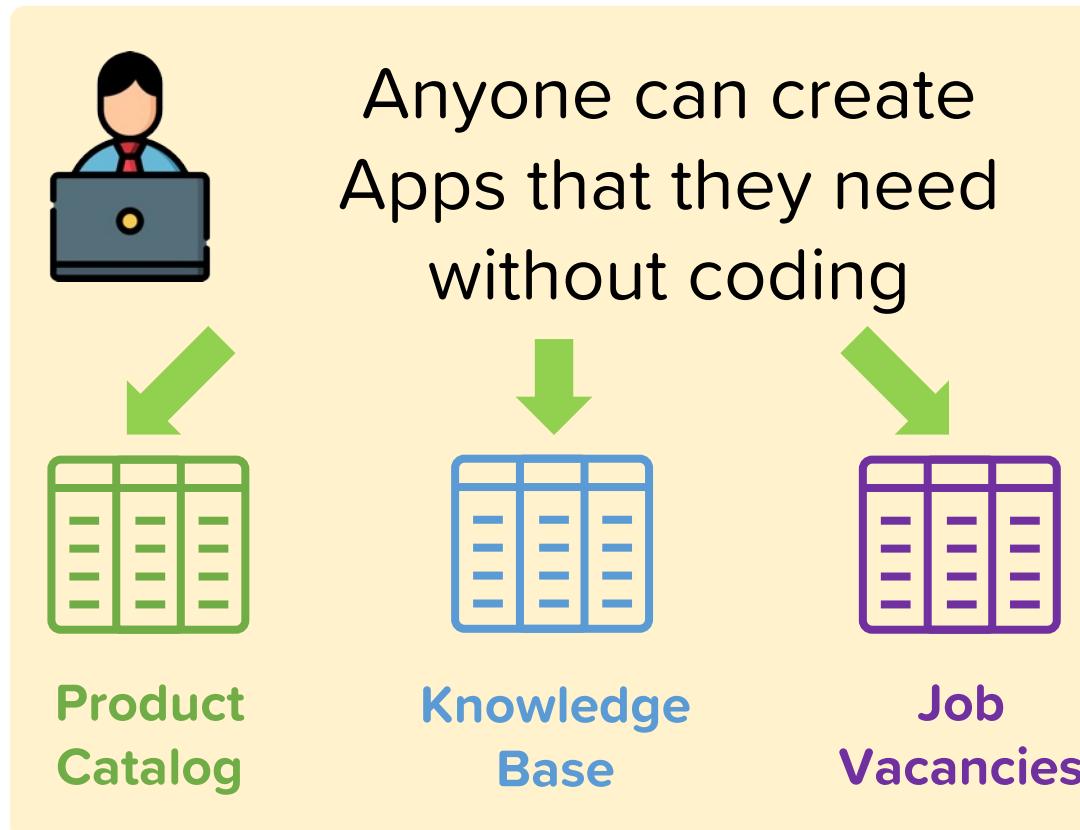
The screenshot shows the Kintone app builder interface for a 'Sales & Leads' application. The top navigation bar includes 'Sales & Leads > Settings' and a timestamp 'Last Updated: Mary Simpson 12:10 AM'. Below the title, there are tabs for 'Form', 'Views', 'Graphs', and 'App Settings', with 'App Settings' currently selected. A large green button labeled 'Save Form' is visible. The main workspace is titled 'Leads & Sales' and contains a 'Lead Title' field and a 'Sales Representative' field with a search icon and user icon. Under 'Contact Info', there are fields for 'Company Name' and 'Website', with 'Lookup' and 'Clear' buttons. Below that, there are fields for 'Contact Name' and 'Job Title'. At the bottom, there are fields for 'Email' and 'Telephone Number'. A product table at the bottom shows columns for 'Product Name', 'Product ID', 'Unit Price', and 'Quantity'. On the left side, a sidebar lists various 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. Each item has a preview icon and a settings gear icon.

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!

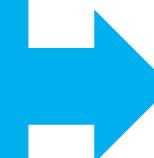
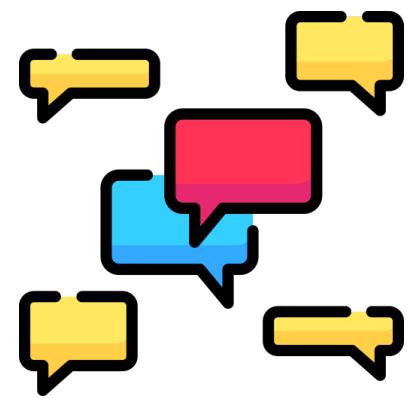
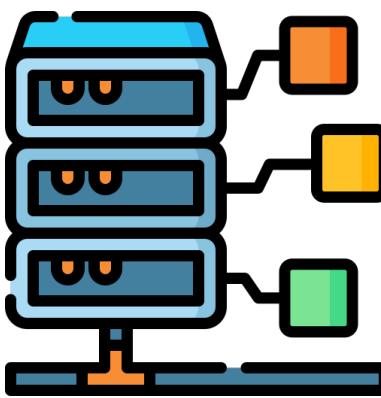
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



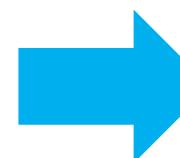
Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

Data + Communication



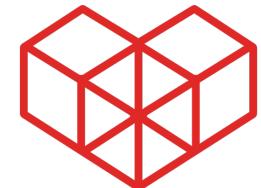
Insight



Action



How Developers Contribute

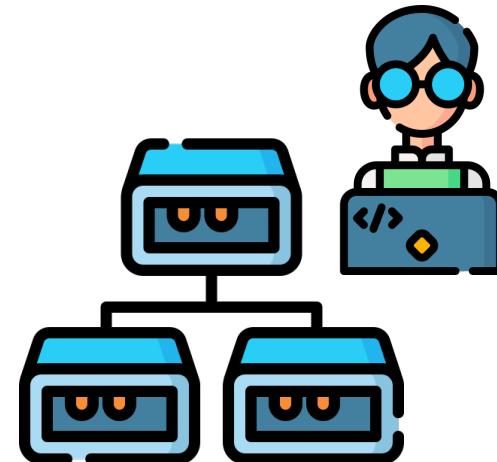


kintone
developer program

How Developers Contribute

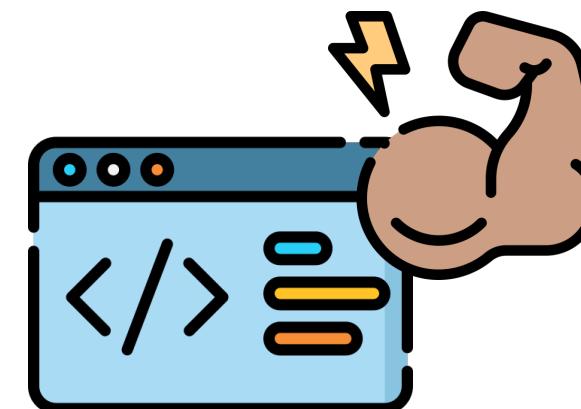
Command Center

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



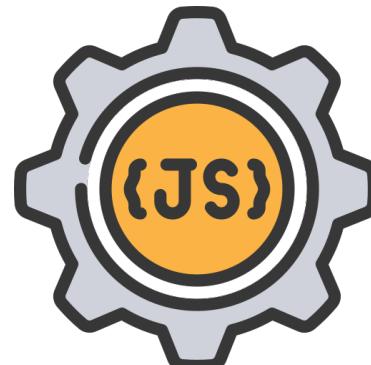
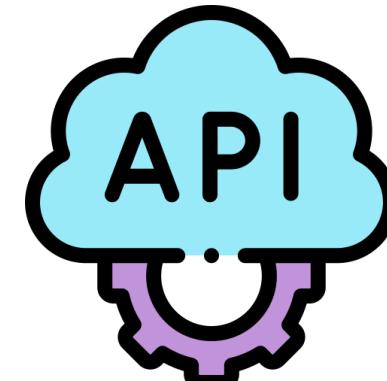
Enhancements

- Develop JavaScript customizations
- Build & share extensions



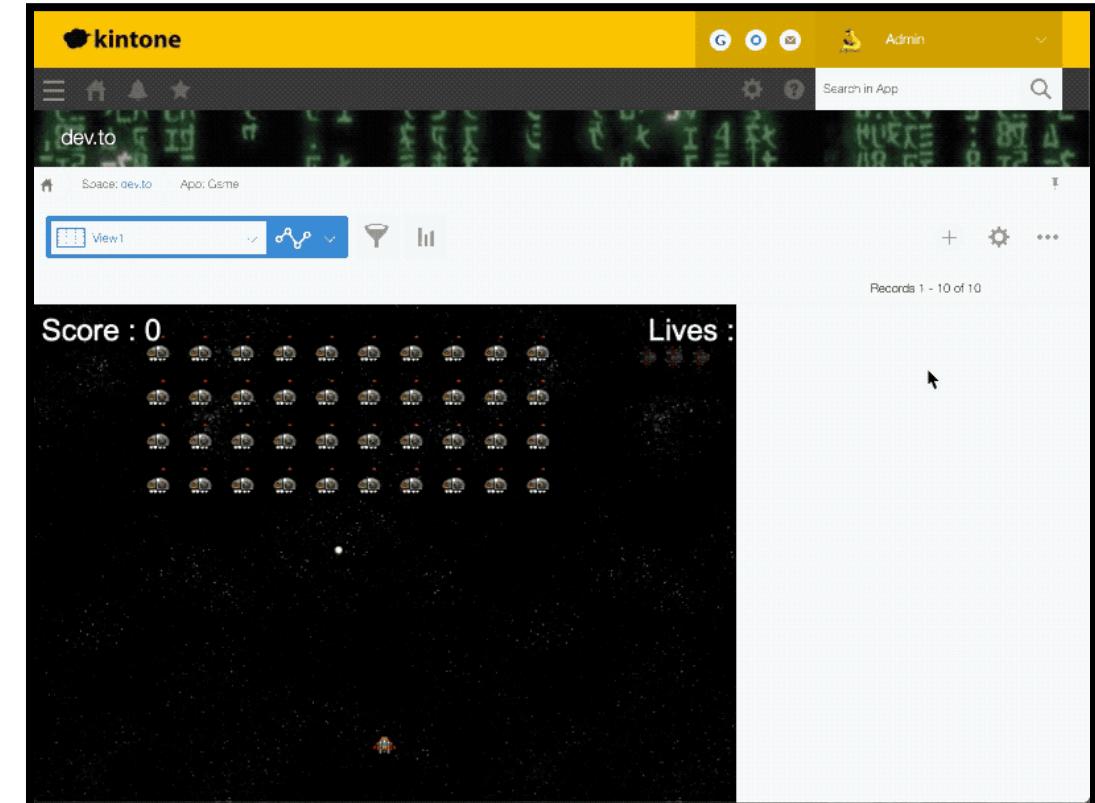
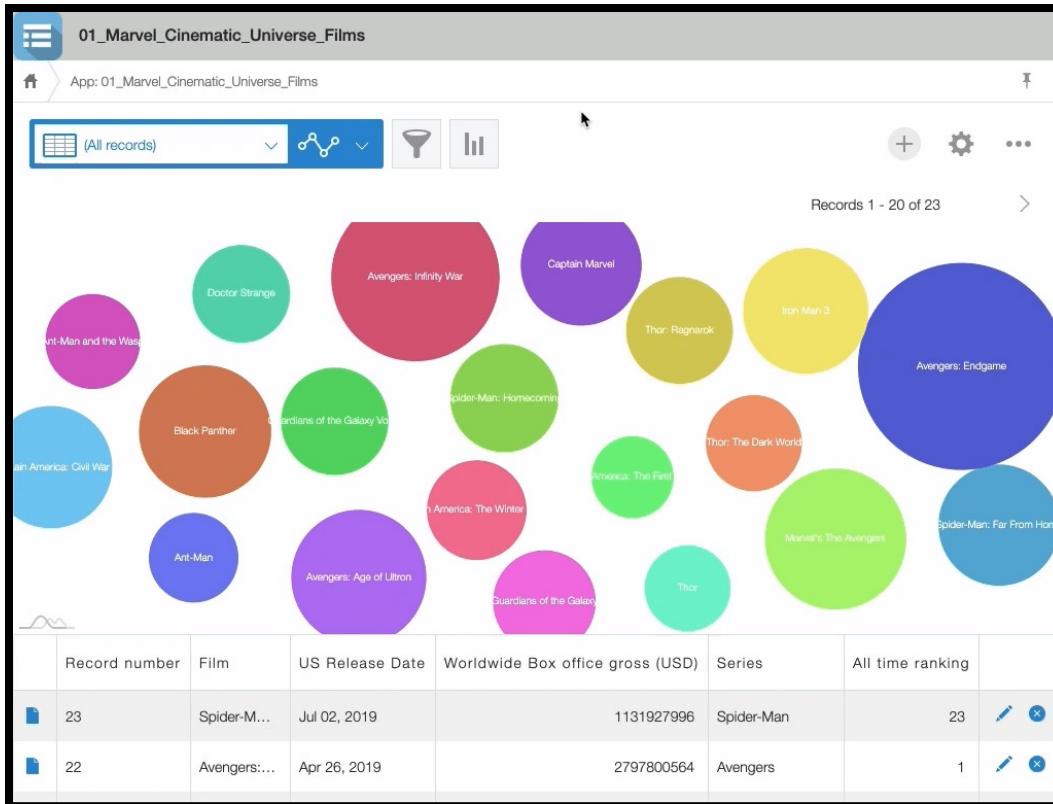
Tools Inside Kintone

- 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!

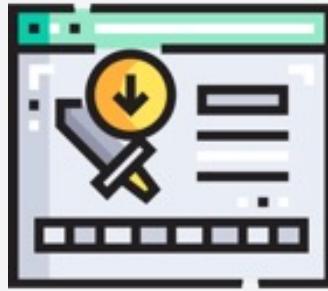


Contribute your
learnings to tech
blogs



Share your
projects with your
community!

Kintone For Creating Revenue



Create & sell
Kintone
extensions



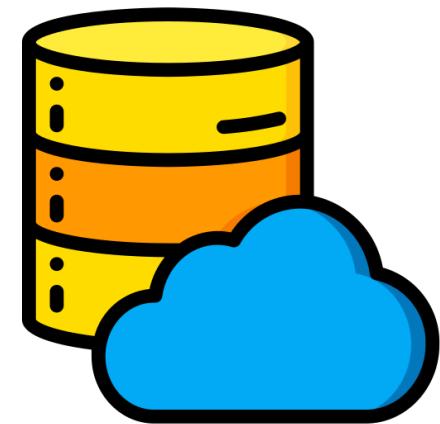
Consult with firms
on achieving
business goals



Develop Kintone
customizations for
customers

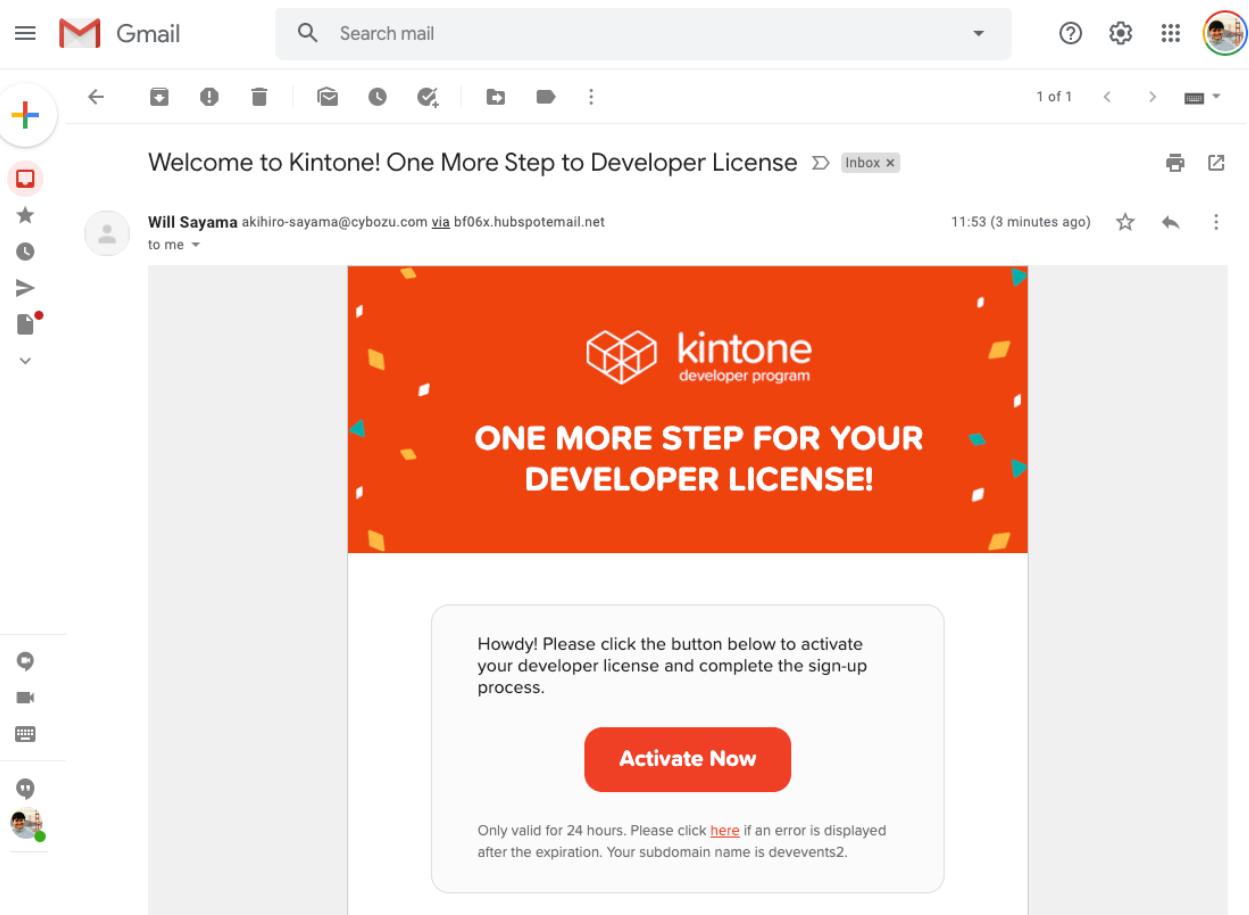
Let's Create a Kintone Database App

Step-By-Step Guide

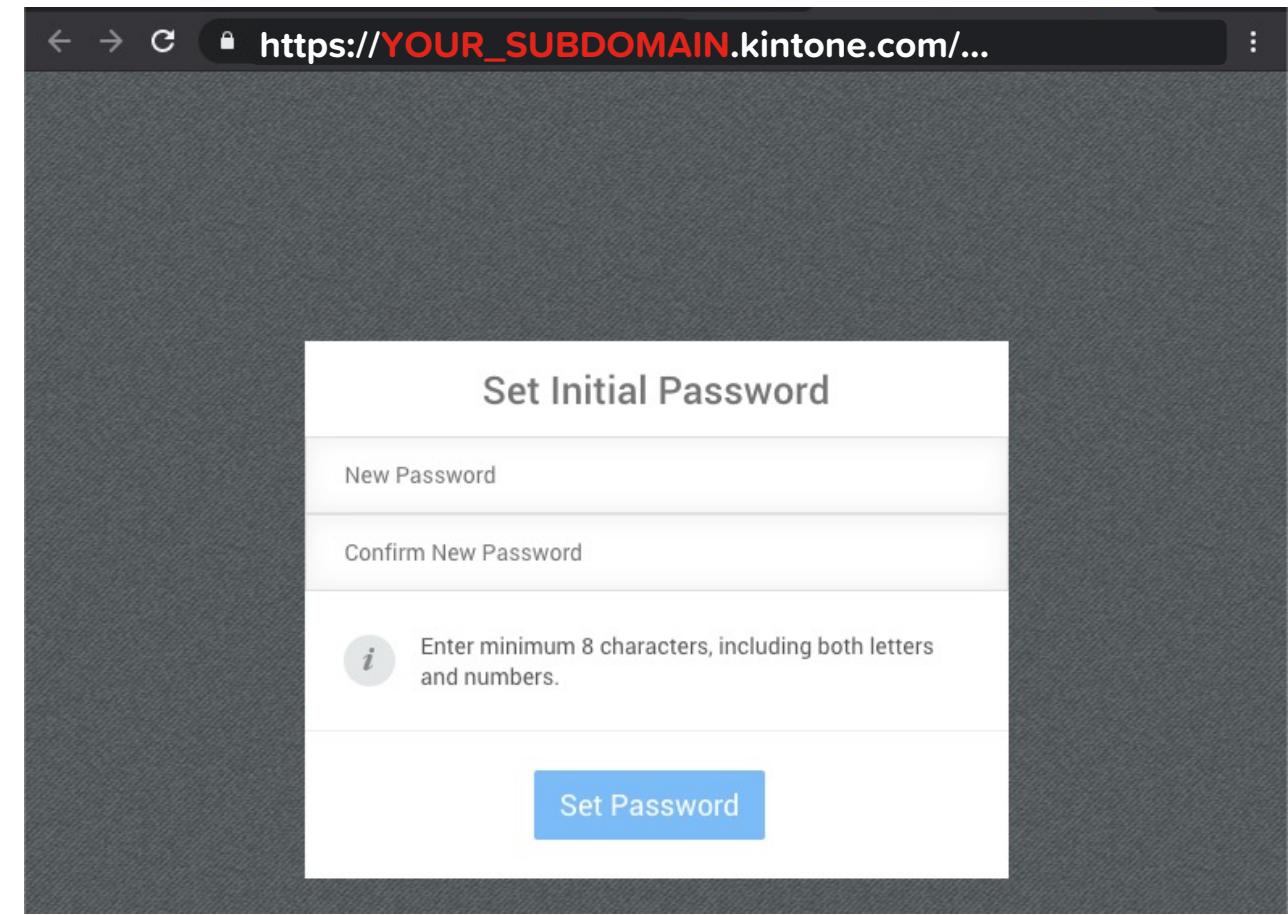


Check Your Email

Welcome to Kintone! One More Step To...



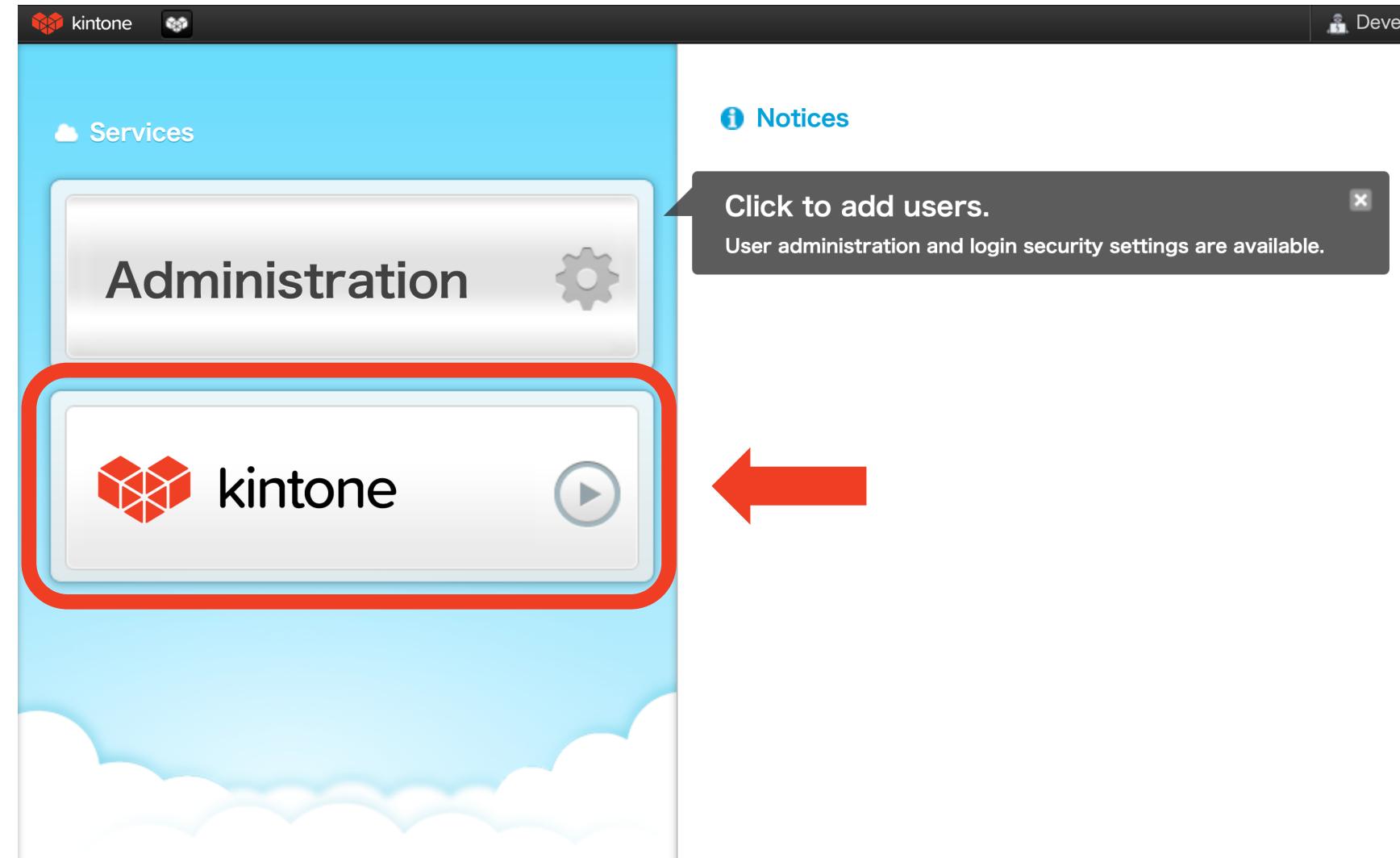
YOUR_SUBDOMAIN.kintone.com



Let's Log into Kintone

Click on Kintone button on the Left side

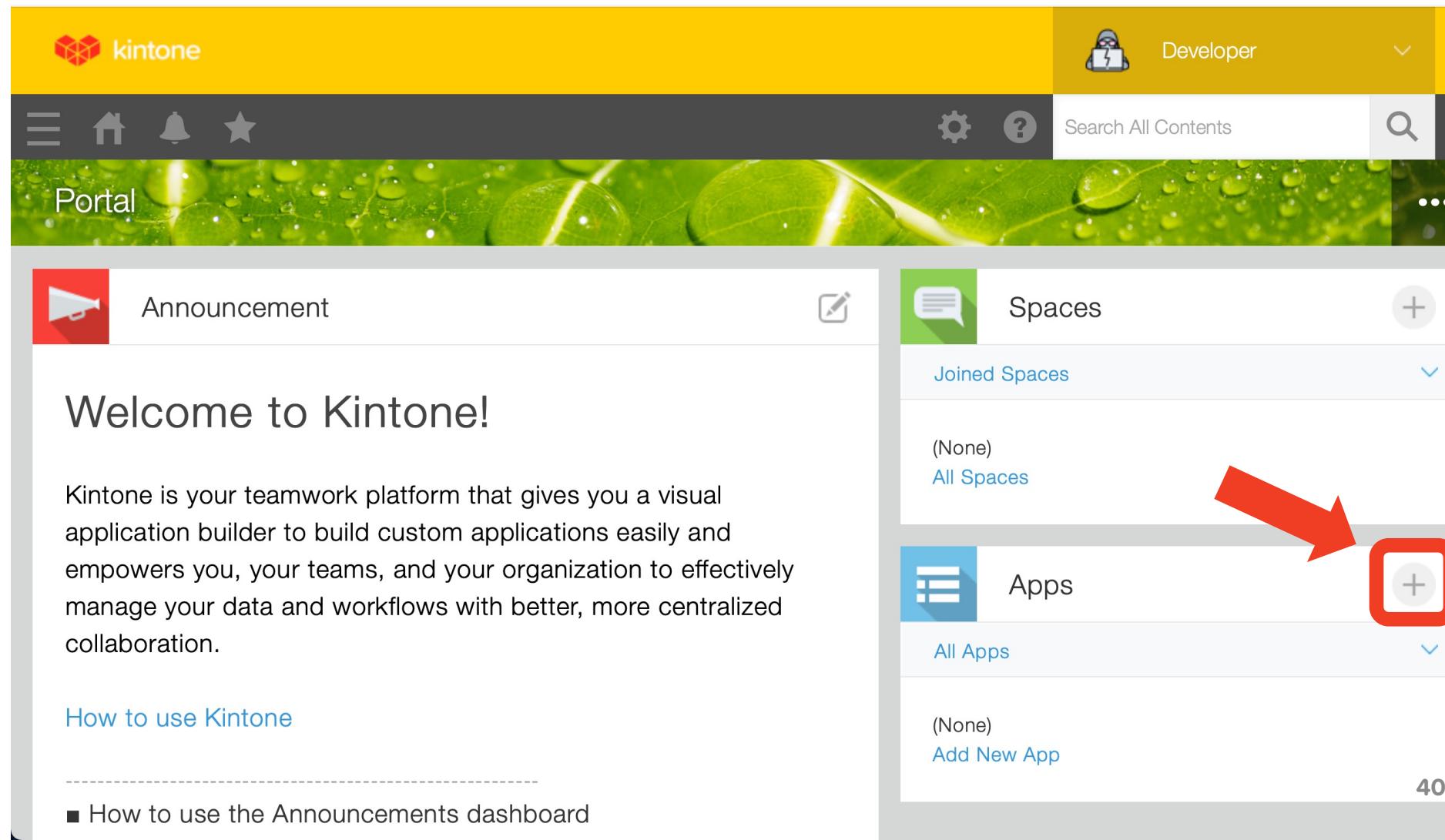
The email has the initial registration link & subdomain



Create a Kintone Database App

From the Portal screen

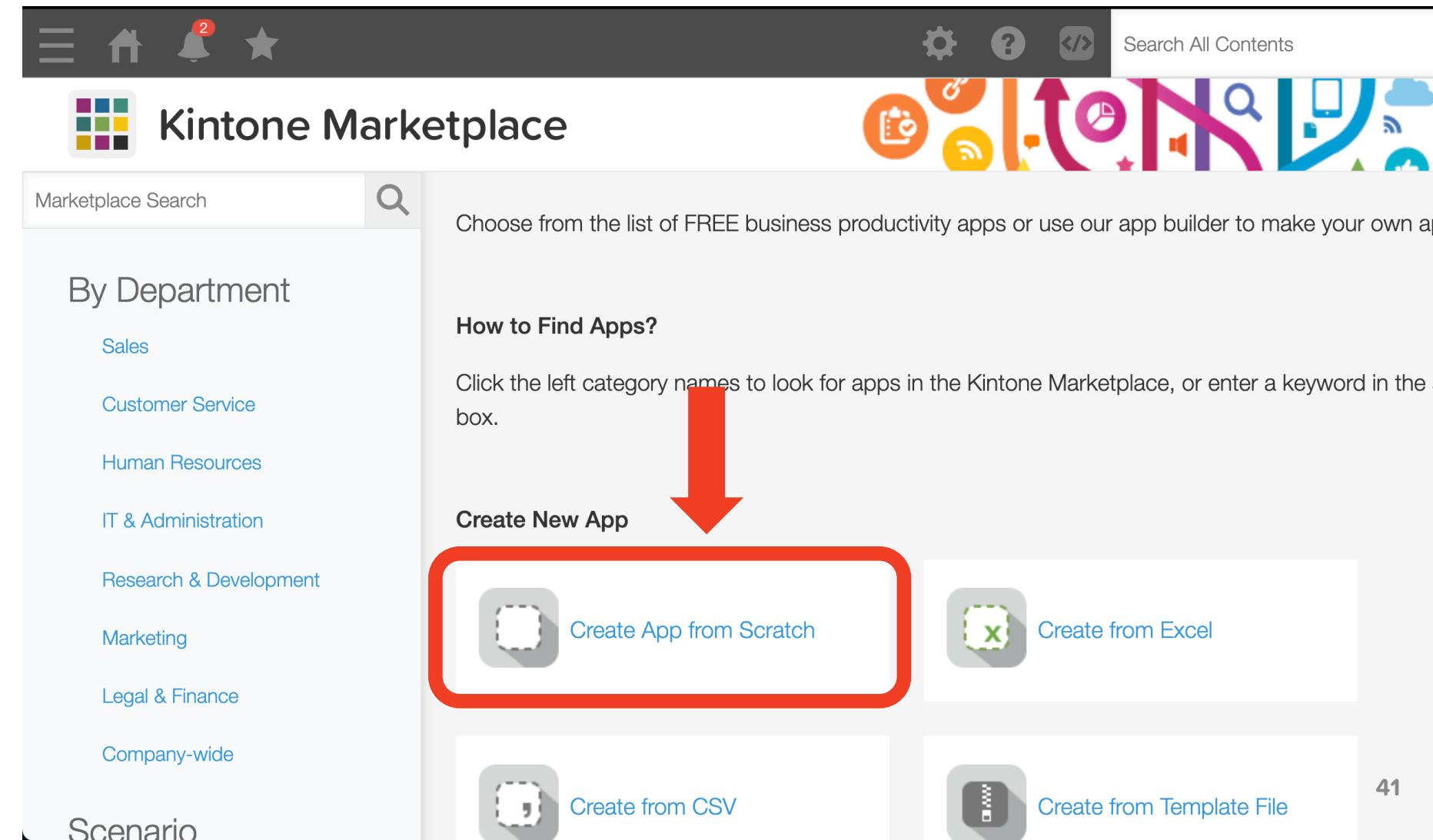
Click the
[+] button
on the
Right side



Create App from Scratch

On Kintone
Marketplace...

Click on
**Create App from
Scratch**



Name the App

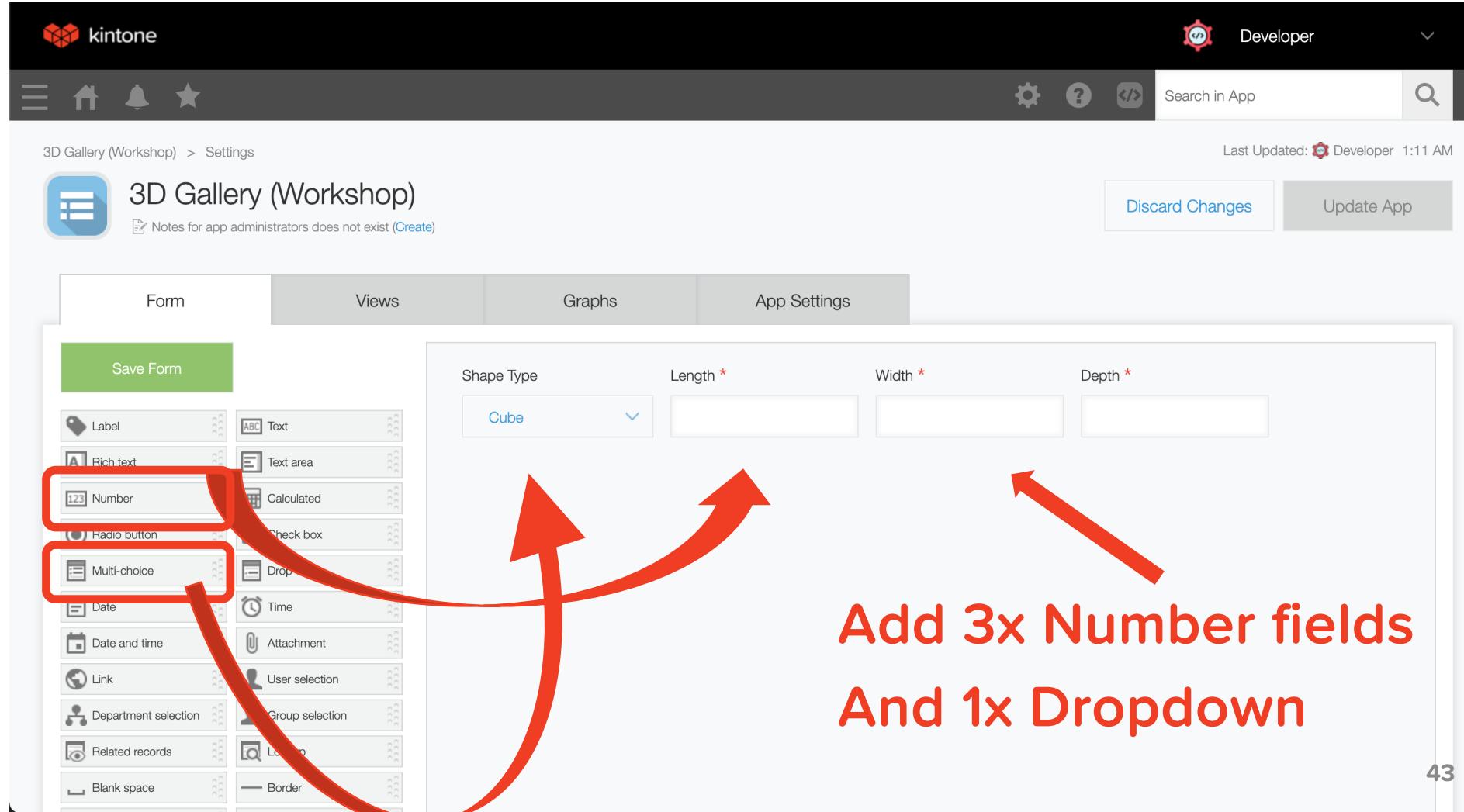
Replace the
"New App" with
your App's Title

We will input
"3D Gallery"

The screenshot shows the kintone 'New App' creation interface. At the top, there is a yellow header bar with the kintone logo, a developer icon, and a search bar labeled 'Search All Contents'. Below the header is a dark navigation bar with icons for home, settings, and help. The main area shows the breadcrumb path: Kintone Marketplace > New App > Settings. A red arrow points to the 'New App' title field, which contains the placeholder text 'New App'. Below the title is a note: 'Notes for app administrators: This app does not exist (Create)'. The interface has tabs for 'Form', 'Views' (which is selected), 'Graphs', and 'App Settings'. On the left, there is a 'Save Form' button and a list 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. On the right, there is a large area with a grey arrow pointing down and the text 'Drag and drop fields here.'

Building the Manga Database App

Drag & drop 2x
Text fields into
the middle area.



3D Gallery (Workshop) > Settings

3D Gallery (Workshop)

Notes for app administrators does not exist ([Create](#))

Form Views Graphs App Settings

Save Form

Shape Type: Cube

Length *: []

Width *: []

Depth *: []

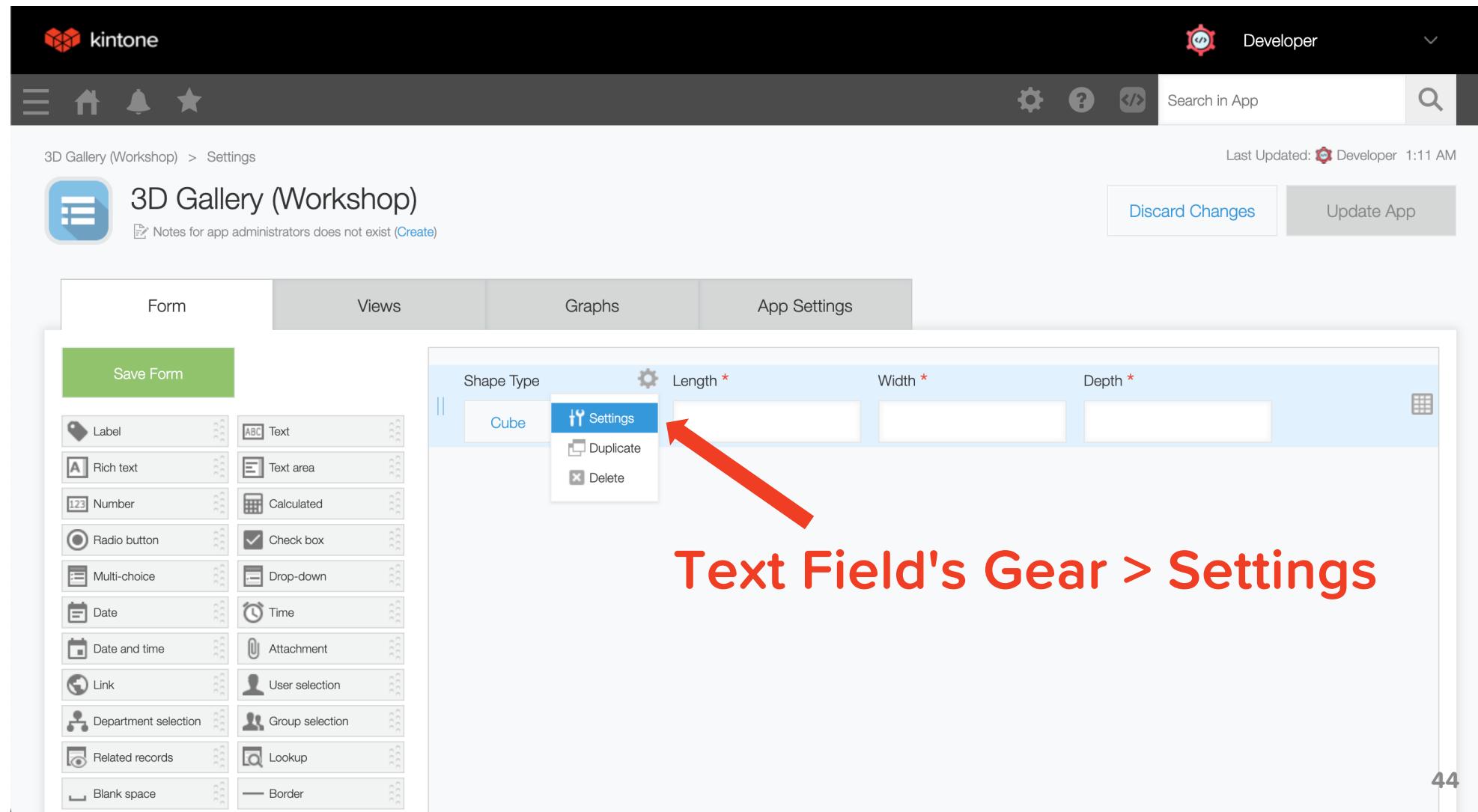
Discard Changes Update App

Add 3x Number fields
And 1x Dropdown

Configure Fields

Click on the Gear from the text field's left corner.

Edit the Name & Field Code

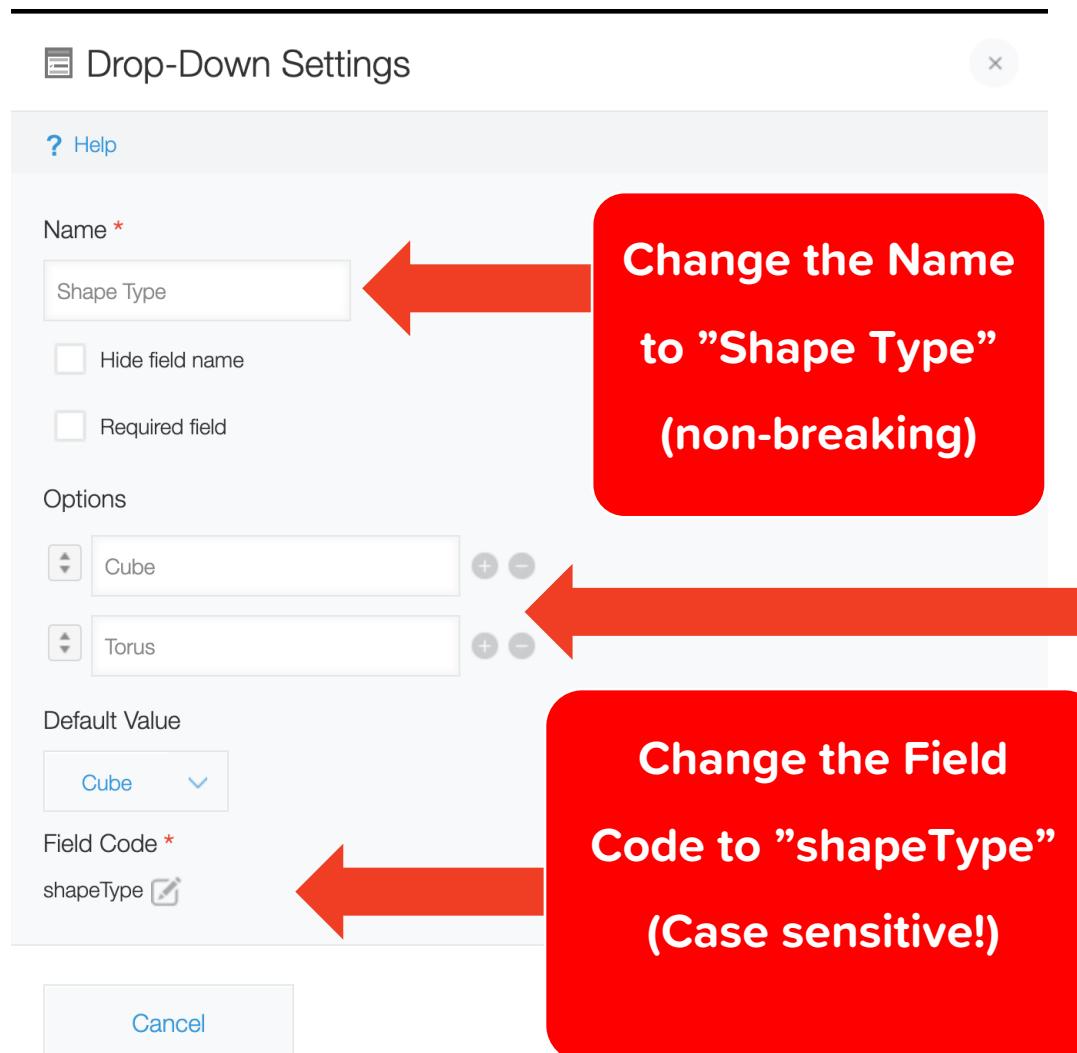


Text Field's Gear > Settings

Inside the Dropdown Settings

Click on the **Gear** from the text field's left corner.

Edit the **Name** & **Field Code** & **Options**



Change the Name
to "Shape Type"
(non-breaking)

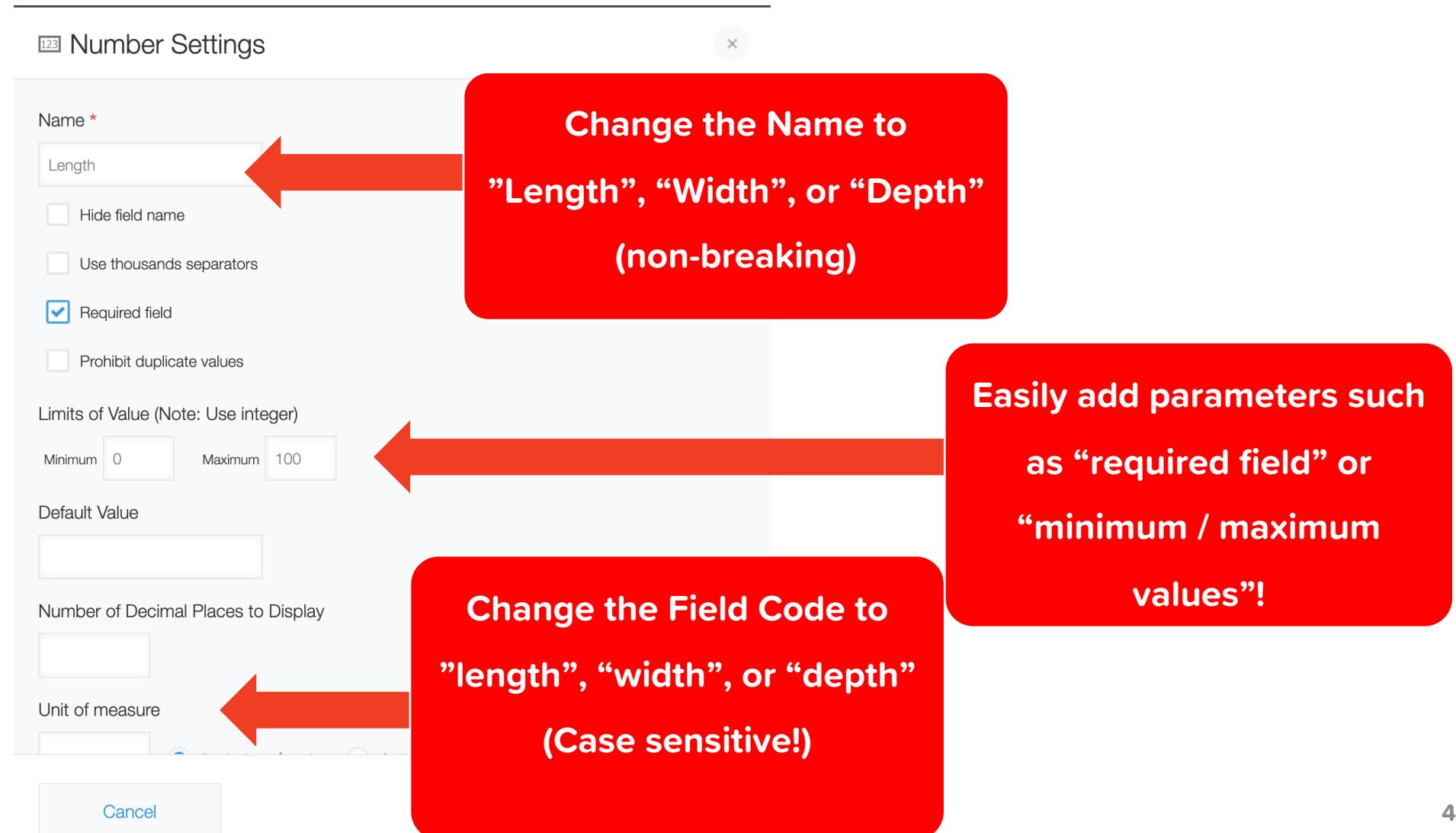
Add two options:
"Cube" & "Torus"
(yes breaking! Case
sensitive!)

Change the Field
Code to "shapeType"
(Case sensitive!)

Inside the Number Settings

Click on the **Gear** from the text field's left corner.

Edit the **Name** & **Other Options**



Inside the Number Settings Part 2

Click on the **Gear** from the text field's left corner.

Edit the **Field Code**

The screenshot shows the 'Number Settings' dialog box. It includes sections for 'Hide field name', 'Required field' (which is checked), 'Prohibit duplicate values', 'Limits of Value' (minimum 0, maximum 100), 'Default Value' (empty input field), 'Number of Decimal Places to Display' (empty input field), 'Unit of measure' (empty input field), and 'Field Code *'. A red arrow points to the 'width' input field under 'Field Code *'. To the right of the dialog is a red callout box with white text containing instructions.

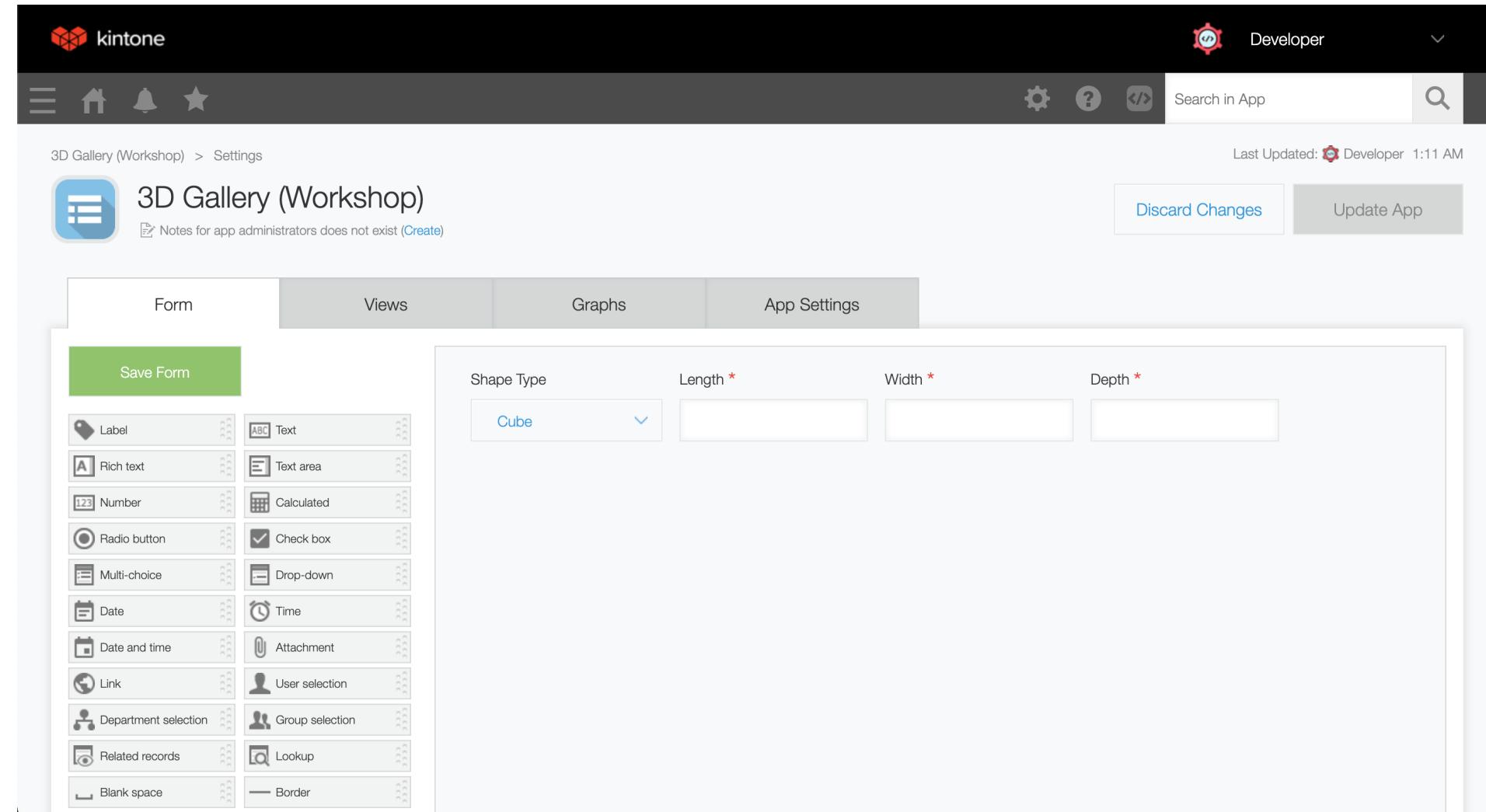
Change the Field Code to
"length", "width", or "depth"
(Case sensitive!)

Does Your App Look Like This?

We changed...

Title
Added 1x
Dropdown &
Added 3x
Number Fields

Edited the
Names and
Field Codes



The screenshot shows the kintone application interface for the '3D Gallery (Workshop)' app. The top navigation bar includes the kintone logo, a menu icon, a home icon, a bell icon, a star icon, developer mode, and a search bar. The title '3D Gallery (Workshop) > Settings' is displayed. A note says 'Notes for app administrators does not exist (Create)'. The main area has tabs for 'Form', 'Views', 'Graphs', and 'App Settings'. The 'Form' tab is active, showing a 'Save Form' button and a list of field types: Label, Text, Rich text, Text area, Number, Calculated, Radio button, Check box, Multi-choice, Drop-down, Date, Time, Date and time, Attachment, Link, User selection, Department selection, Group selection, Related records, Lookup, Blank space, and Border. To the right, there are fields for 'Shape Type' (set to 'Cube'), 'Length *', 'Width *', and 'Depth *'. Buttons for 'Discard Changes' and 'Update App' are at the bottom right.

Create a Custom View

Within the App

→ Views Tab

→ Add a View

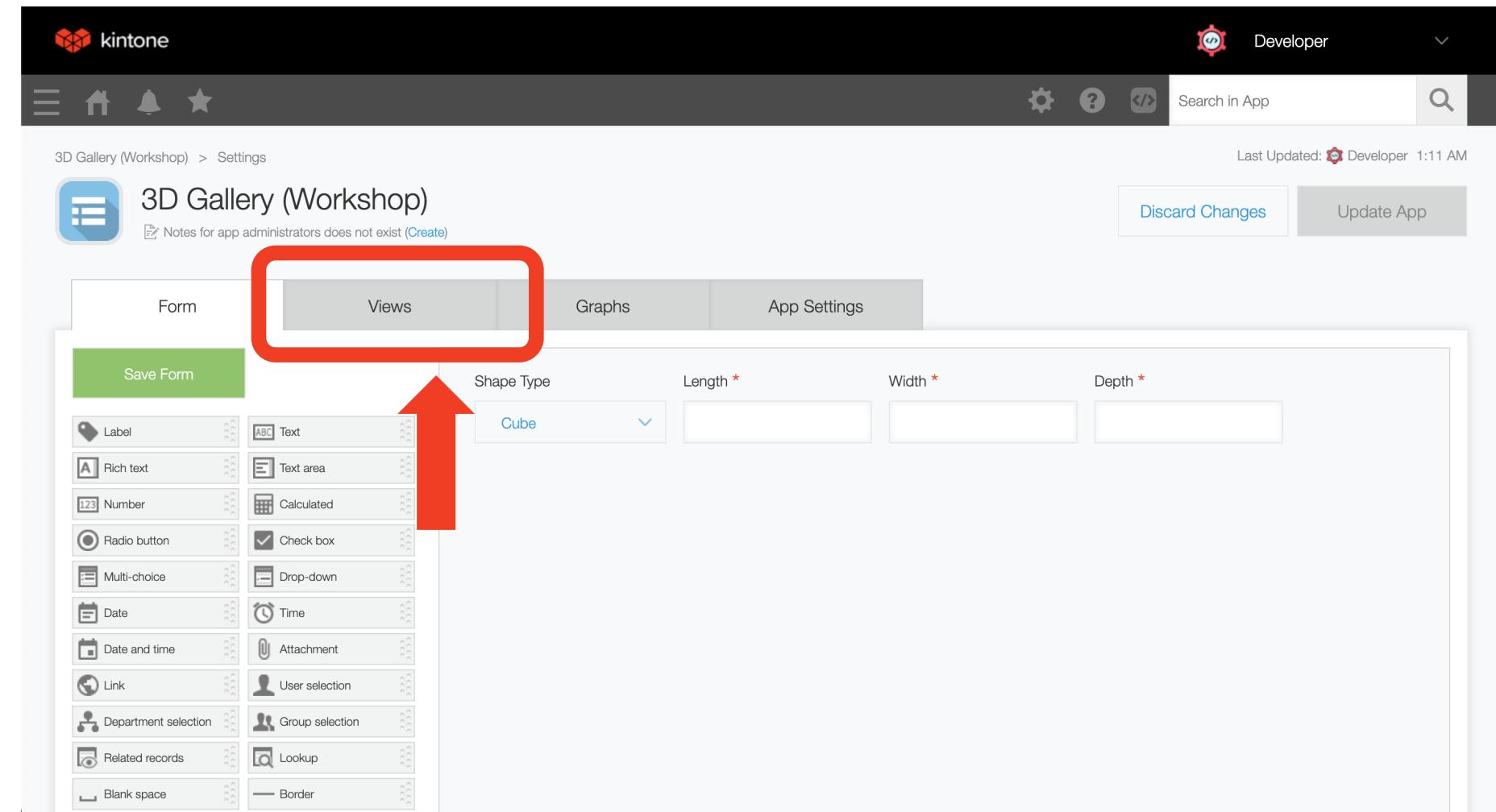
→ Name the View

→ Custom View

→ Get View ID

→ Add div with root

→ Save



Create a Custom View

Within the App

→ Views Tab

→ Add a View

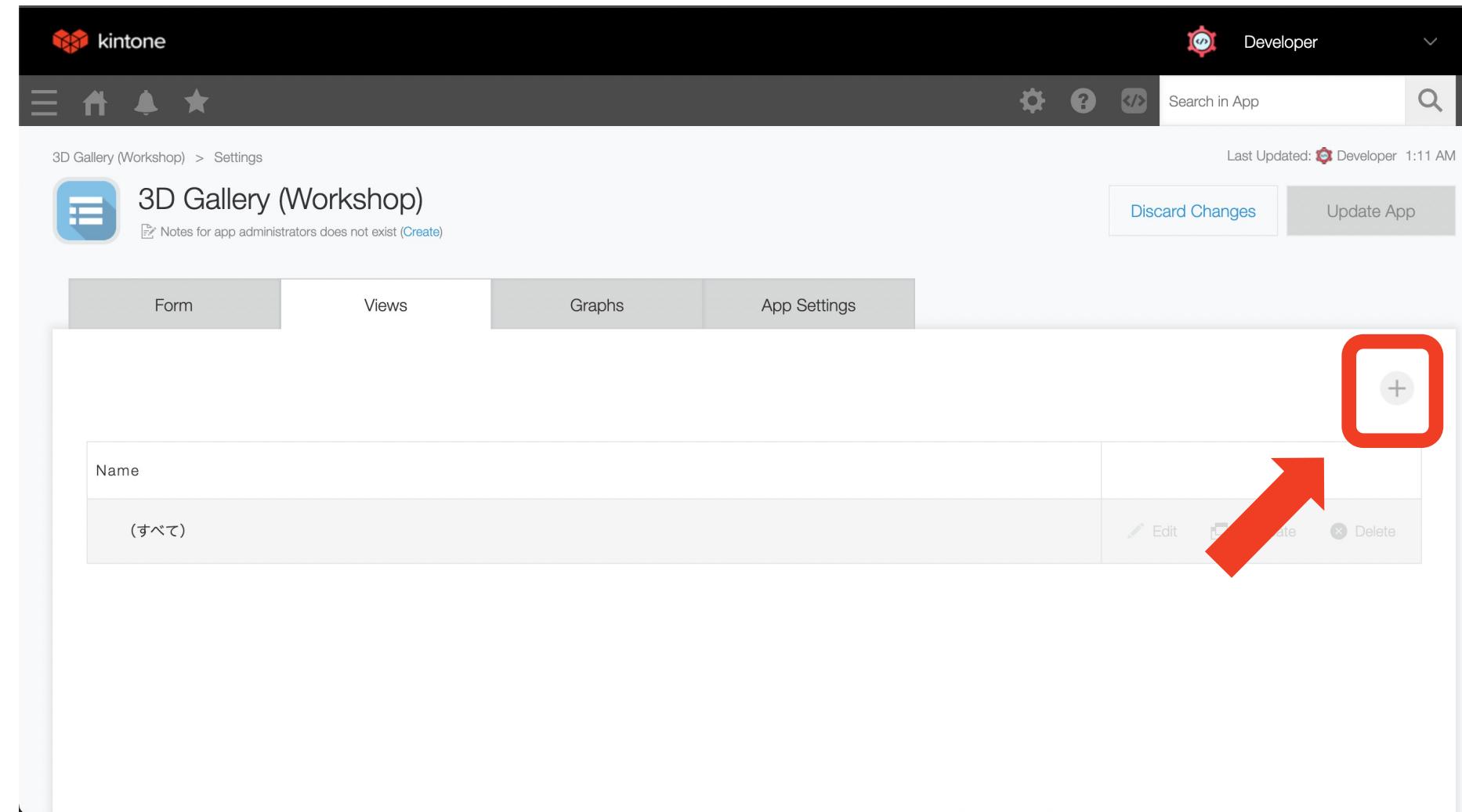
→ Name the View

→ Custom View

→ Get View ID

→ Add div with root

→ Save



Create a Custom View

Within the App

→ Views Tab

→ Add a View

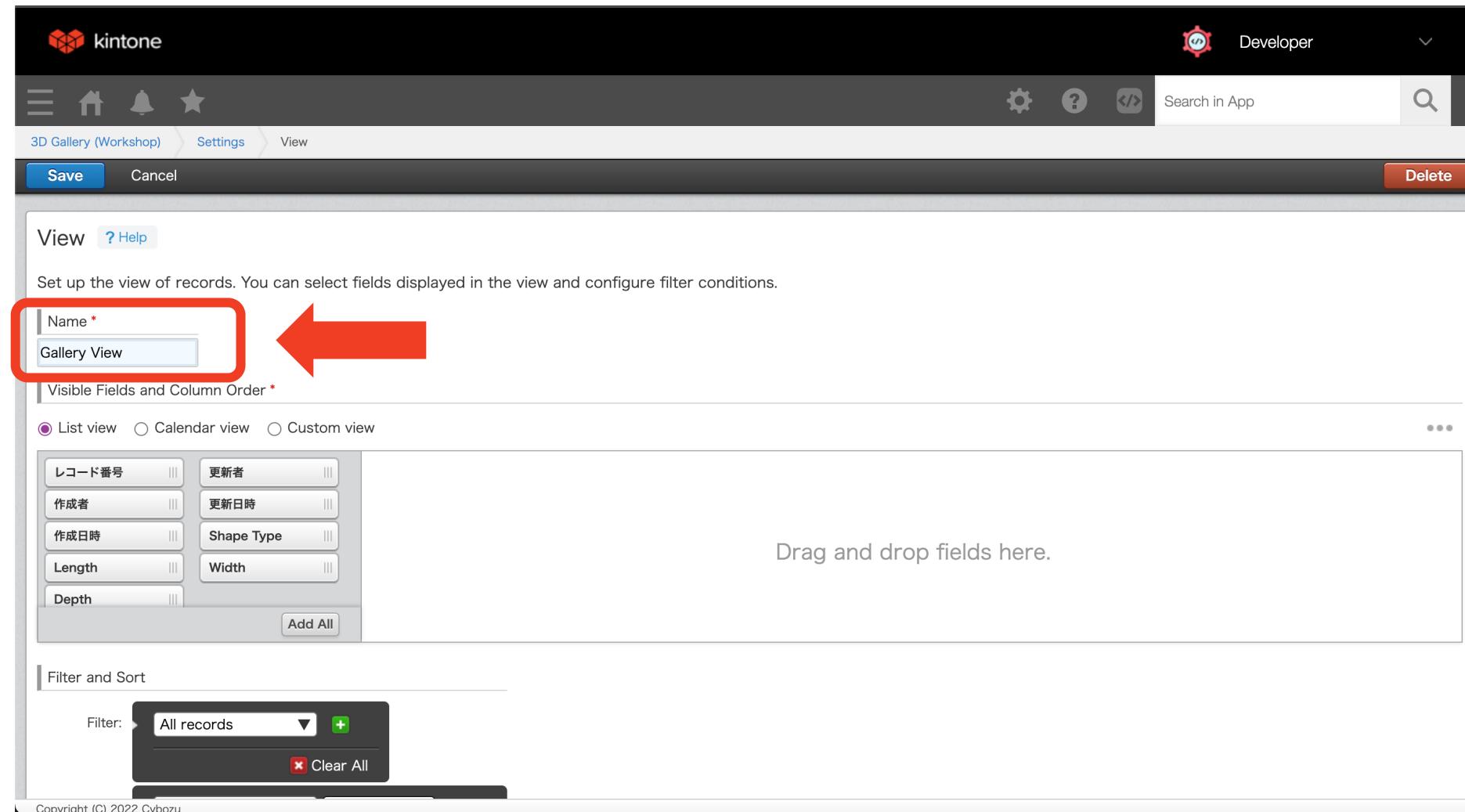
→ Name the View

→ Custom View

→ Get View ID

→ Add div with root

→ Save



Create a Custom View

Within the App

→ Views Tab

→ Add a View

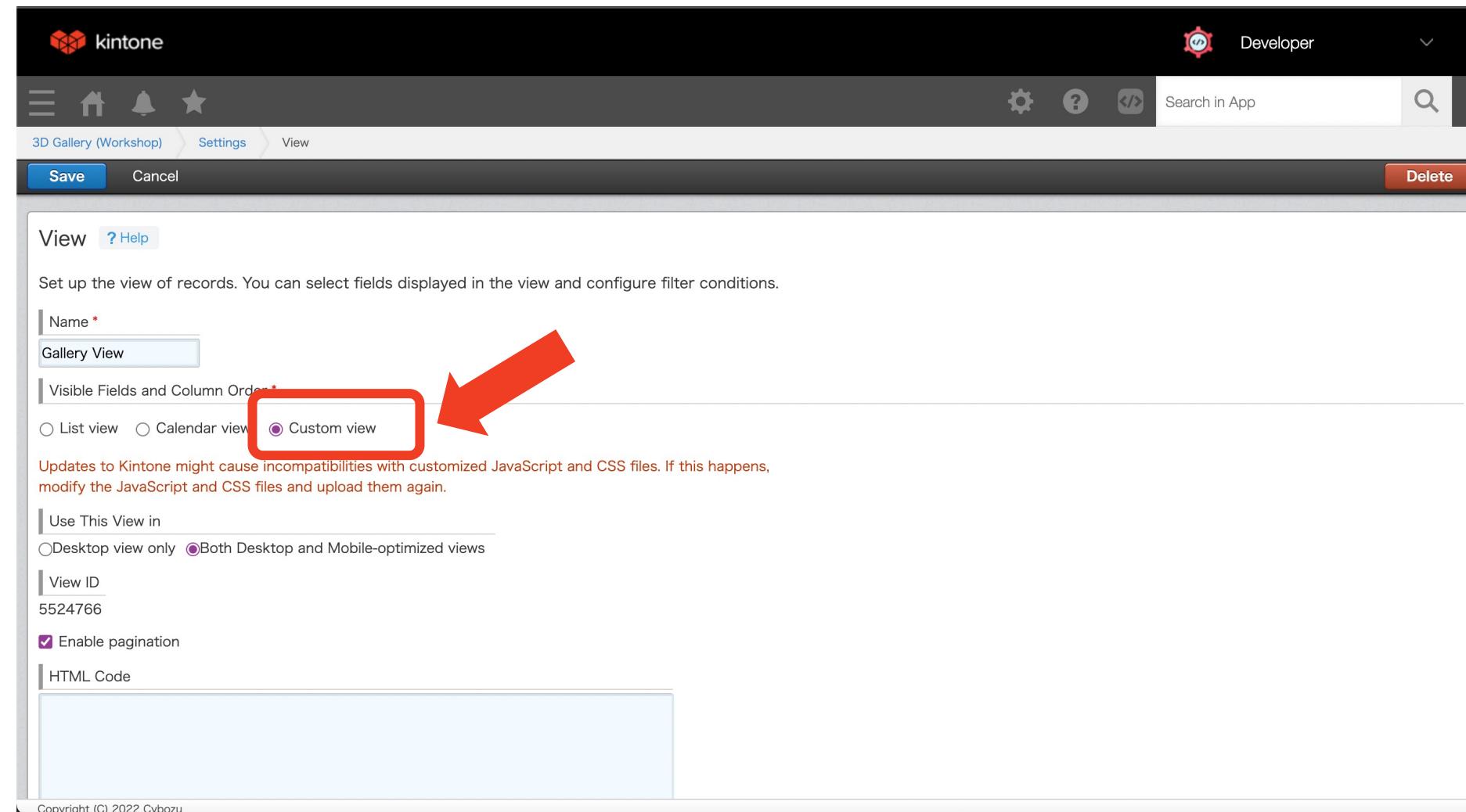
→ Name the View

→ Custom View

→ Get View ID

→ Add div with root

→ Save



Create a Custom View

Within the App

→ Views Tab

→ Add a View

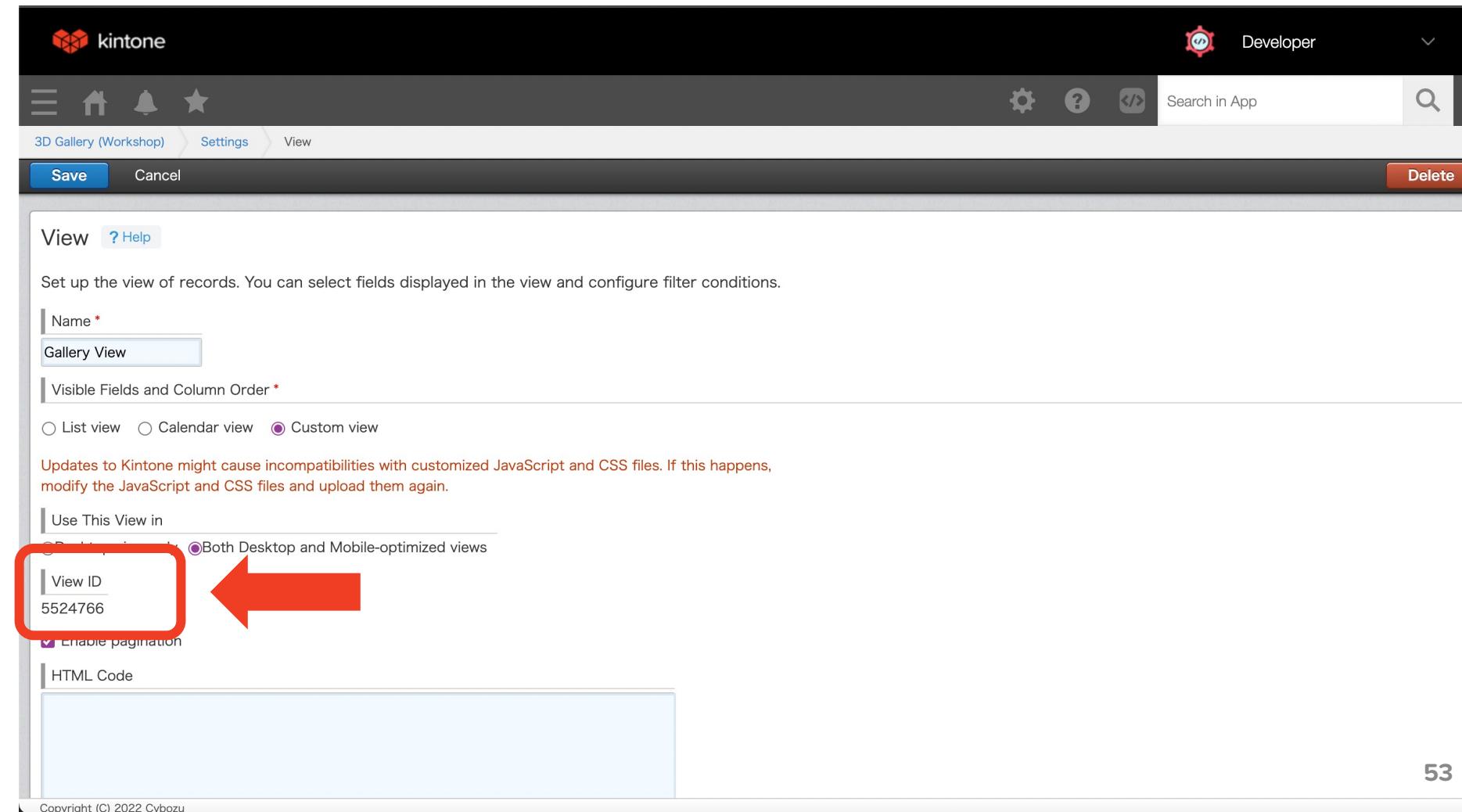
→ Name the View

→ Custom View

→ Get View ID

→ Add div with root

→ Save



Create a Custom View

Within the App

→ Views Tab

→ Add a View

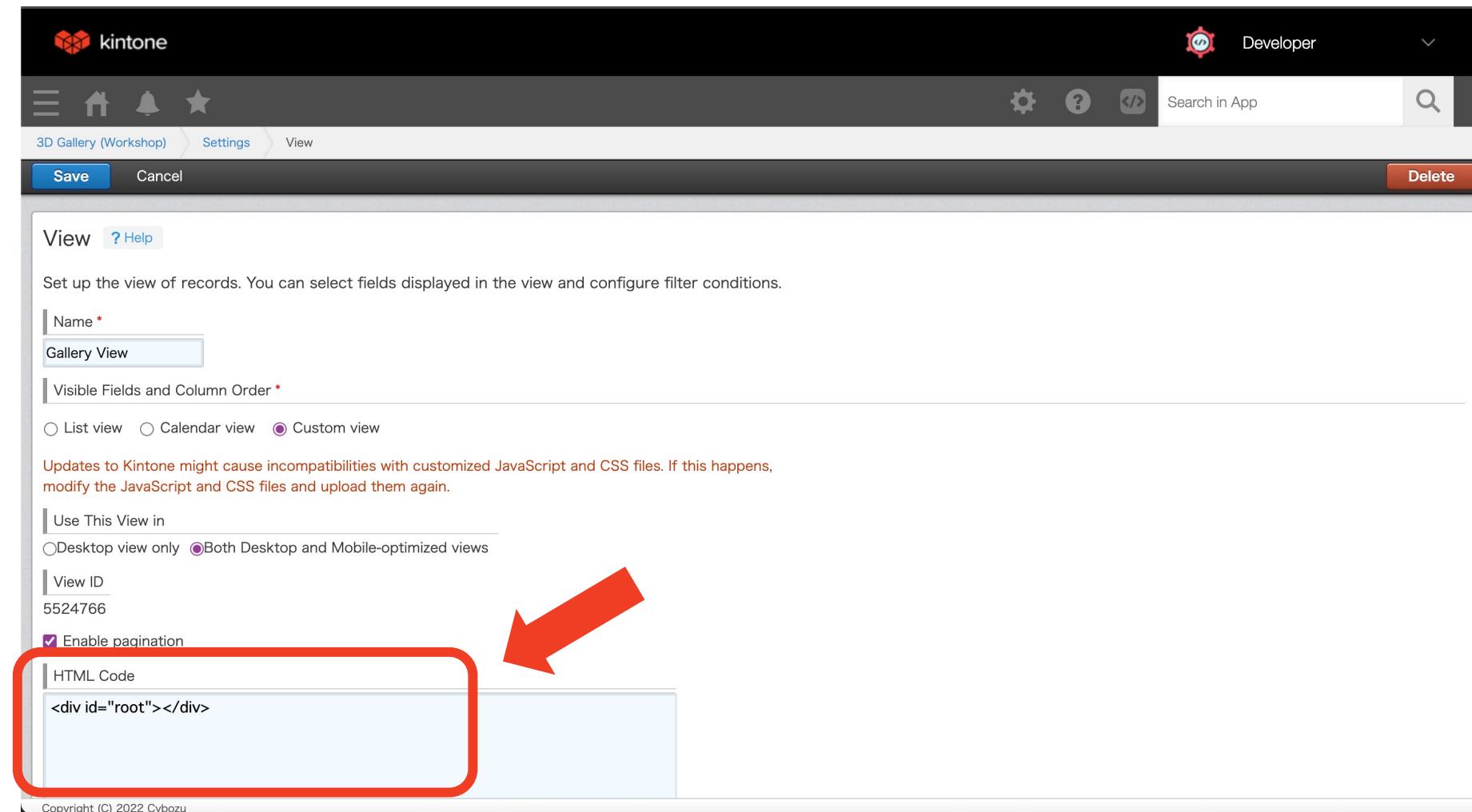
→ Name the View

→ Custom View

→ Get View ID

→ Add div with root

→ Save



Create a Custom View

Within the App

→ Views Tab

→ Add a View

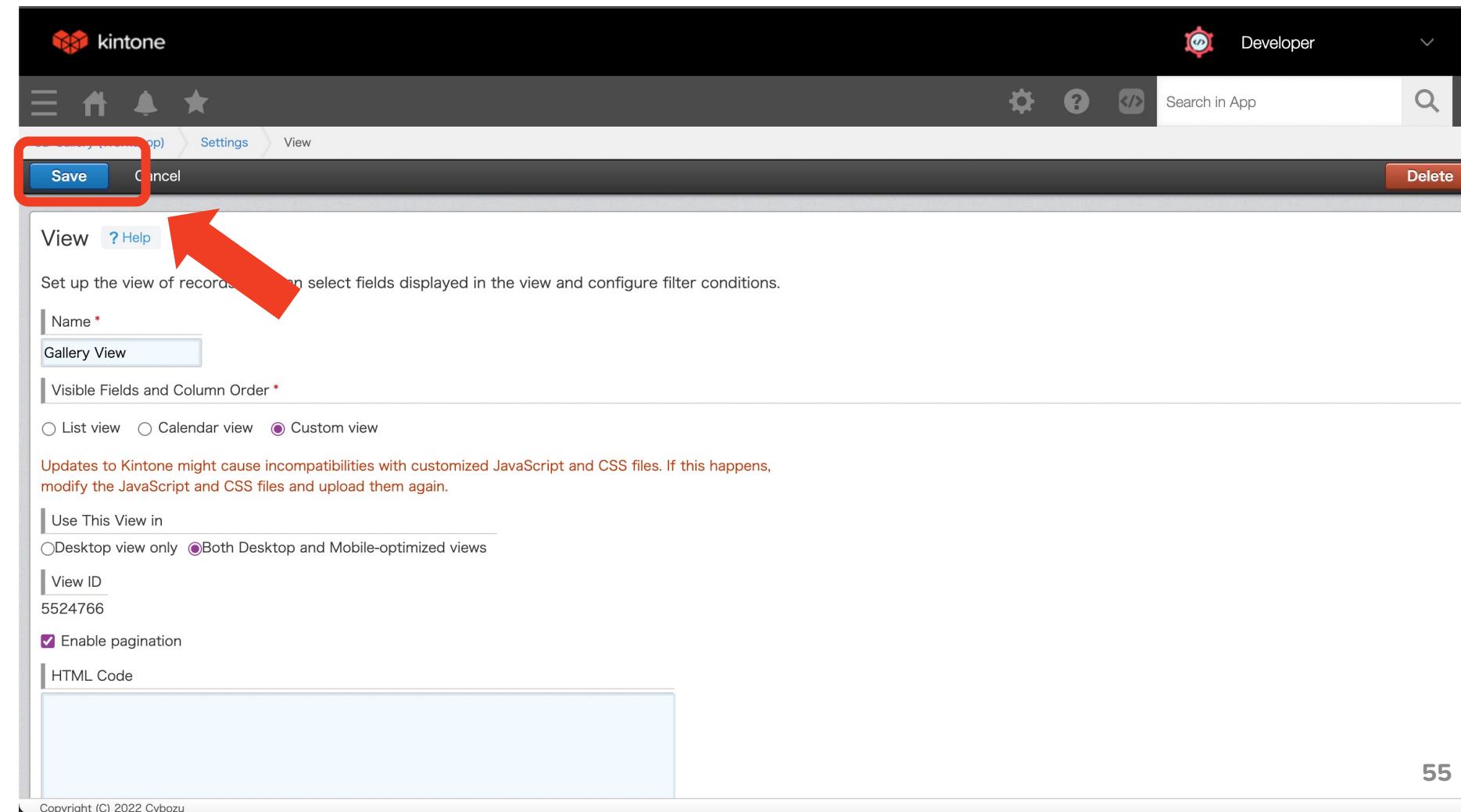
→ Name the View

→ Custom View

→ Get View ID

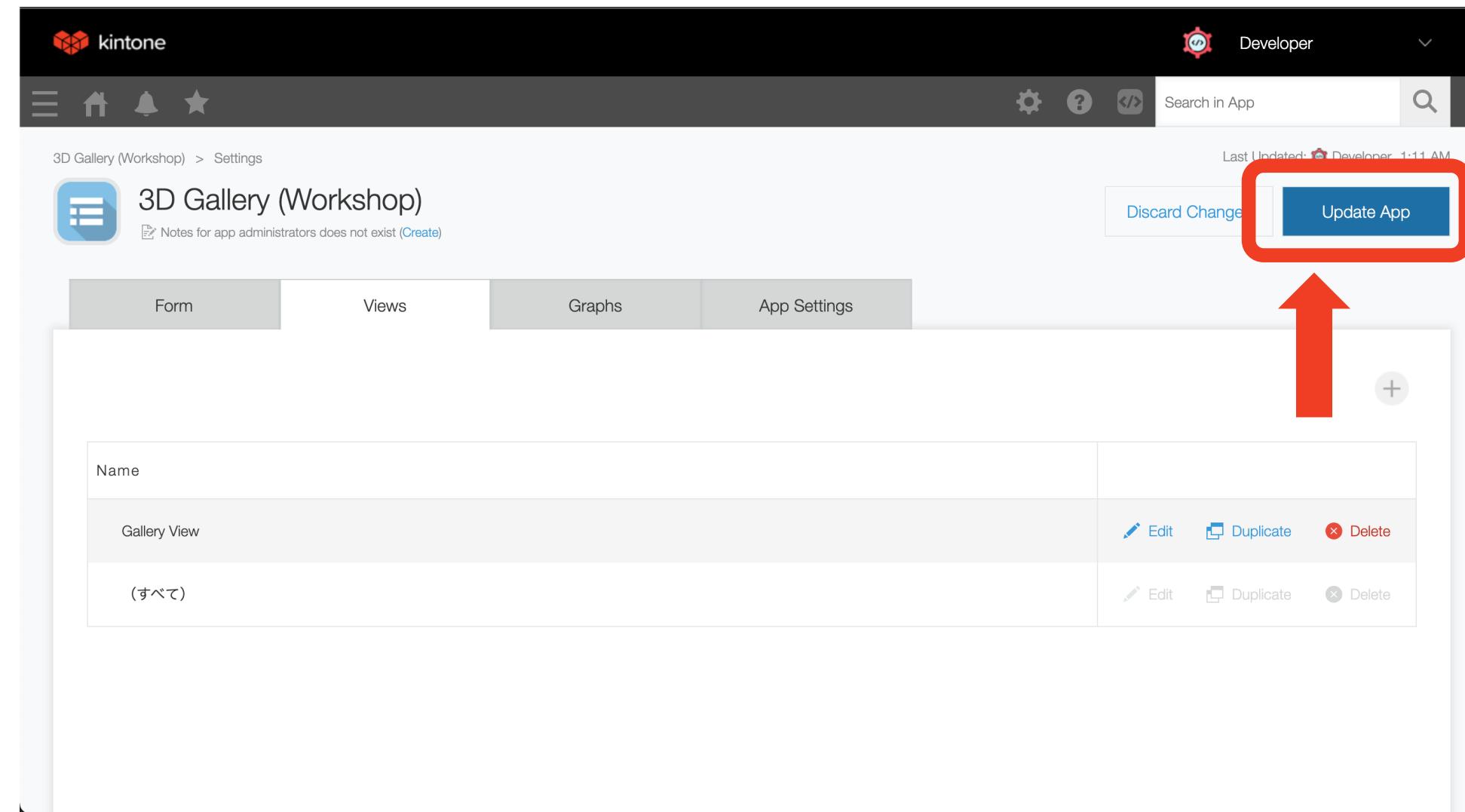
→ Add div with root

→ Save



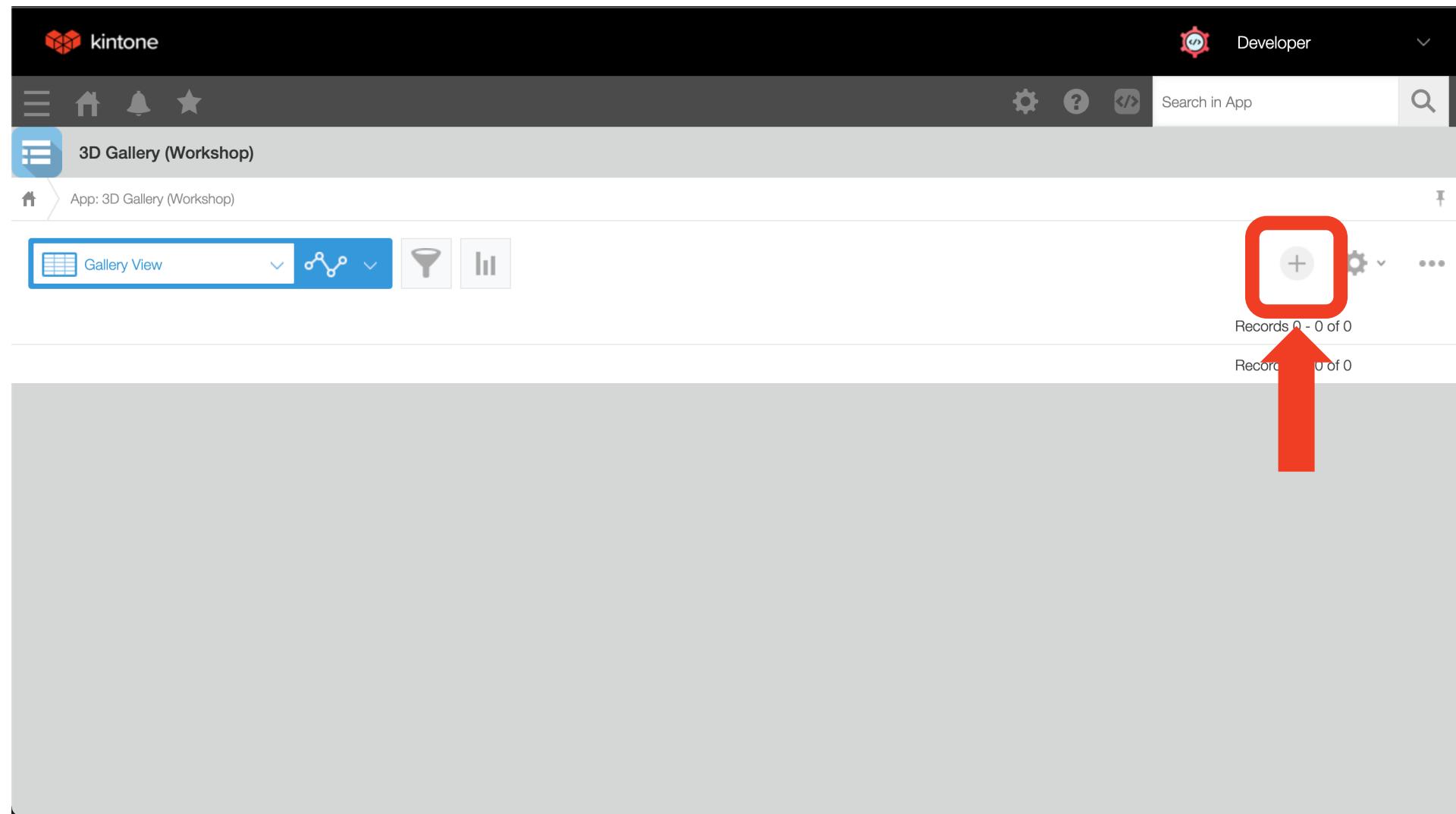
Activate the Kintone Database App

Click on the
Activate App
or
Update App
button to
implement the
changes!



Create a Record

Click the
[+] button
on the
Right side to
create a record



Save a Record

Choose a Shape Type, and input a Length, Width, and Height

Then click the **Save** button

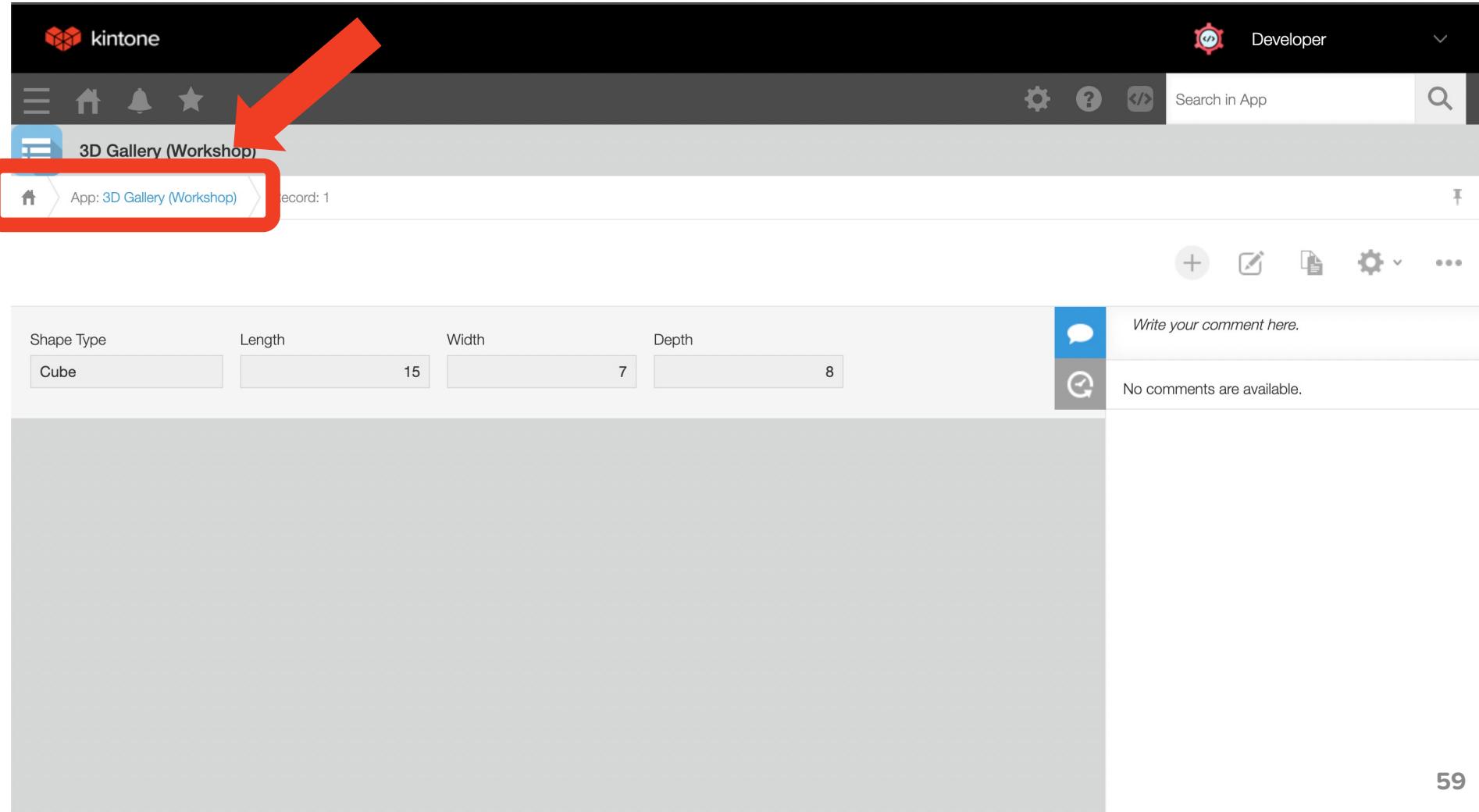
The screenshot shows a kintone application window titled "3D Gallery (Workshop)". The top navigation bar includes the kintone logo, developer mode icon, and search bar. The main area displays the "3D Gallery (Workshop)" app with a sub-header "App: 3D Gallery (Workshop)". Below the header, there are two buttons: "Cancel" and "Save". A red box highlights the input fields for "Shape Type", "Length *", "Width *", and "Depth *". The "Shape Type" field contains "Cube". The "Length *" field has the value "15" with the validation message "Between 0 and 100". The "Width *" field has the value "7" with the validation message "Between 0 and 100". The "Depth *" field has the value "8" with the validation message "Between 0 and 100". A large red arrow points from the bottom right towards the "Save" button.

Shape Type	Length *	Width *	Depth *
Cube	15 Between 0 and 100	7 Between 0 and 100	8 Between 0 and 100

View a Record

You created
your first record!

Click on the
blue 3D Gallery
link to view all
the records



The screenshot shows the kintone application interface. At the top, there's a navigation bar with icons for home, notifications, and search, followed by the 'Developer' status and a 'Search in App' field. Below the navigation bar, the title '3D Gallery (Workshop)' is displayed, with a red arrow pointing to it from the text above. The main content area shows a single record with the following details:

Shape Type	Length	Width	Depth
Cube	15	7	8

Below the table, there's a comment section with a placeholder 'Write your comment here.' and a message stating 'No comments are available.' The bottom right corner of the screen shows the page number '59'.

Going to the Custom View

After creating
few more
records

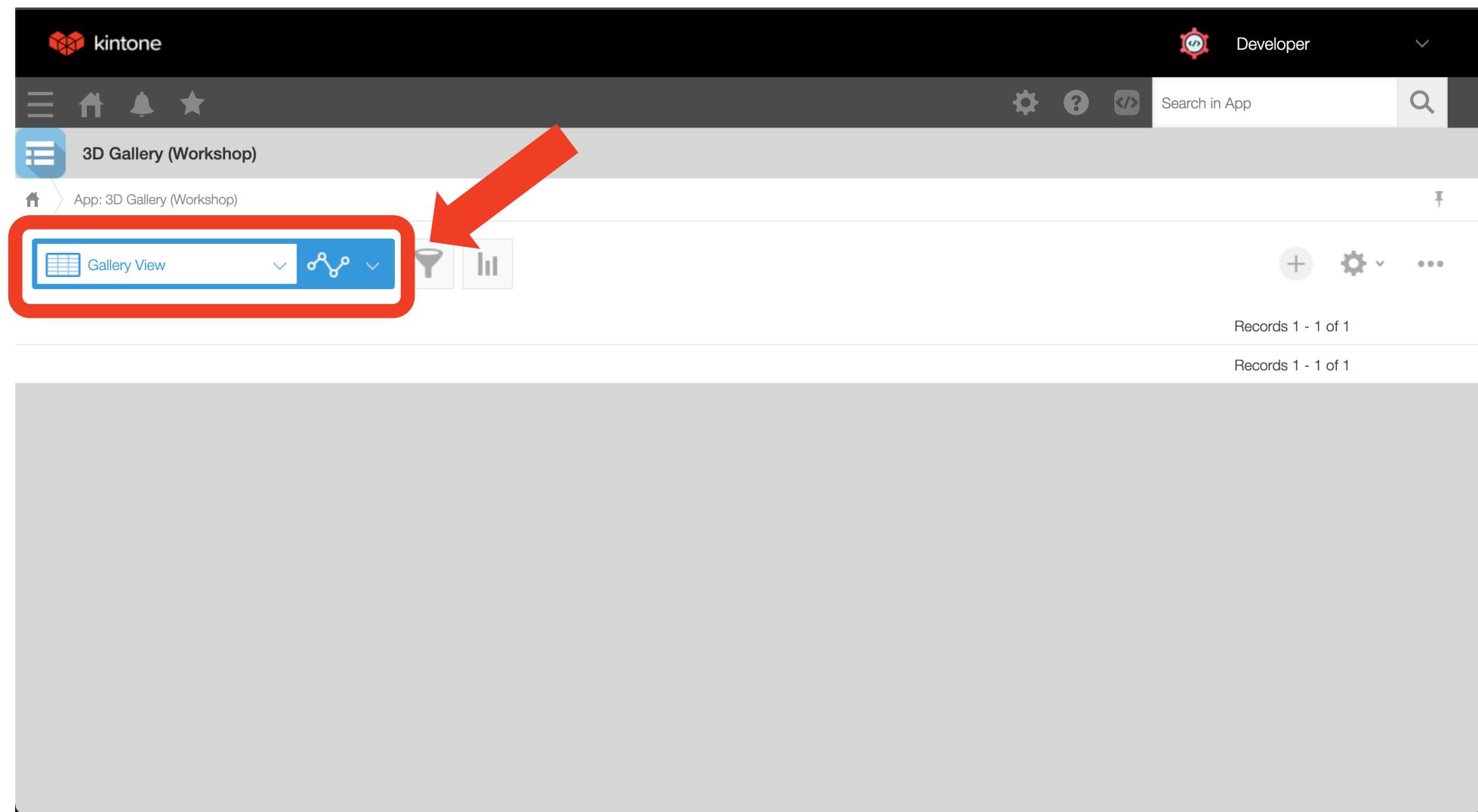
Let's go to the
Custom View:
Gallery View

The screenshot shows the kintone application interface. At the top, there is a navigation bar with the kintone logo, a search bar labeled 'Search in App', and a 'Developer' button. Below the navigation bar, the title '3D Gallery (Workshop)' is displayed, along with a breadcrumb trail 'App: 3D Gallery (Workshop)'. The main area contains a table with one record. A red arrow points to a dropdown menu in the top left corner of the table header, which is currently set to 'Gallery View'. The table has columns for 'Shape Type', 'Length', 'Width', and 'Depth'. The single record shows 'Cube' as the shape type, and dimensions of 15, 7, and 8 respectively. The bottom right corner of the table header displays the text 'Records 1 - 1 of 1'.

Shape Type	Length	Width	Depth
Cube	15	7	8

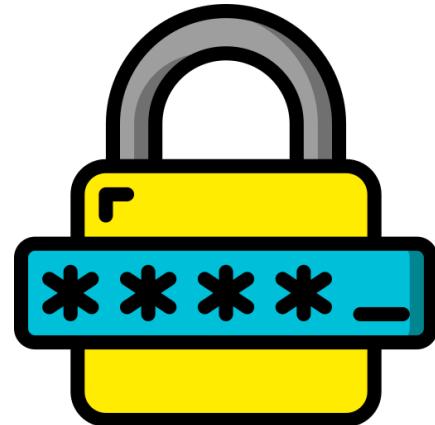
Going to the Custom View

Since we have
not completed
the
customization,
we do not see
anything... YET!



Connect Kintone to the Project

1. Input Kintone Subdomain
2. Input Kintone Login Credentials
3. Input View ID from Custom View setting
4. Update App ID in
customize-manifest.json



Go inside the .env.example file

- **.env.example** file is used to verify that **.env** file is correctly configured
- Duplicate this file & name it "**.env**"

```
KINTONE_BASE_URL=
KINTONE_USERNAME=
KINTONE_PASSWORD=
VIEW_ID=
```

Example .env file

```
KINTONE_BASE_URL="https://example.kintone.com"  
KINTONE_USERNAME="example@gmail.com"  
KINTONE_PASSWORD="ILoveKintone!"  
VIEW_ID="1234567"
```

Where to get the View ID?

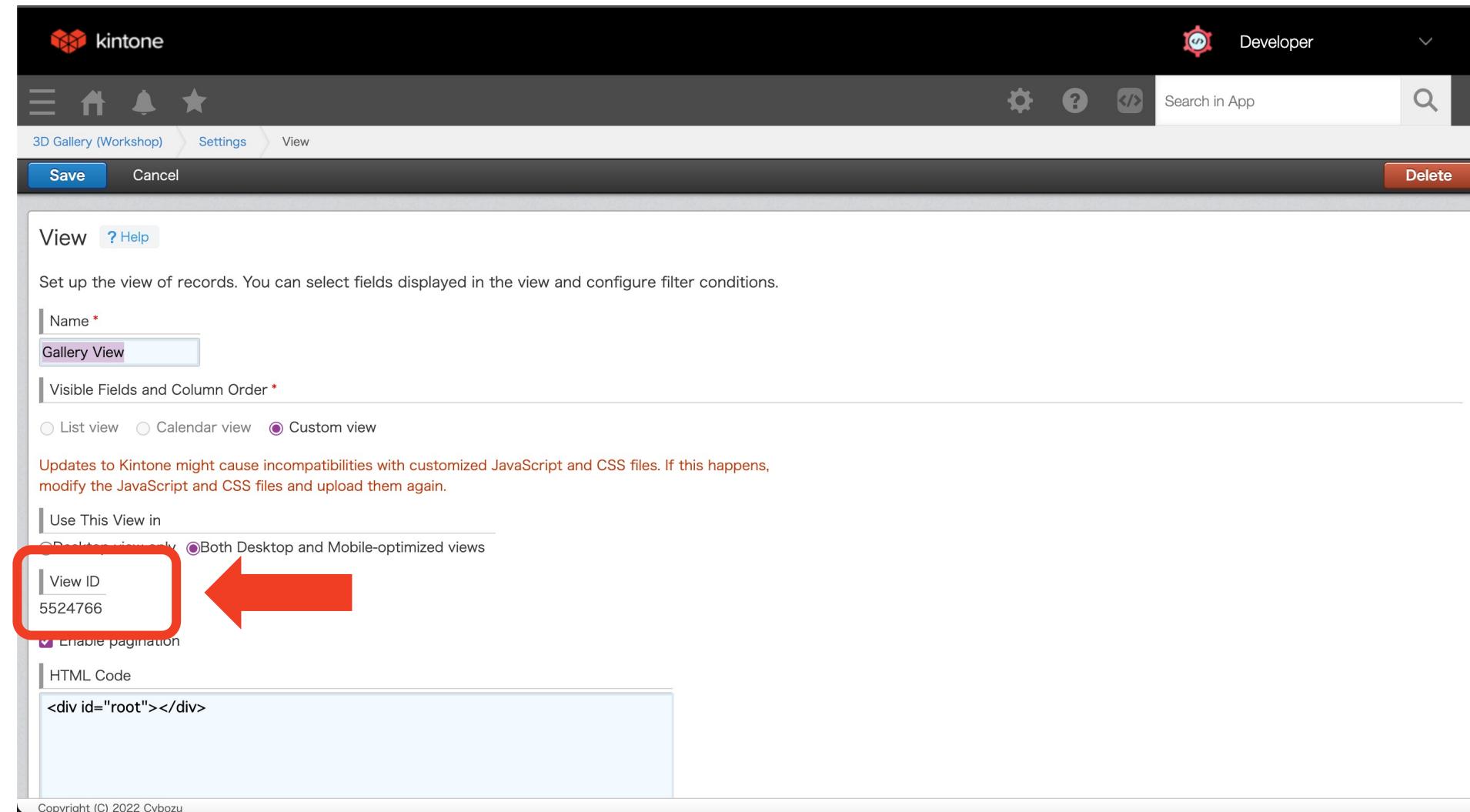
Go to the App

→ App Settings 

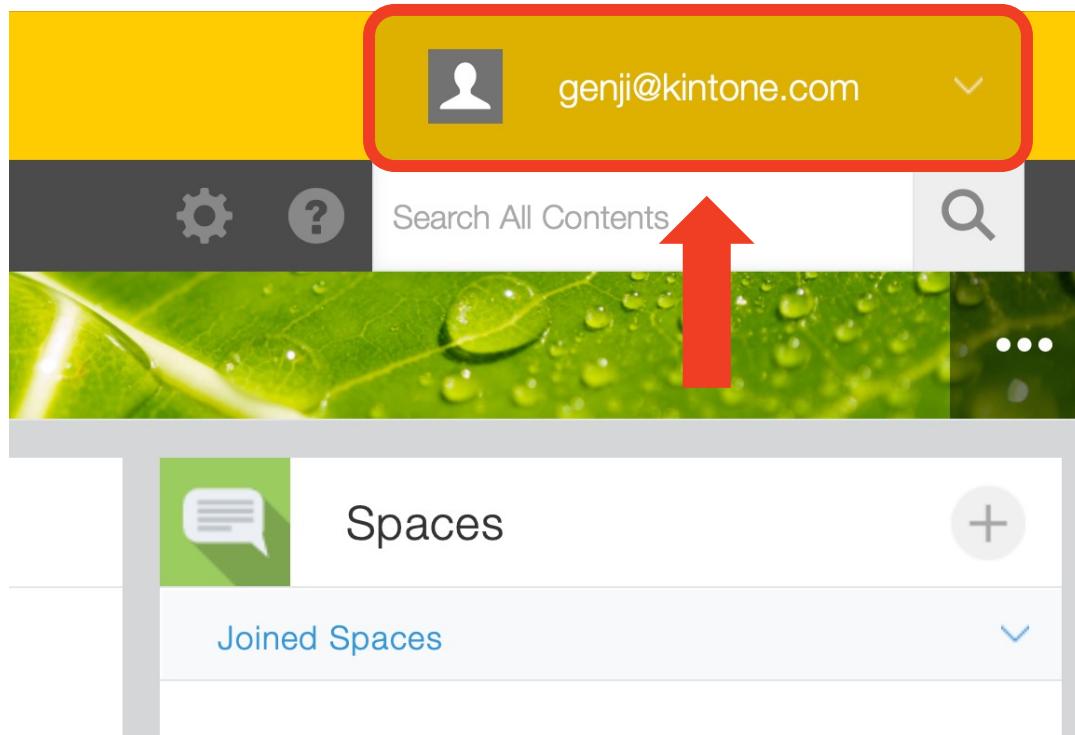
→ View Tab

→ Search Bar View

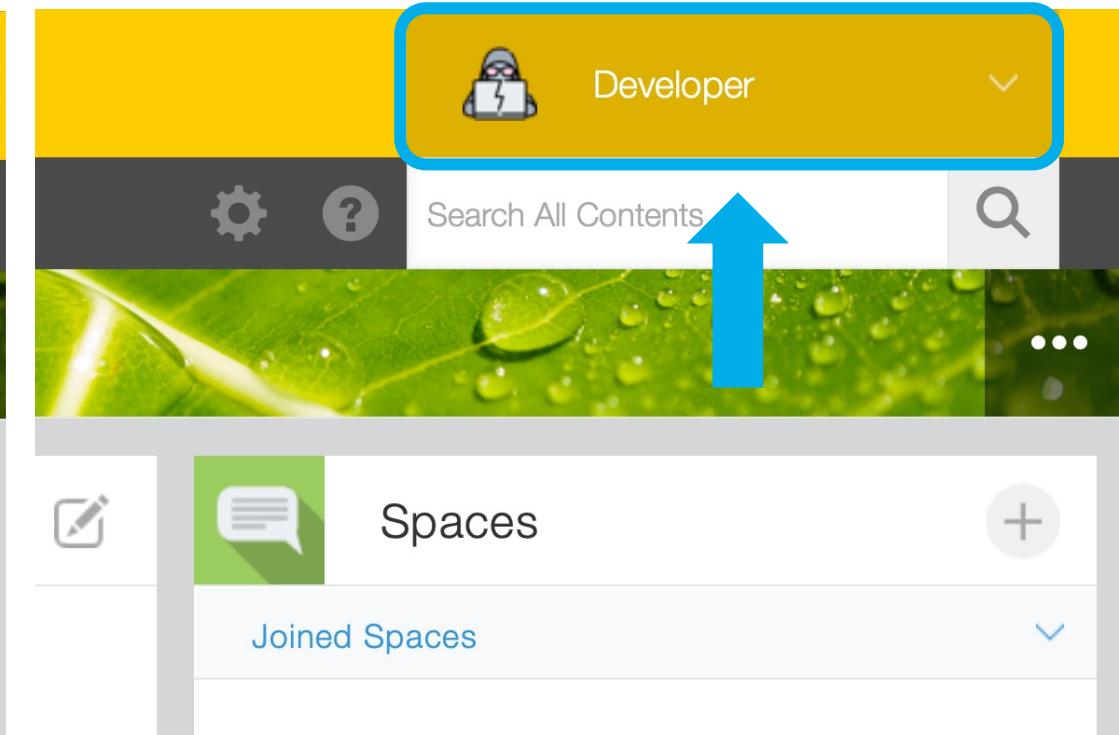
→ Get View ID



Where to get the Username ?



Default: Email address



If modified: Display Name

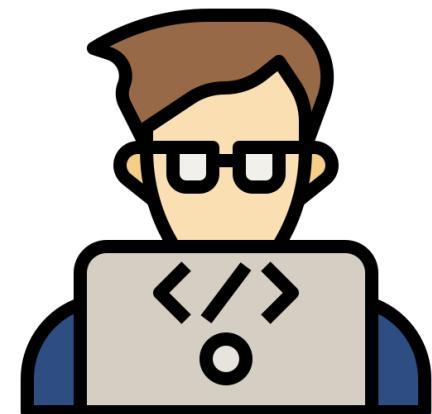
Go inside the `customize-manifest.json` file

- `customize-manifest.json` file is Kintone Customize Uploader's configuration file
- Replace the **10** with your App's ID
- If it is your first Kintone App, it would be **1**

```
{  
  "app": "10", ←  
  "scope": "ALL",  
  "desktop": {  
    "js": ["dist/KintoneCustomization.js"],  
    "css": []  
  },  
  ...  
}
```

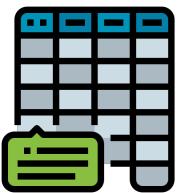
Time to Explore the Code

1. Code Overview
2. Complete the React Components
3. npm run start

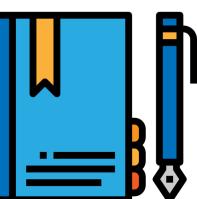
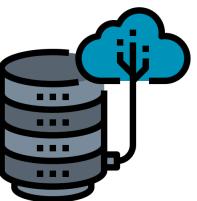
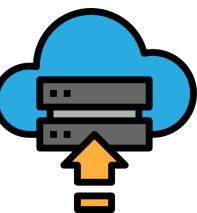


Next Steps

What are the next steps you can take?



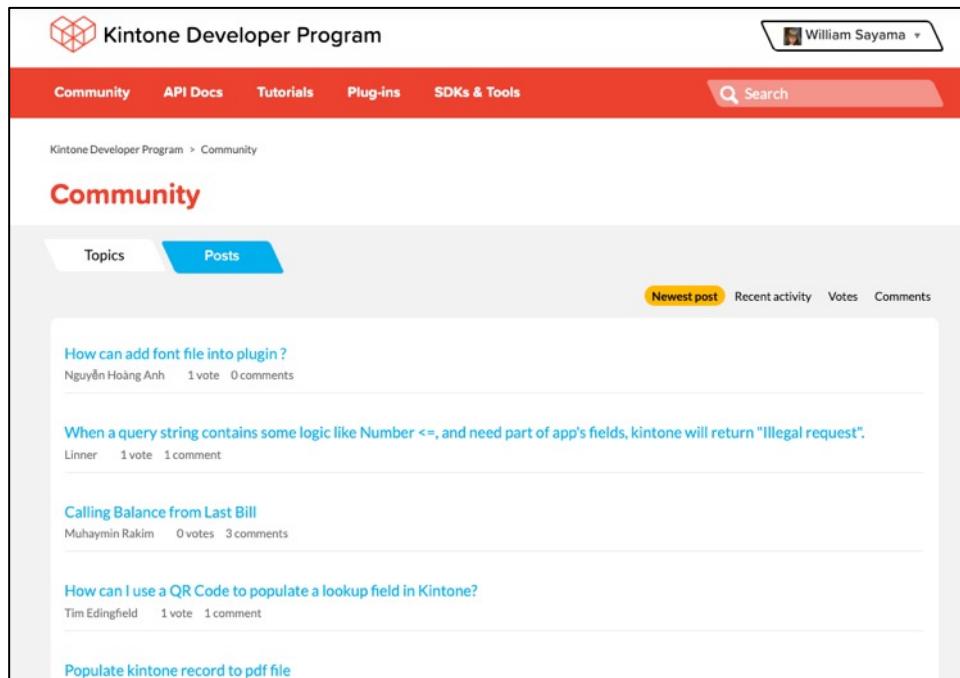
- Add an input form to add shapes to the scene and save them to the database
- Animate the shapes to move along a path
- Add keyboard controls to fly around your scene
- Share your experience on dev.to!



Finally

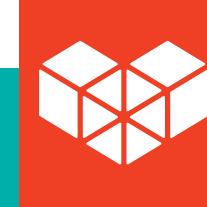
Where Can I Get Help?

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. At the top, there's a navigation bar with links for Community, API Docs, Tutorials, Plug-ins, and SDKs & Tools. A search bar is also present. 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 partially visible at the bottom.





Any
Questions?

developer.kintone.io

Thank You!



Thank You to Our Community Partners!

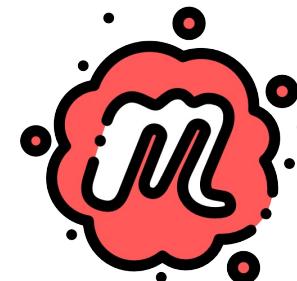


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our YouTube Channel!

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Charts: Bubble Cloud, Word Cloud

Introductions: REST API, JS Promise, React x Kintone



bit.ly/KDP_Video

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chance to win a
\$25 Amazon gift card!**



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SWAG!**

**Limited to US locations*



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