



# Welcome to the

# Medium x Kintone Workshop!

Recording will  
be on YouTube

Download  
Code & Slides

[bit.ly/kdp\\_to\\_medium](https://bit.ly/kdp_to_medium)

**git clone** the GitHub  
Repo



Get Your  
Kintone Subdomain

Developer License  
Registration Form

[bit.ly/KDP\\_NEW](https://bit.ly/KDP_NEW)

Asking Questions  
& Raising Hands

Post questions in  
the chat anytime!

Include your code  
& error messages.



\$25 Gift Card  
Raffle at the End



# Get Started

Let's setup our workshop's starting point!

1. Download the [sean-kintone/publish-to-medium](https://github.com/sean-kintone/publish-to-medium) Repo
2. Go inside the folder & install the dependencies!
3. Lastly, install [@kintone/customize-uploader](https://www.npmjs.com/package/@kintone/customize-uploader) globally

Run these commands  
from your terminal

```
cd Downloads  
git clone https://github.com/sean-kintone/publish-to-medium  
cd publish-to-medium  
npm install  
npm install -g @kintone/customize-uploader
```



# Get Your Kintone Subdomain

- Use Chrome or Firefox
  - NOT Safari
- Accept Cookies First
- Only Use
  - lowercase [a-z]
  - numbers [0-9]
  - hyphens [-]
- No Special Characters
- Ex: weekend-hacker4life

The screenshot shows a web form titled "kintone developer program". At the top, there's a navigation bar with a menu icon, the title, and a search icon. Below the title is the heading "Kintone Developer License Terms of Service". The form contains several input fields and dropdown menus:

- Text input fields for "First Name\*", "Last Name\*", and "Email\*".
- A dropdown menu labeled "Which of the following best describes you?" with the placeholder "Please Select".
- A list of checkboxes under "What first interested you in a Kintone Developer License?":
  - Kintone Workshops
  - dev.to Articles
  - YouTube Videos
  - Other
- A list of checkboxes under "What are you interested in using the Developer License for?":
  - Studying programming
  - Codeless app development
  - Easy to use backend / Database
  - Making plugins for clients
  - My workplace uses it
  - Not sure yet!
- A text input field for "Create your Kintone Developer License subdomain (lowercase, numbers and hyphens only)\*" with the placeholder "For example: mydomain, coffee-lovers".



# Get Your Kintone Subdomain

The login name is your email

Remember your subdomain!

Your Kintone's login link will be

**YOUR\_SUBDOMAIN.kintone.com**

kintone developer program

Kintone Developer License Terms of Service

First Name\*      Last Name\*      Email\*

Which of the following best describes you?

Please Select

What first interested you in a Kintone Developer License?

Kintone Workshops  
 dev.to Articles  
 YouTube Videos  
 Other

What are you interested in using the Developer License for?

Studying programming  
 Codeless app development  
 Easy to use backend / Database  
 Making plugins for clients  
 My workplace uses it  
 Not sure yet!

Create your Kintone Developer License subdomain (lowercase, numbers and hyphens only)\*  
For example: mydomain, coffee-lovers



# 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!

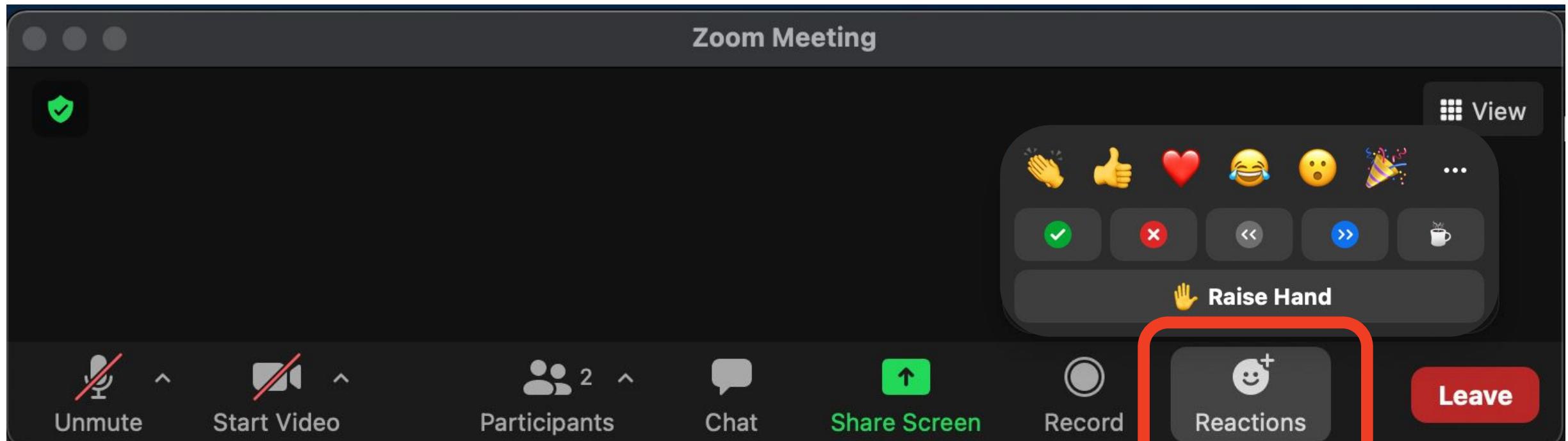
### Errors related to .env

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`



# Let's Practice using Zoom's Reactions



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



# Hello From Kintone

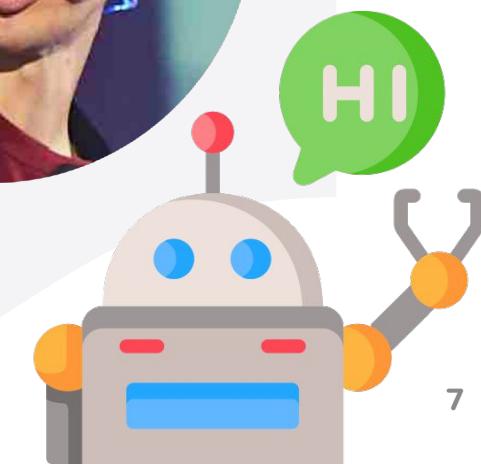
Nim



Genji



Will



# Kintone x Medium Publishing Workflow



# What We Will Make Today

The screenshot shows a Kintone application window with a white background. At the top, there's a navigation bar with icons for back, forward, search, and settings. Below the title, there's a text input field containing "Medium x Kintone". The main area is divided into sections: "Title" (containing "Medium x Kintone") and "Body". The "Body" section contains the following text:

#### A perfect match?

Kintone makes it easy to discuss and work on data all in the same place. And with Kintone's ability to upload and run custom Javascript, you can further customize workflows to make Kintone an all in one command center.

With this customization, you and your editor can write, review, discuss, and when the time is right, \*\*\*directly publish\*\*\* to medium.com!

This customization was written in "TypeScript" and "Vite".

#### So what now?

For extending the app further you can easily refactor with your favorite reactive JS framework, such as "React", "Svelte", or "Vue". Try out these challenges to really 🔒 your coding ability:

- \* Refactor the app to a reactive, stateful framework
- \* Show a spinner while the API call is running
- \* Notify the user when the upload fails, and why
- \* The [Medium API supports image uploading](<https://github.com/medium/medium-api-docs#34-images>) as well. Write a new API call that uploads an image, gets the URL of that image, and then inserts it into the markdown of your post before publishing.
- \* Story successfully published? Try to disable the publish button based on the status of the record!

In the top right corner, there's a sidebar with a comment icon and the placeholder "Write your comment here.". On the far right, there's a sidebar showing a comment from a user named "sean" (@genji) with the timestamp "May 11 10:44 PM". The comment reads: "Published the article! Thanks for checking it 🌟". Below the comment, there are "Like" and "Reply" buttons.



# Workshop Overview

## Project Setup

Project Overview

Install Dependencies

Create a Web Database

## Accounts & Tokens

Create a Medium account

Generate API Token

Get Author ID with the API  
Token

## POST API Build

Format API Data

Create a button on the  
Kintone App

Connect the button

Publish an article from  
Kintone!

# Get Started

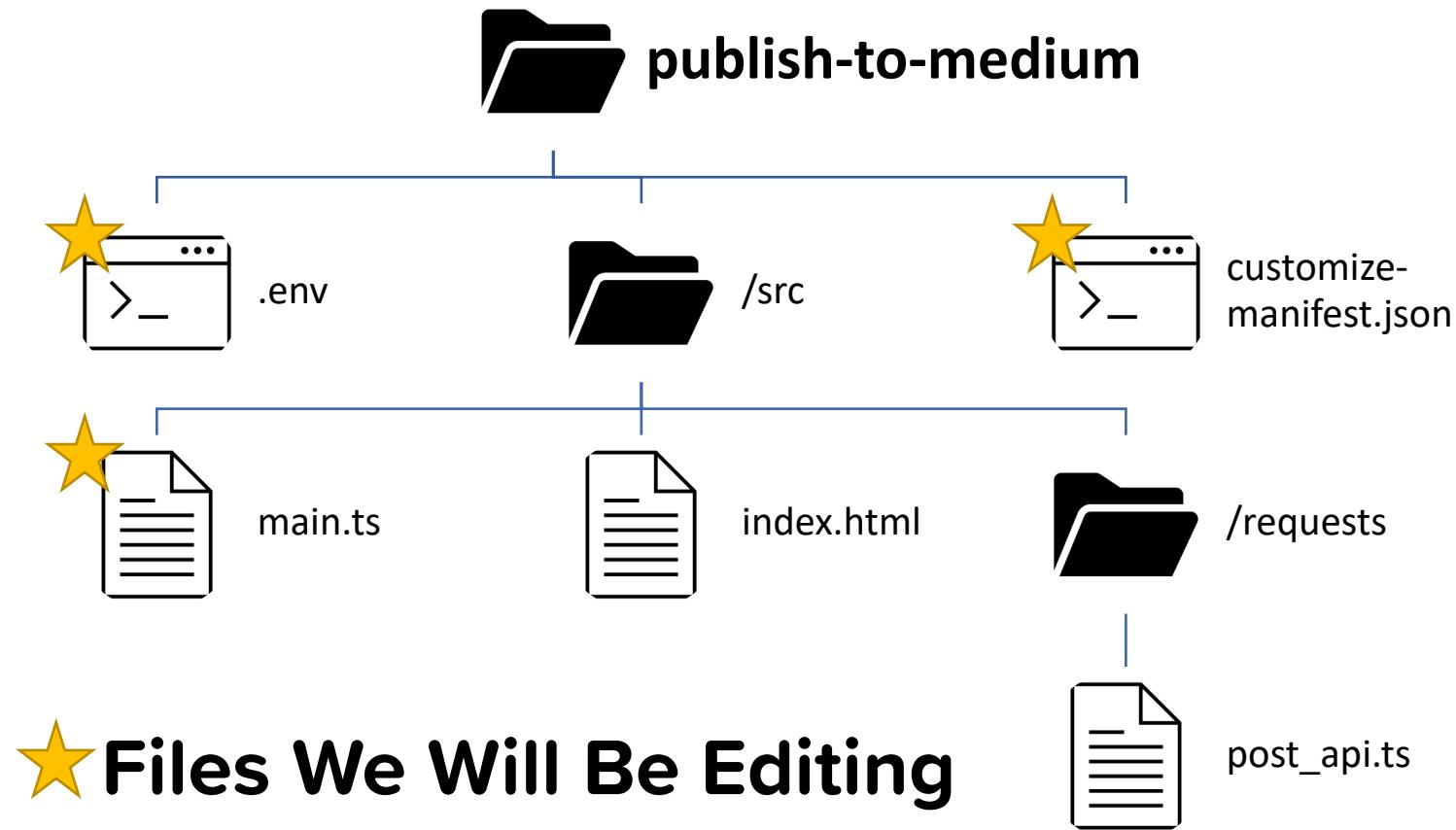
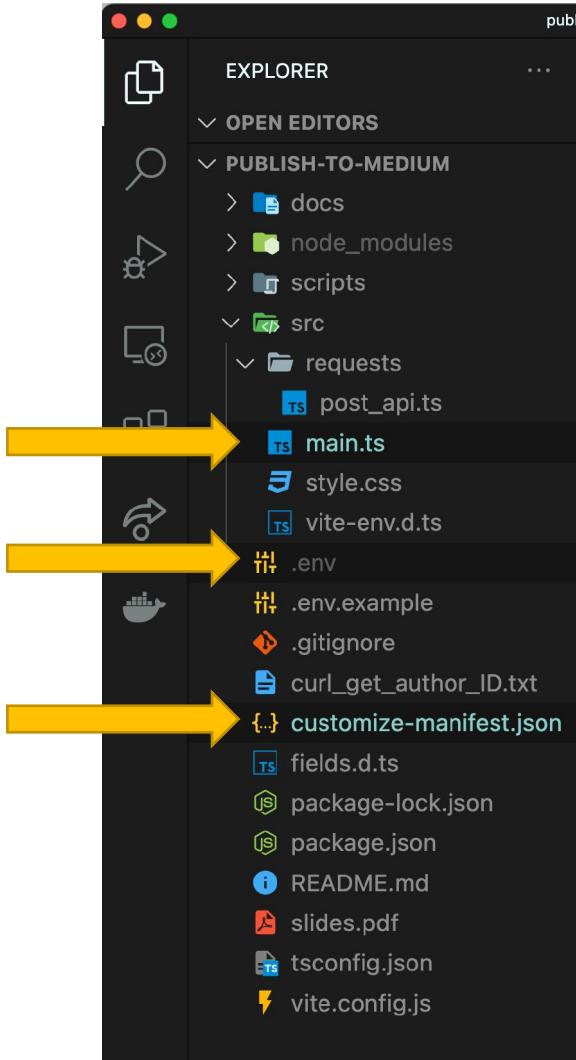
Let's setup our workshop's starting point!

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2. Go inside the folder & install the dependencies!
3. Lastly, install [@kintone/customize-uploader](https://www.npmjs.com/package/@kintone/customize-uploader) globally

Run these commands  
from your terminal

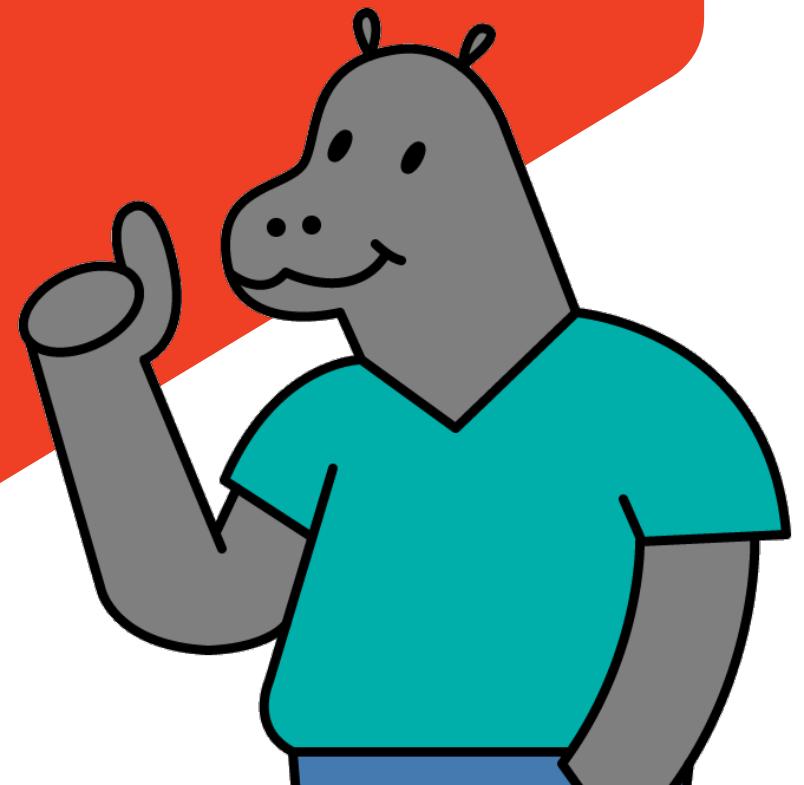
```
cd Downloads
git clone https://github.com/sean-kintone/publish-to-medium
cd publish-to-medium
npm install
npm install -g @kintone/customize-uploader
```

# Overview of the Repo



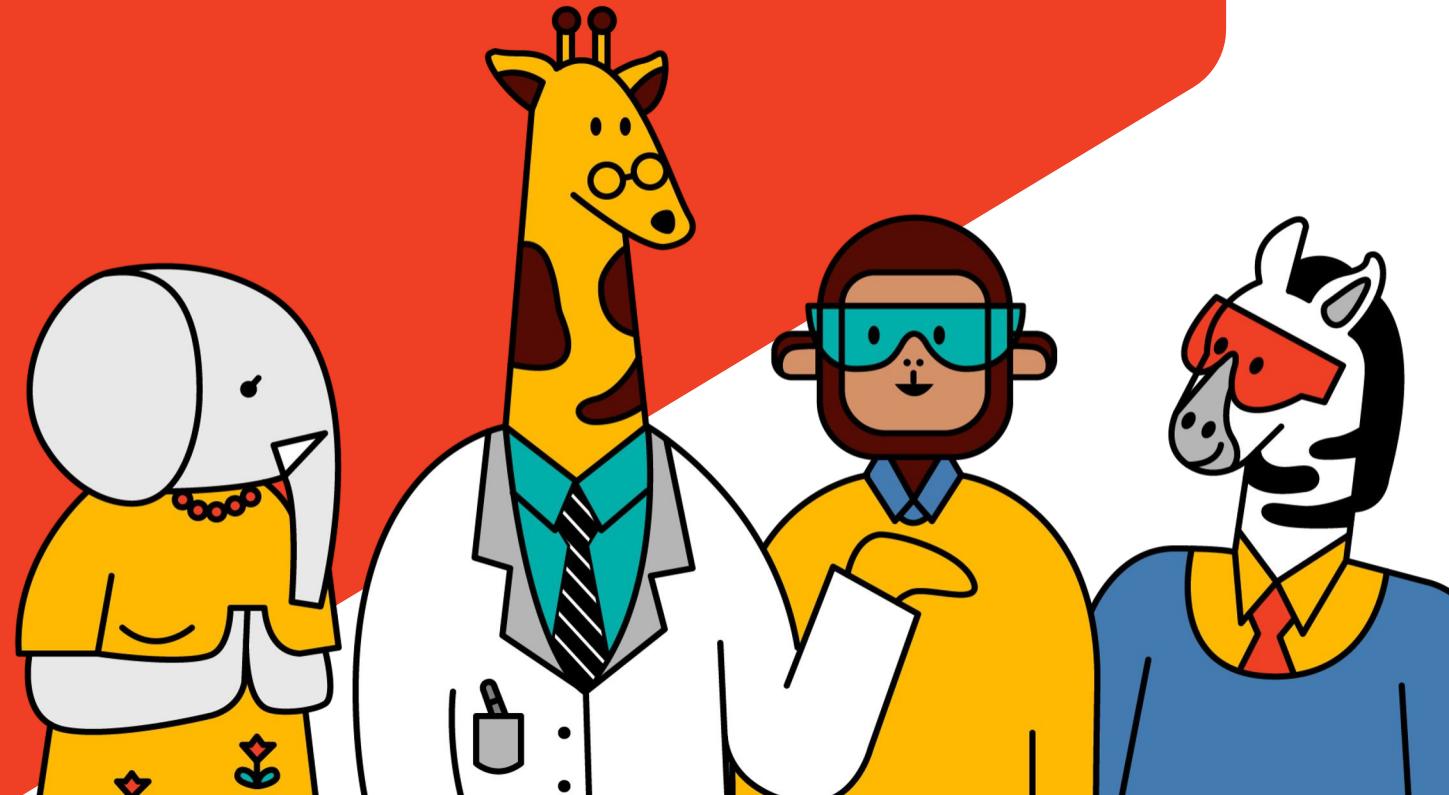
★Files We Will Be Editing

# 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:

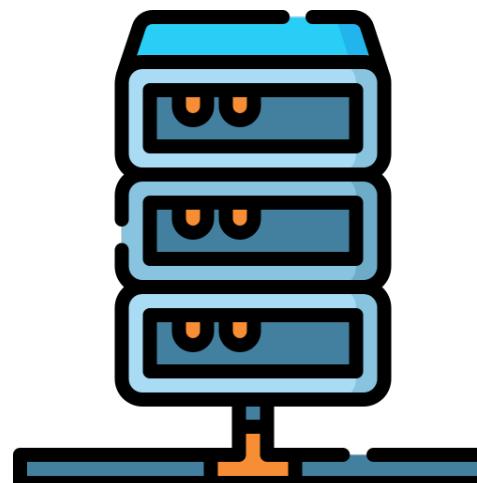
- Announcement:** A green header bar with the word "Sales".
- Customer Database:** Shows three cards: "Customer Database" (Admin:Green), "Sales Leads" (Admin:Green), and "Contact Log" (Admin:Green).
- Dashboard:** Contains two charts: a bar chart for "Sales Leads: Monthly Expected Sales (per priority)" and a pie chart for "Total(Amount)".
- Threads:** A list of threads: "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 ...

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

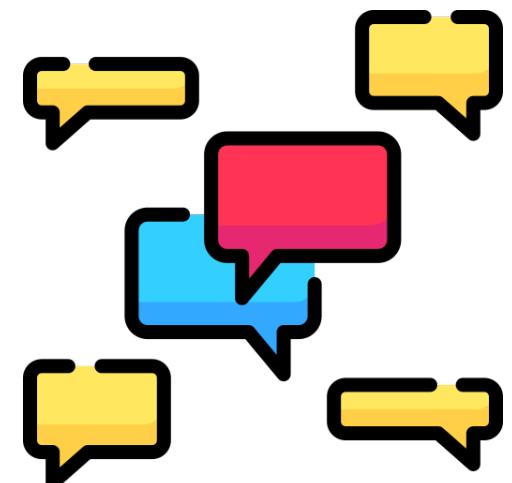
# Where Kintone is Special!



kintone



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



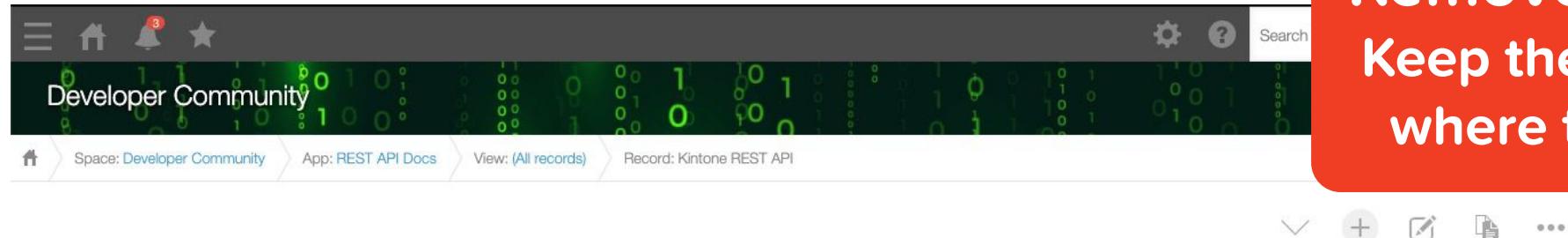
# Missing - Unified Communication

## Data Silos

Information is not being  
shared effectively

**Scattered Communication**  
Unclear where the  
conversation is happening

# What is Possible?



Where  
Data  
Lives

EN Section: API Info  
EN API Group: Kintone REST API  
EN Method: GET

EN API Name: Get API Schema  
EN URL (Endpoint): /k/v1/apis/\*.json  
EN Article Link: <https://developer.kintone.io/hc/en-us/articles/115006107628>

Fix History

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

Write your comment here.

3: Clare - Support Aug 27, 2020 1:29 AM  
@Sharon - Developer @Genji  
Done!

Like Reply

2: Sharon - Developer Aug 27, 2020 1:28 AM  
@Genji  
Oh, shoot, thanks for catching my mistake!

@Clare - Support  
Please fix the Fixed the GET API List API link

Like Reply

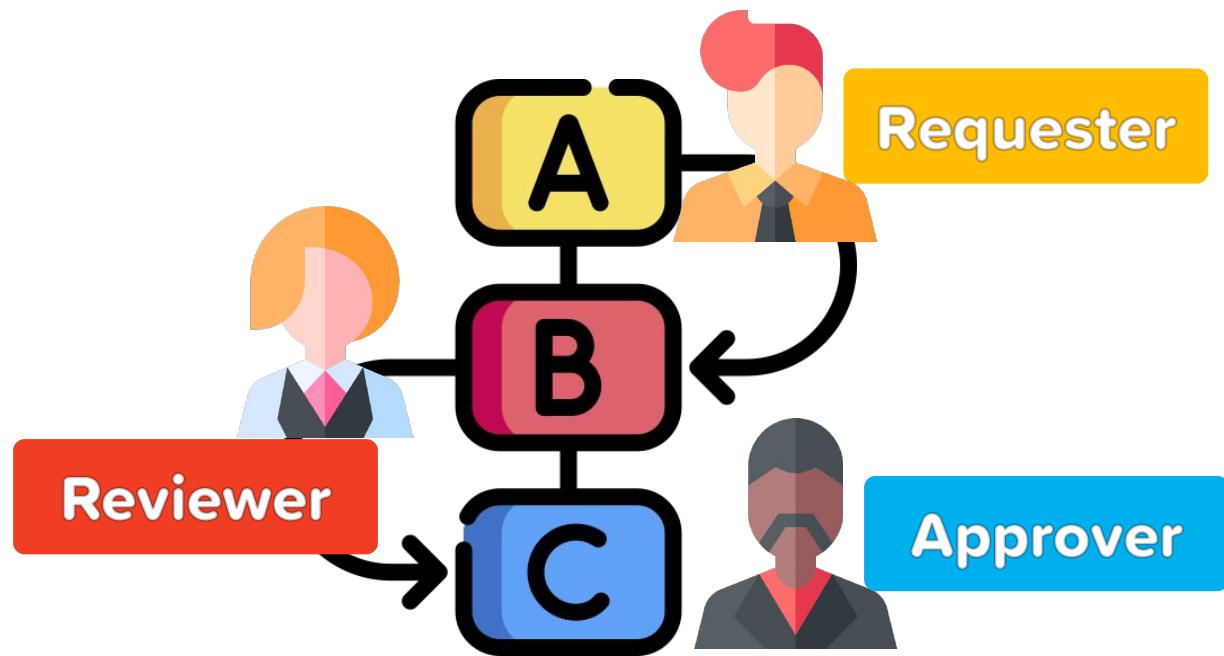
1: Genji Aug 27, 2020 1:27 AM  
@Clare - Support Please take a look at this document.

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!

tickets-115435658161

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

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

Like Reply

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

At the bottom of the table, it says "Records 1 - 5 of 5".

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

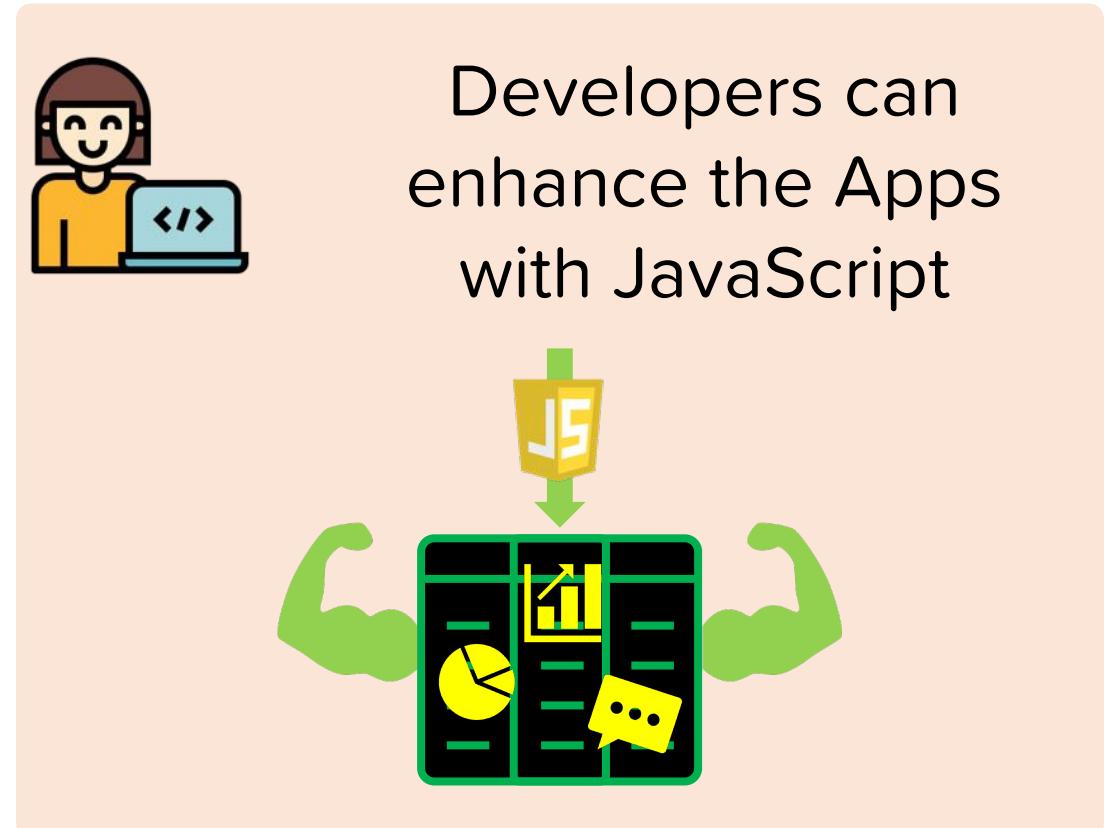
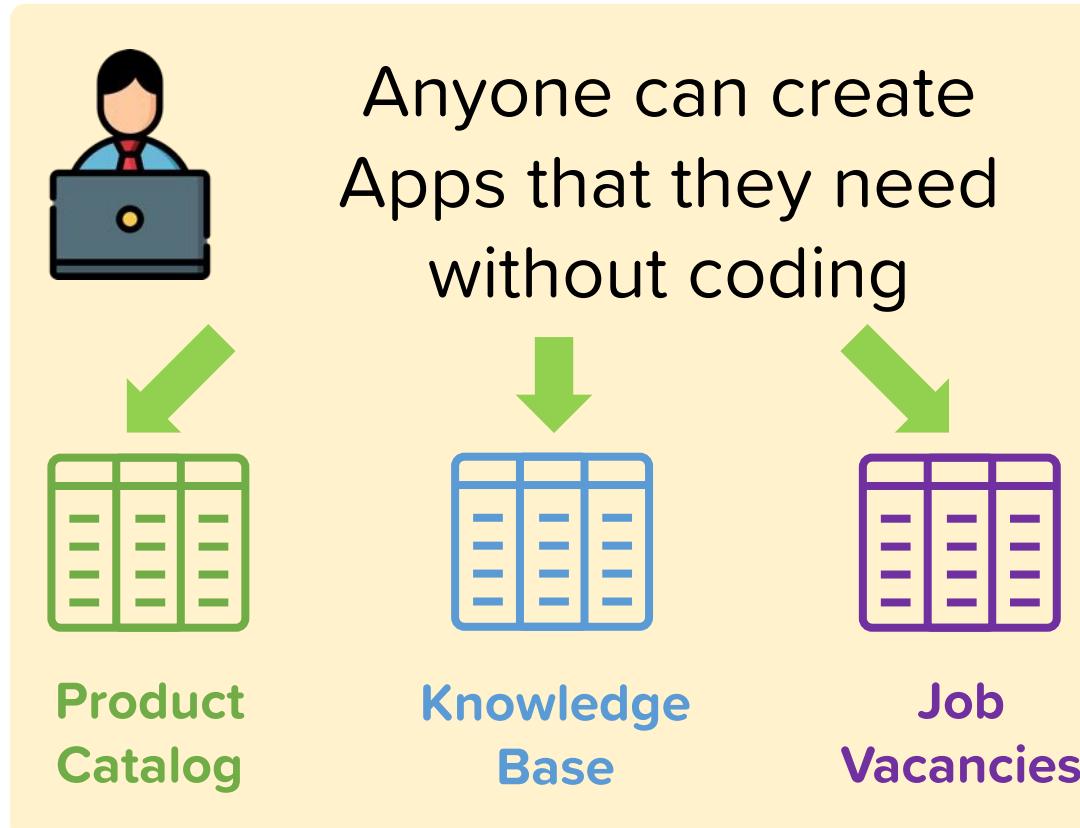
Label Text  
Rich text Text area  
Number Calculated  
Radio button Check box  
Multi-choice Drop-down  
Date Time  
Date and time Attachment  
Link User selection  
Department selection Group selection  
Related records Lookup  
Blank space Border  
Field group  
Record number Created by  
Created datetime Updated by  
Updated datetime

**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!

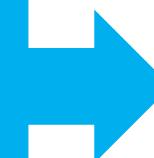
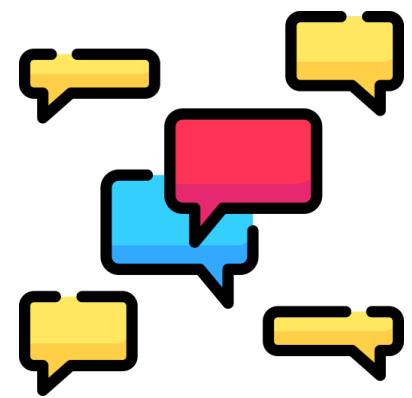
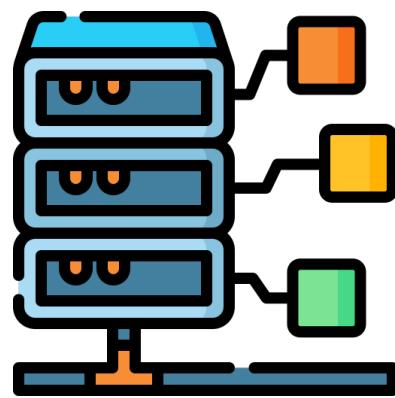
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



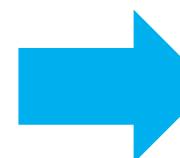
# Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

**Data + Communication**



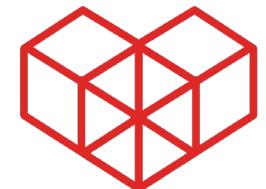
**Insight**



**Action**



# How Developers Contribute

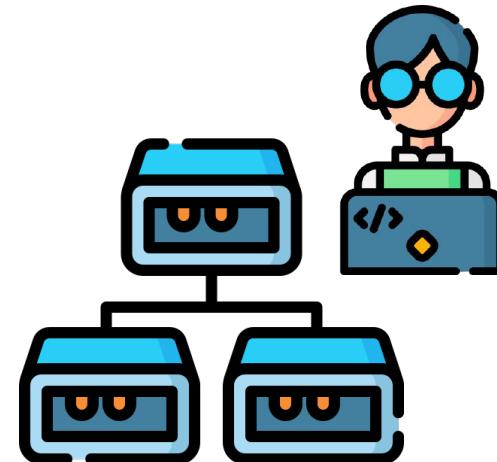


**kintone**  
developer program

# How Developers Contribute

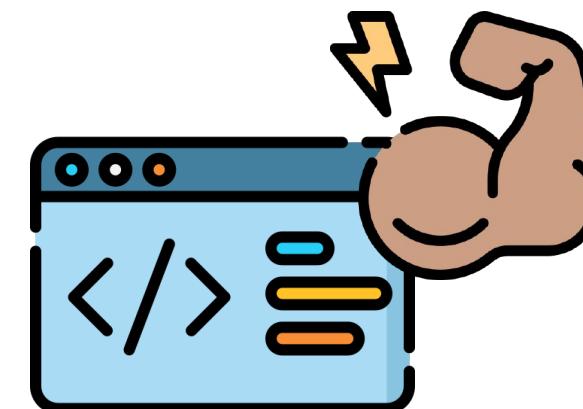
## Command Center

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



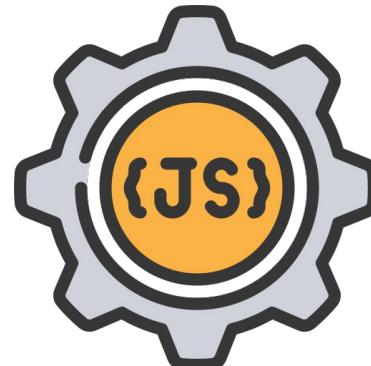
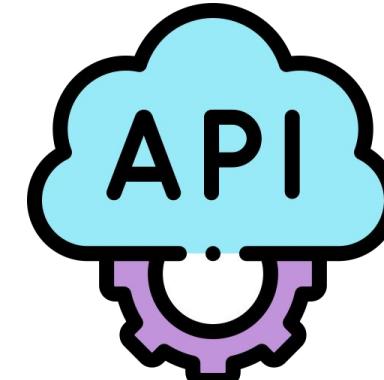
## Enhancements

- Develop JavaScript customizations
- Build & share extensions



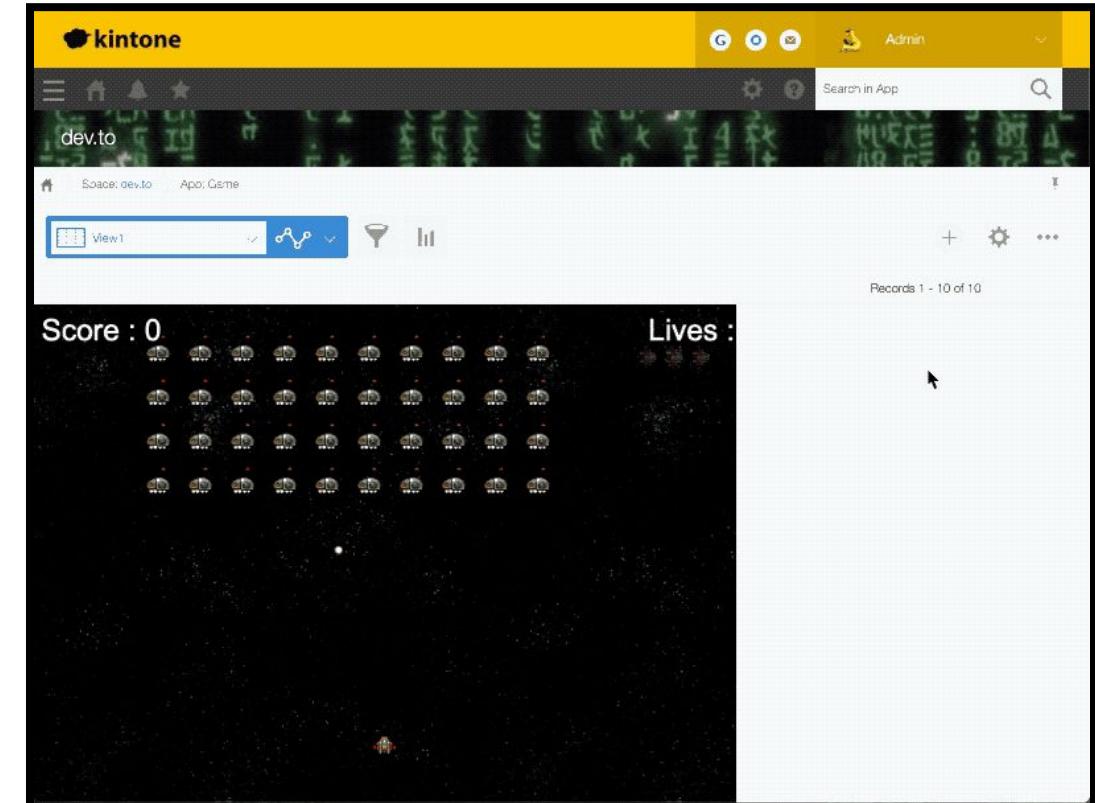
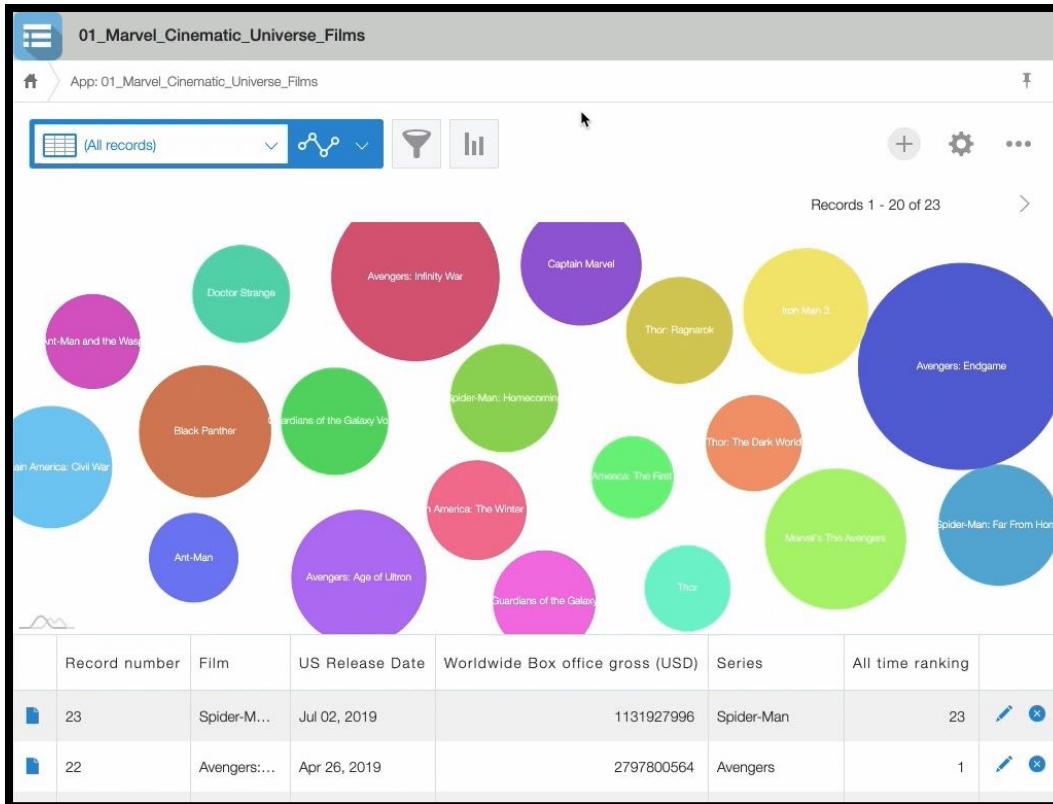
# Tools Inside Kintone

- 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!

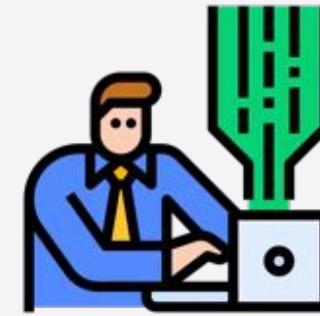
# Kintone For Creating Revenue



Create & sell  
Kintone  
extensions



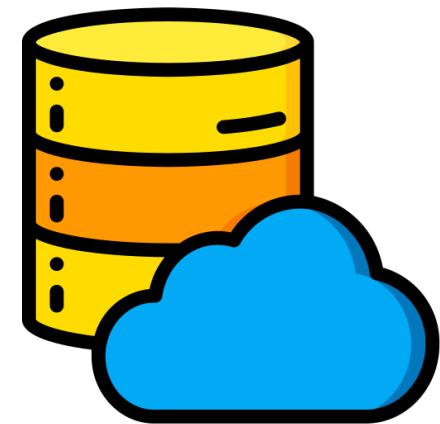
Consult with firms  
on achieving  
business goals



Develop Kintone  
customizations for  
customers

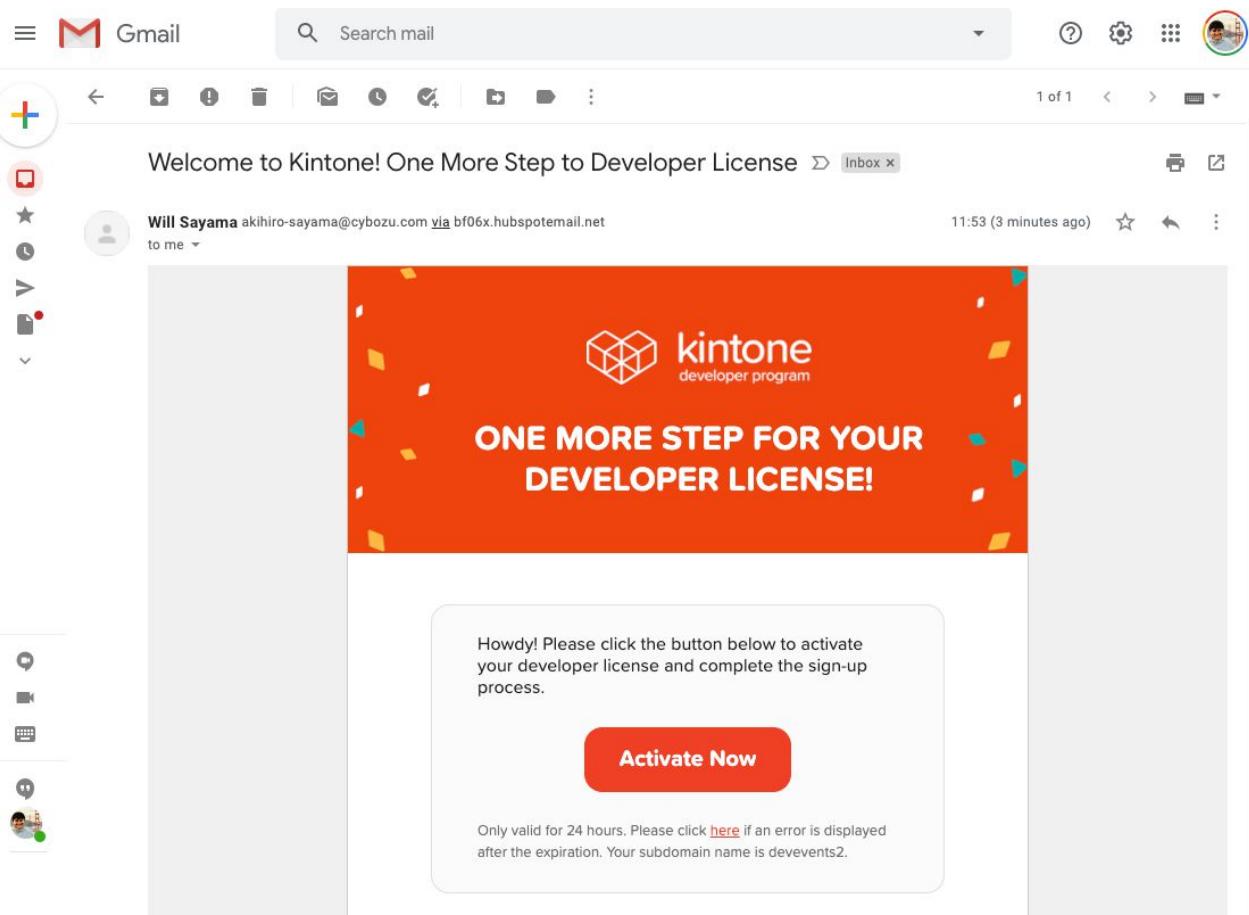
# Let's Create a Kintone Database App

Step-By-Step Guide

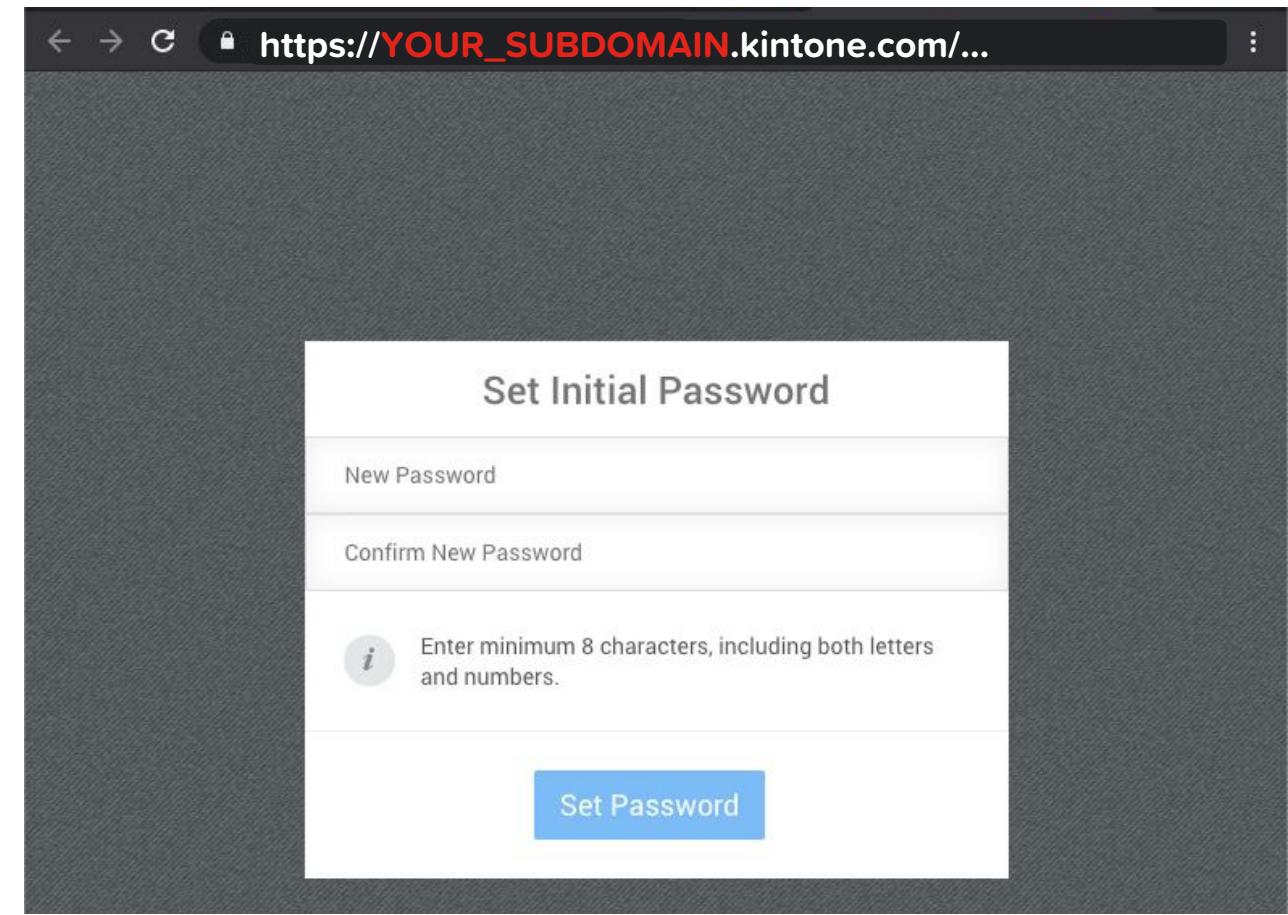


# Check Your Email

Welcome to Kintone! One More Step To...



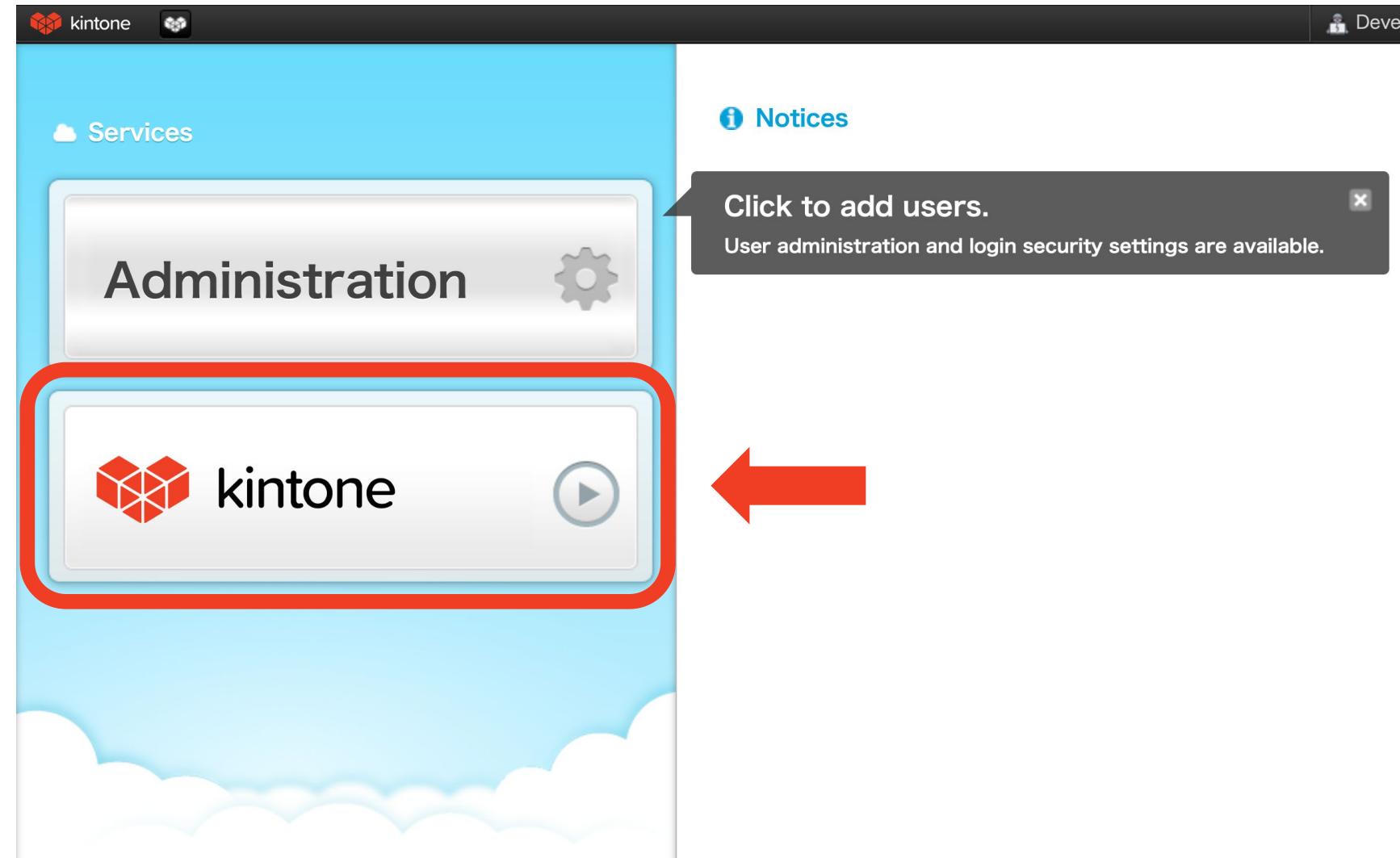
**YOUR\_SUBDOMAIN.kintone.com**



# Let's Log into Kintone

Click on Kintone button on the Left side

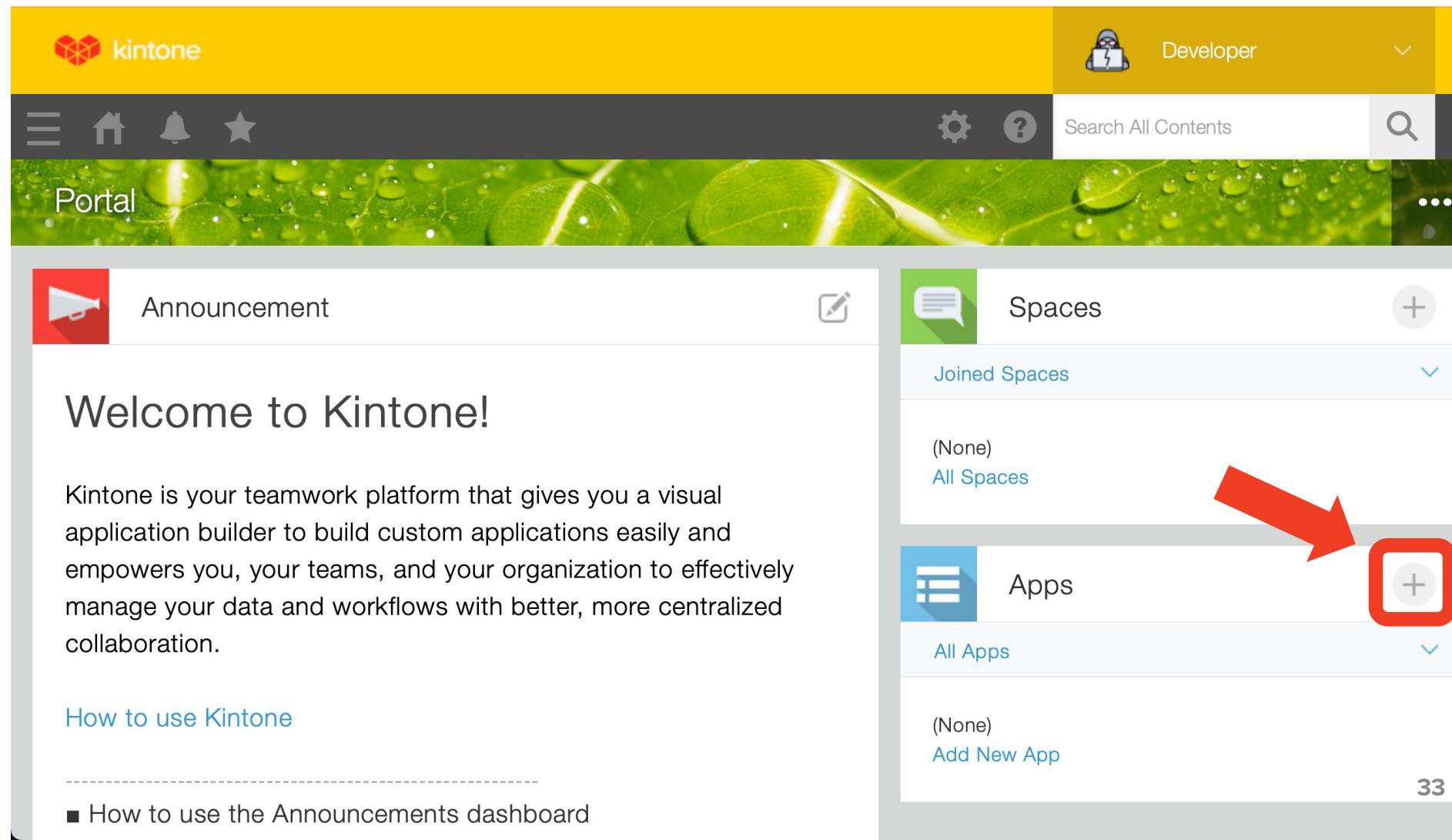
The email has the initial registration link & subdomain



# Create a Kintone Database App

From the Portal screen

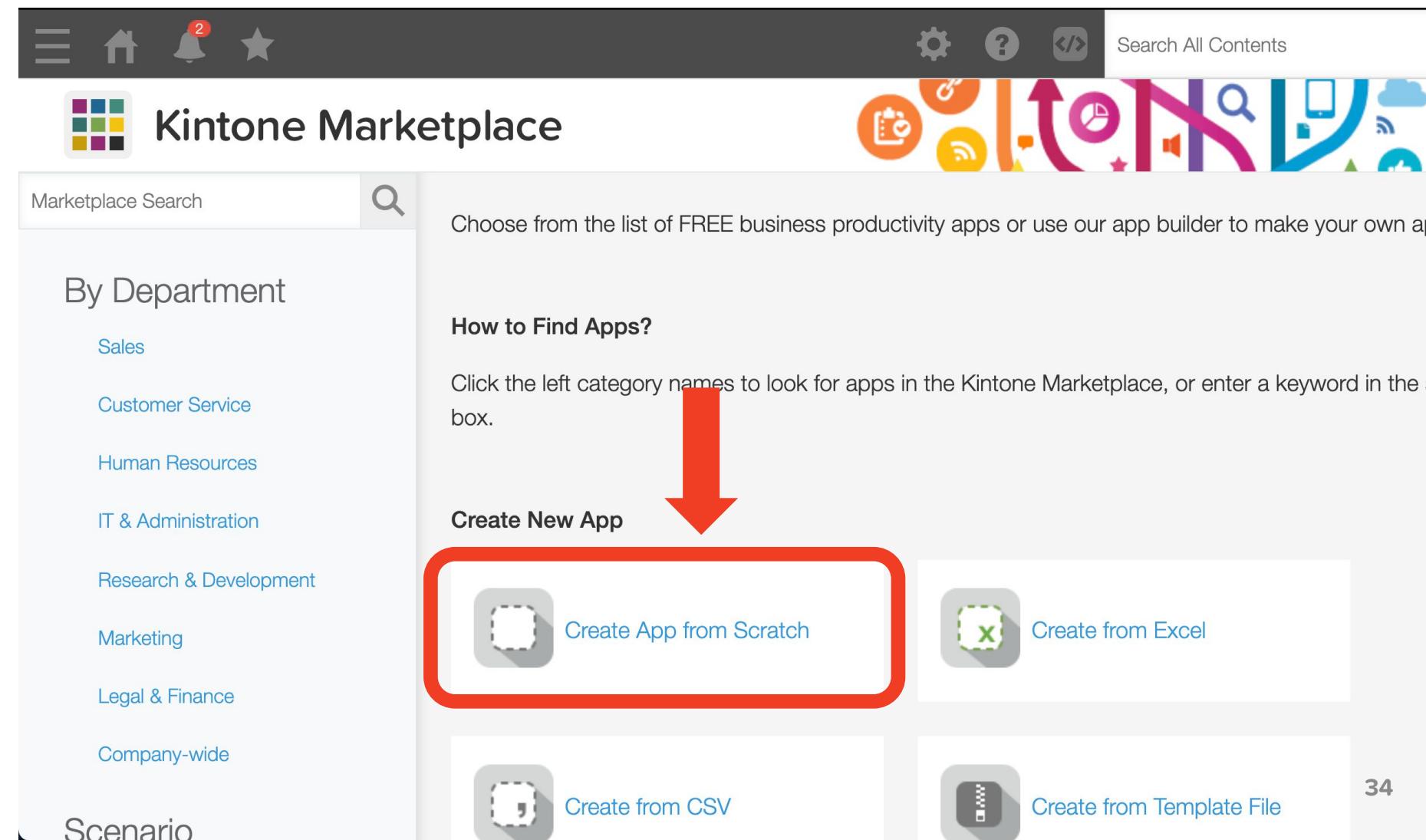
Click the **[+]** button on the Right side



# Create App from Scratch

On Kintone  
Marketplace...

Click on  
**Create App from  
Scratch**



# Name the App

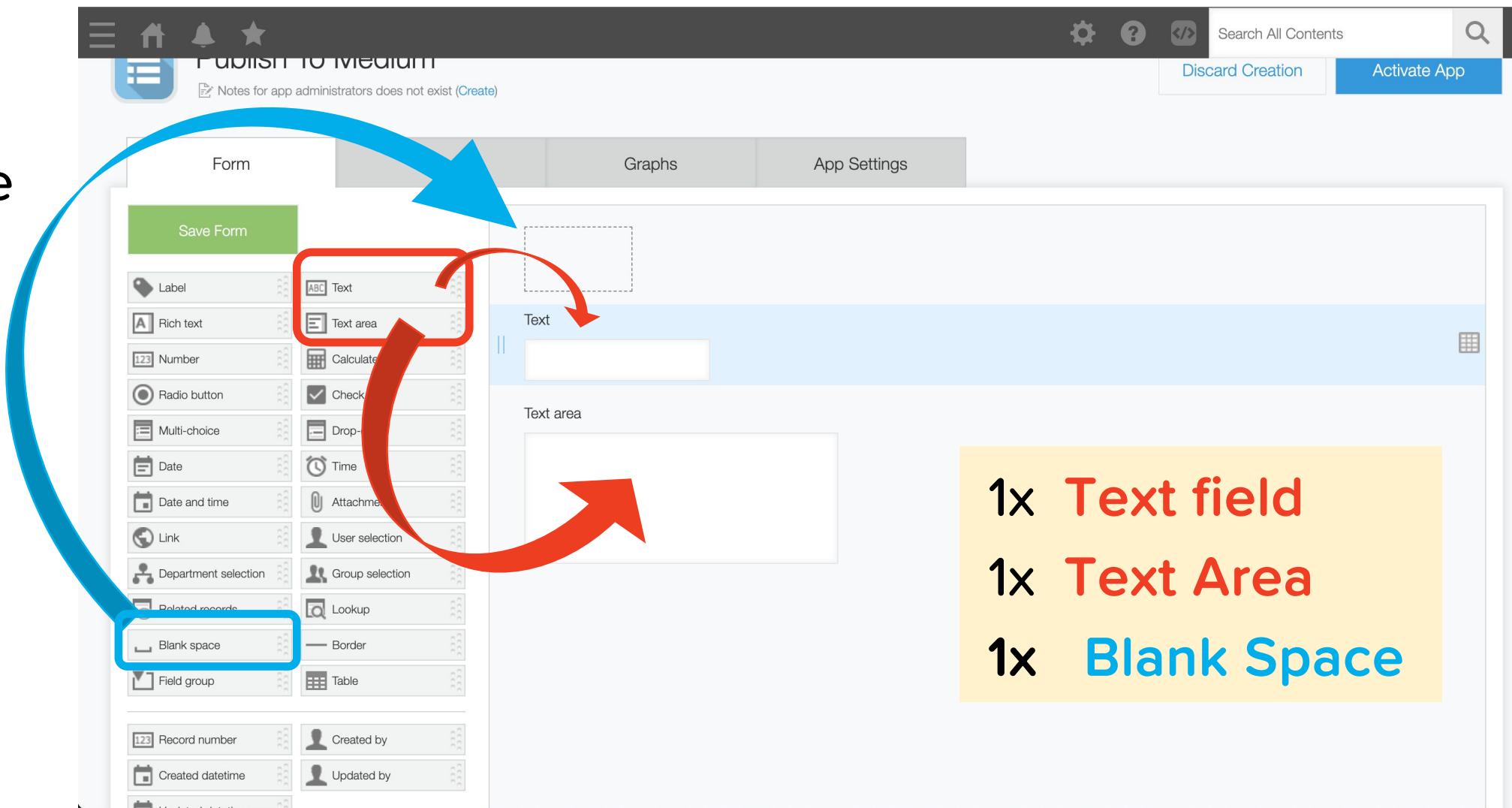
Replace the  
"New App" with  
your App's Title

We will input  
"Publish To  
Medium"

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, the breadcrumb navigation shows 'Kintone Marketplace > New App > Settings'. The main title 'New App' is displayed in a blue box. A red arrow points to a note below the title: 'Notes for app administrators: App does not exist (Create)'. The interface includes 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 downwards and the text 'Drag and drop fields here.'

# Building the Publish To Medium App

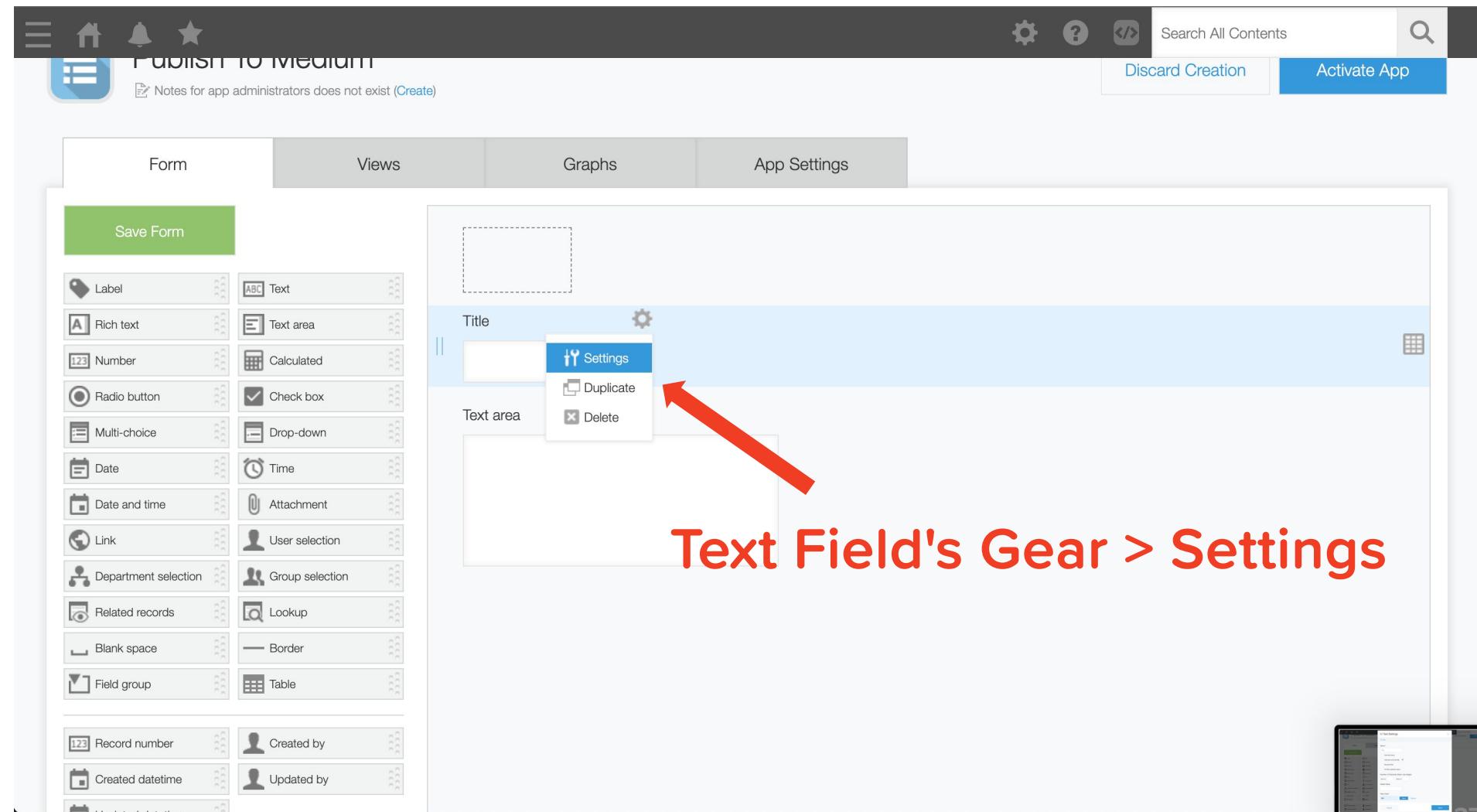
Drag & drop  
following  
fields into the  
middle area



# Configure Fields

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

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

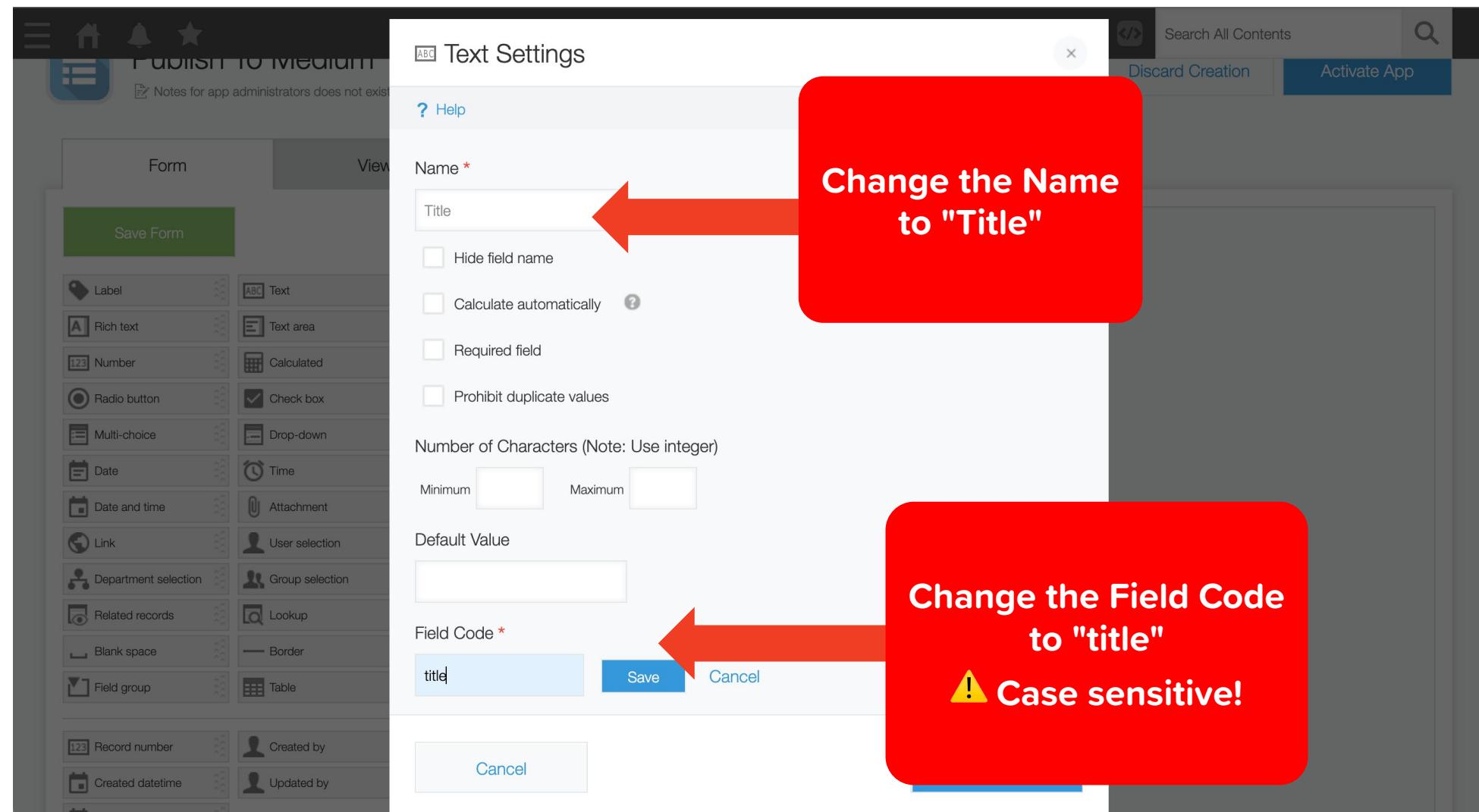


Text Field's Gear > Settings

# Inside the Text Field Settings

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

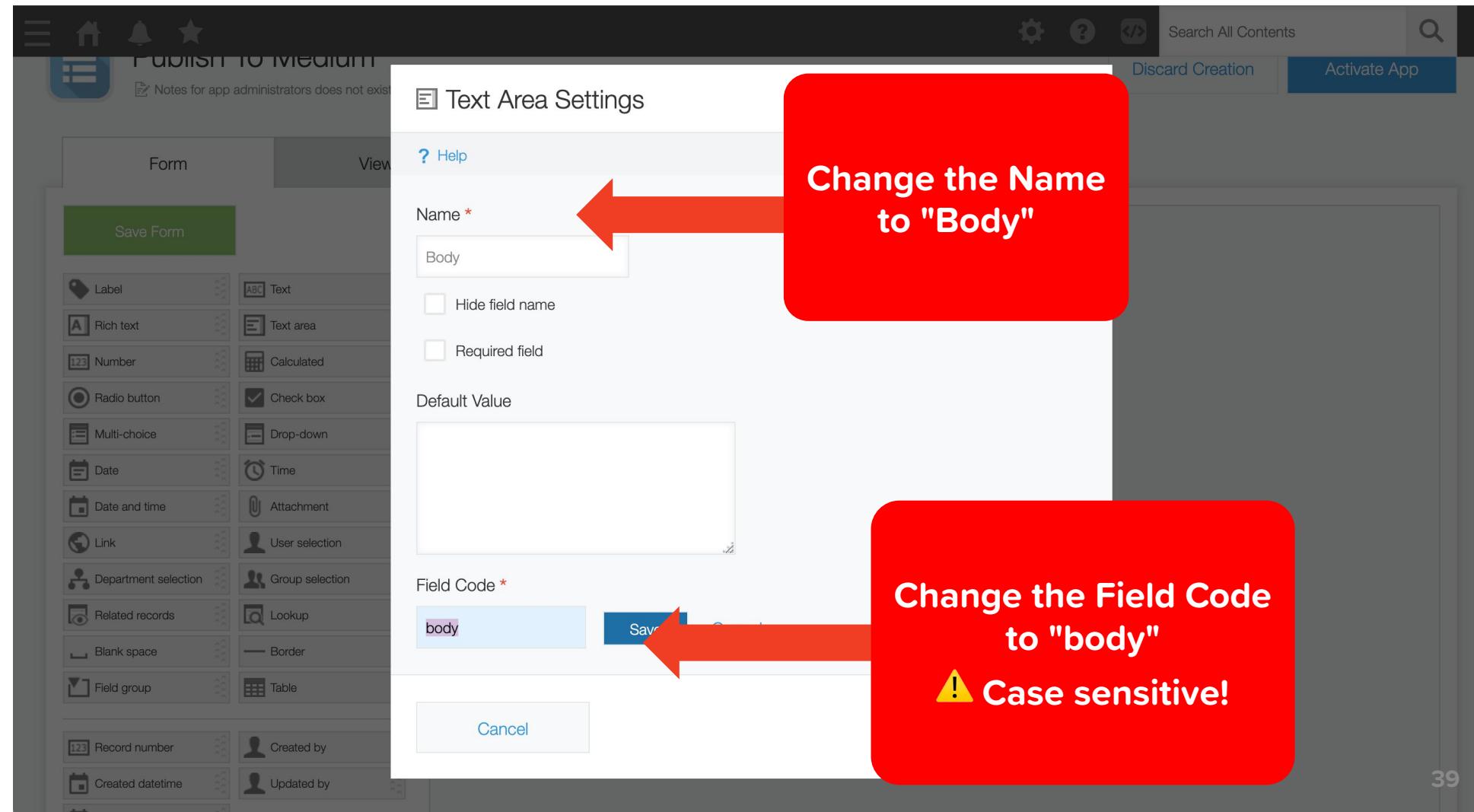
Edit the **Name** & **Field Code**



# Inside the Text Area Field Settings

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

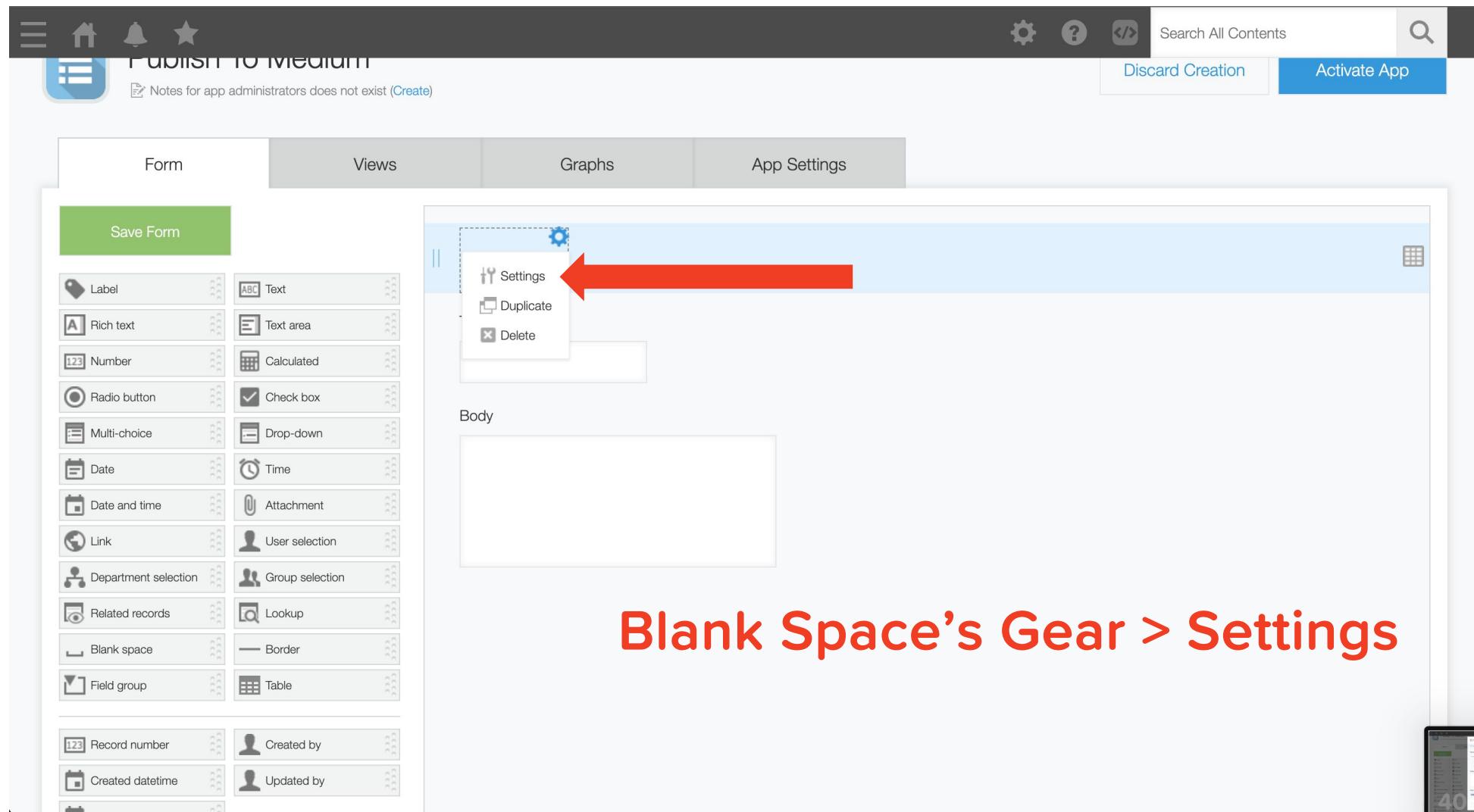
Edit the **Name** & **Field Code**



# Configure Fields

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

Edit the **Element ID**

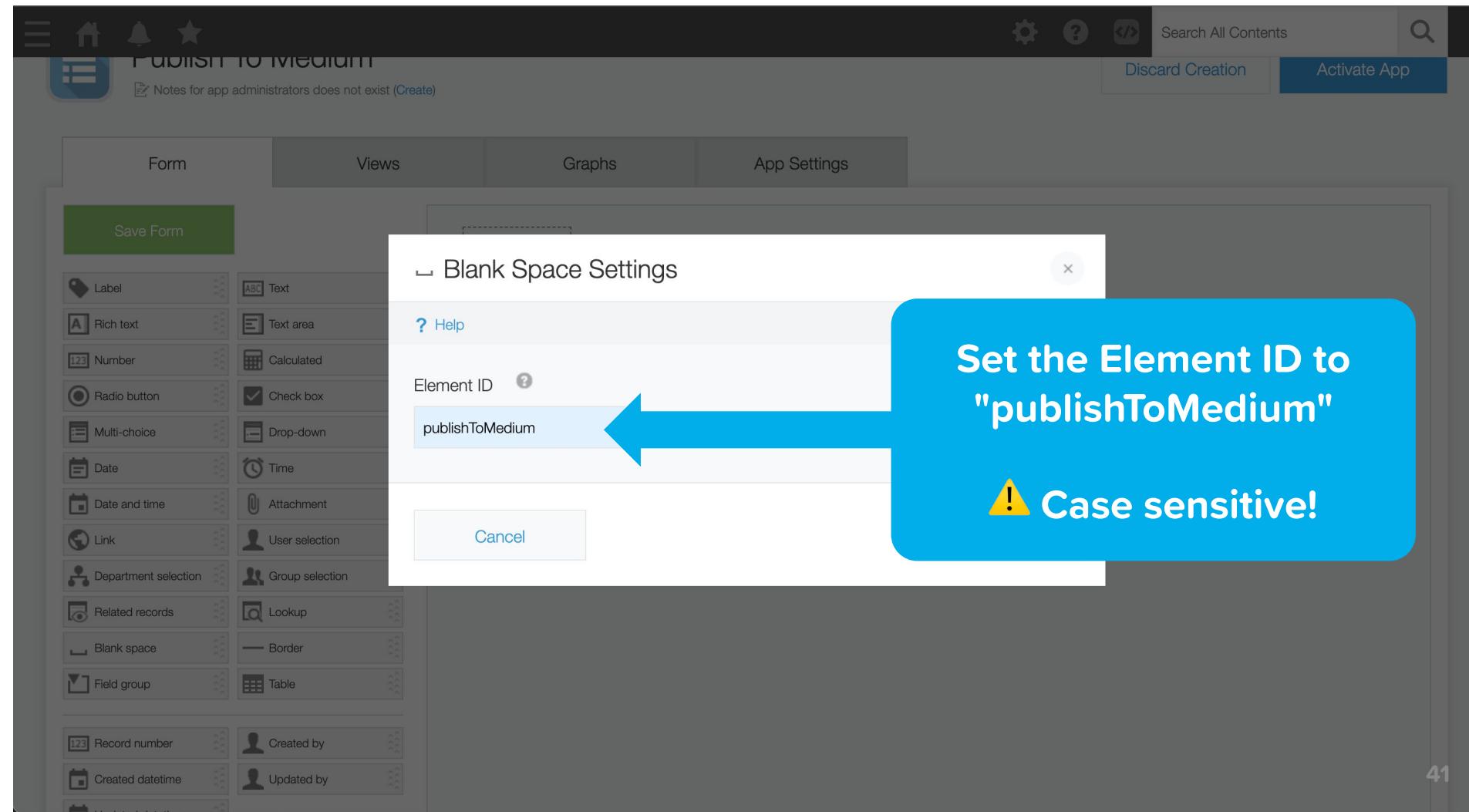


Blank Space's Gear > Settings

# Inside the Blank Space Settings

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

Edit the **Element ID**



# Does Your App Look Like This?

We changed...

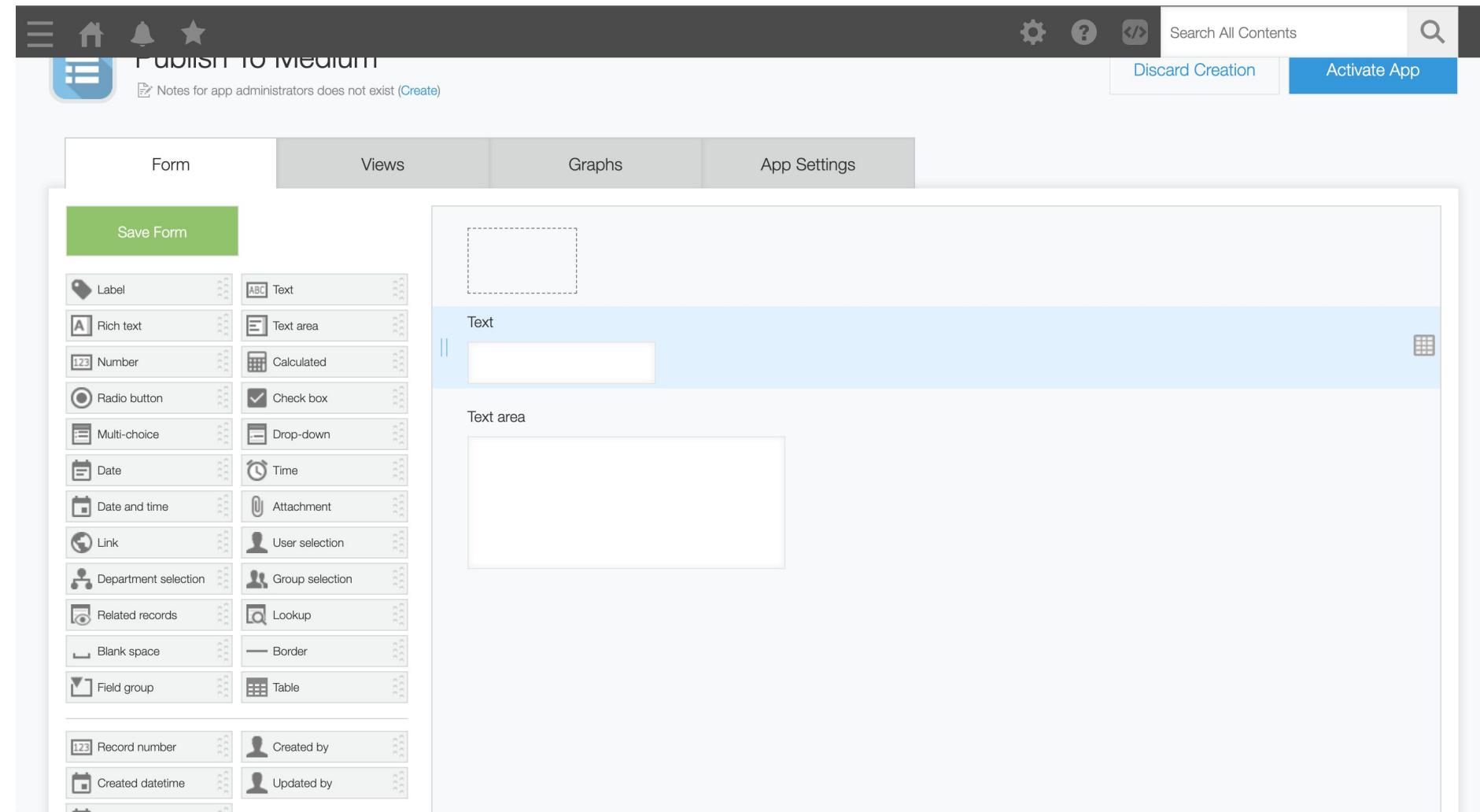
Title

1x Text Field

1x Text Area Field

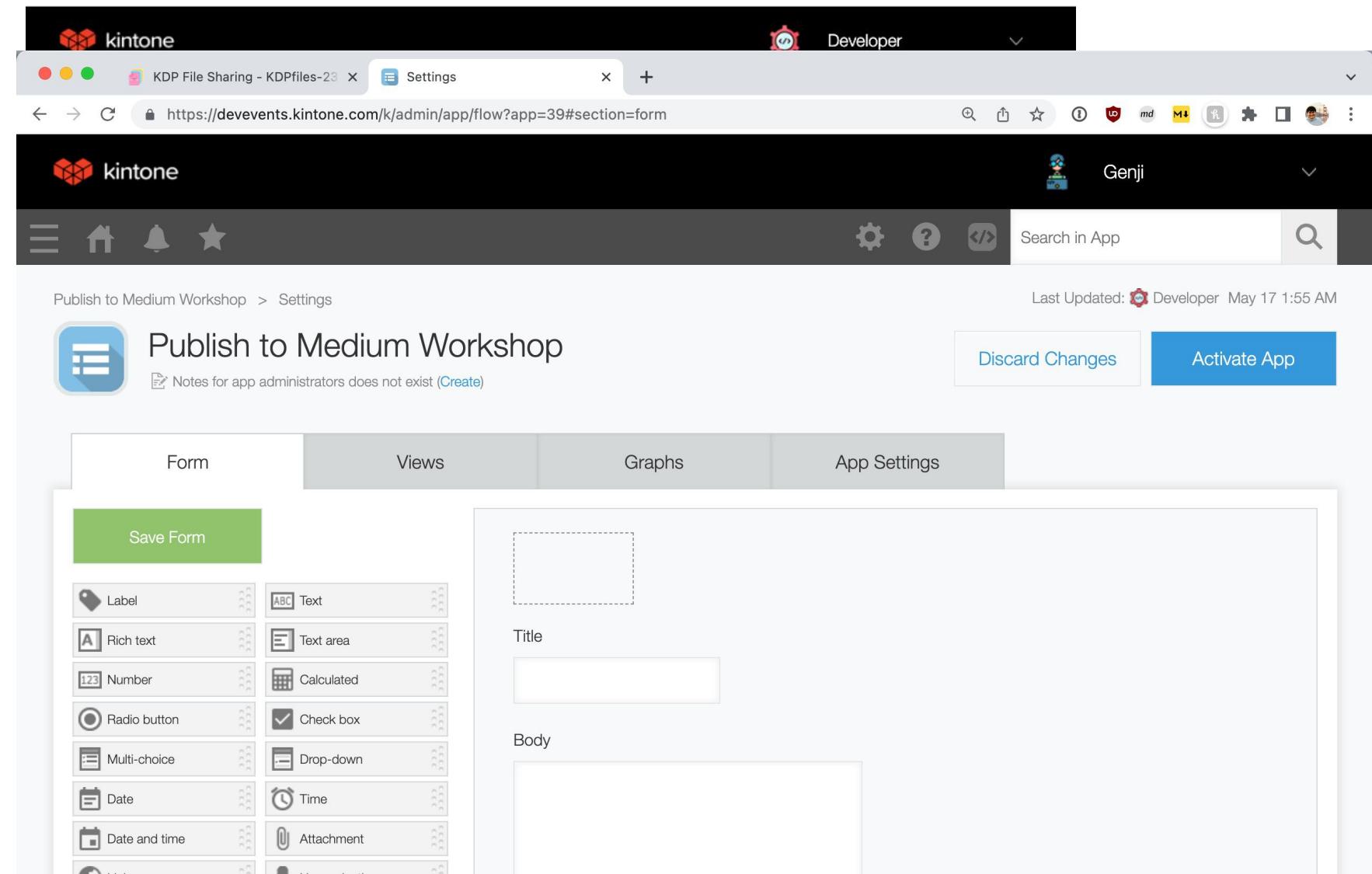
1x Blank Space

Set the fields'  
**Names**  
and **Field Codes**



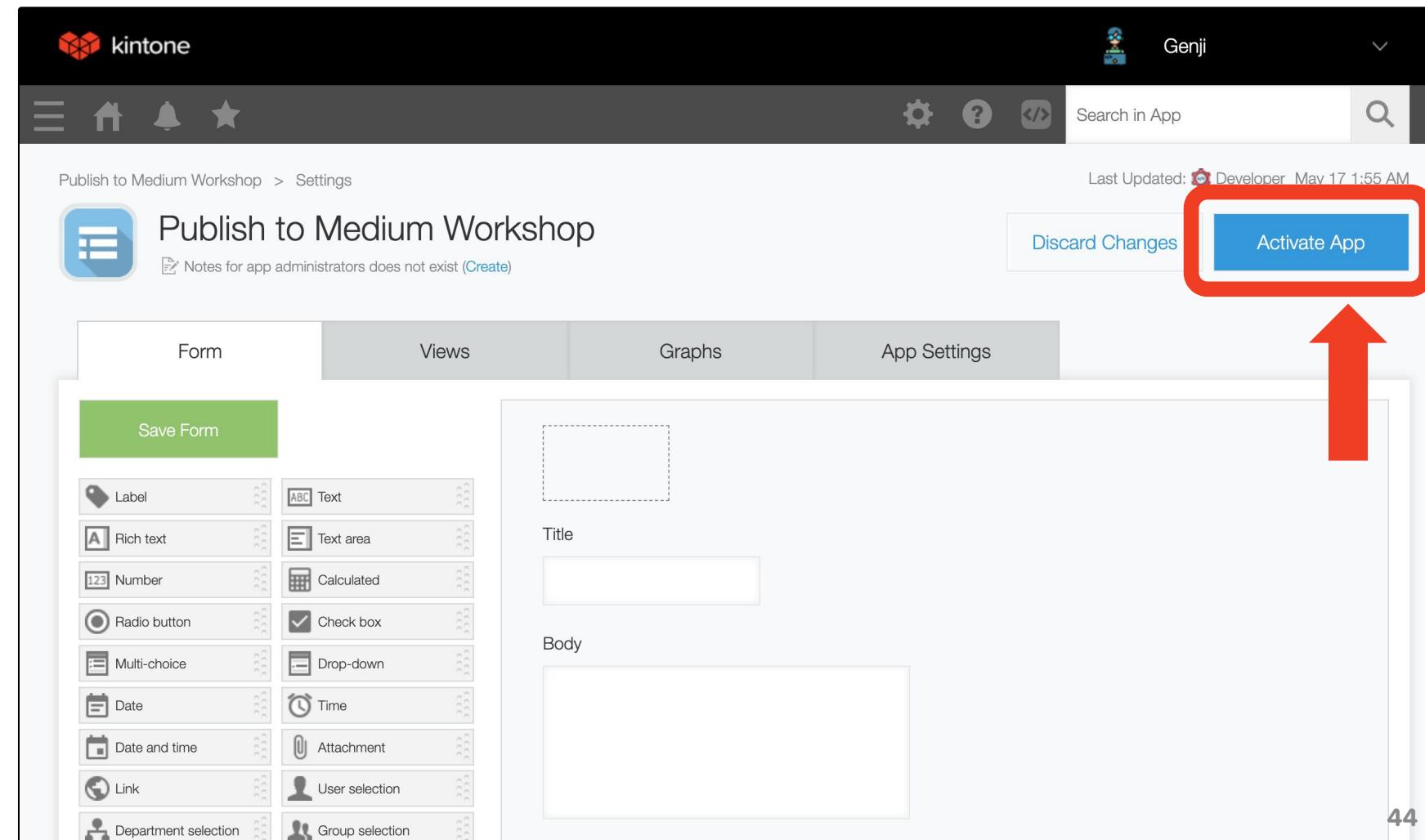
# Activate the Kintone Database App

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



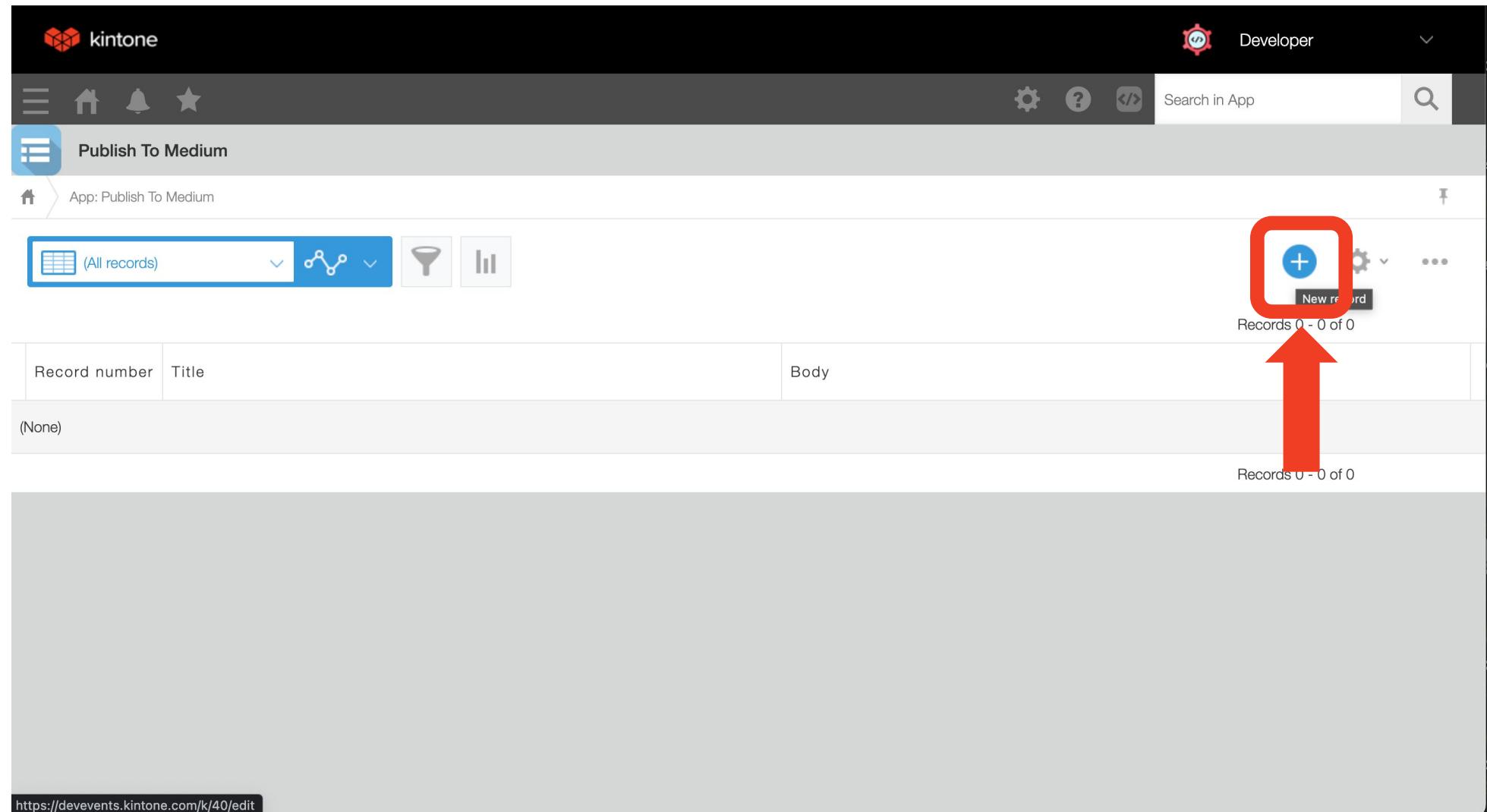
# Activate the Kintone Database App

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



# Create a Record

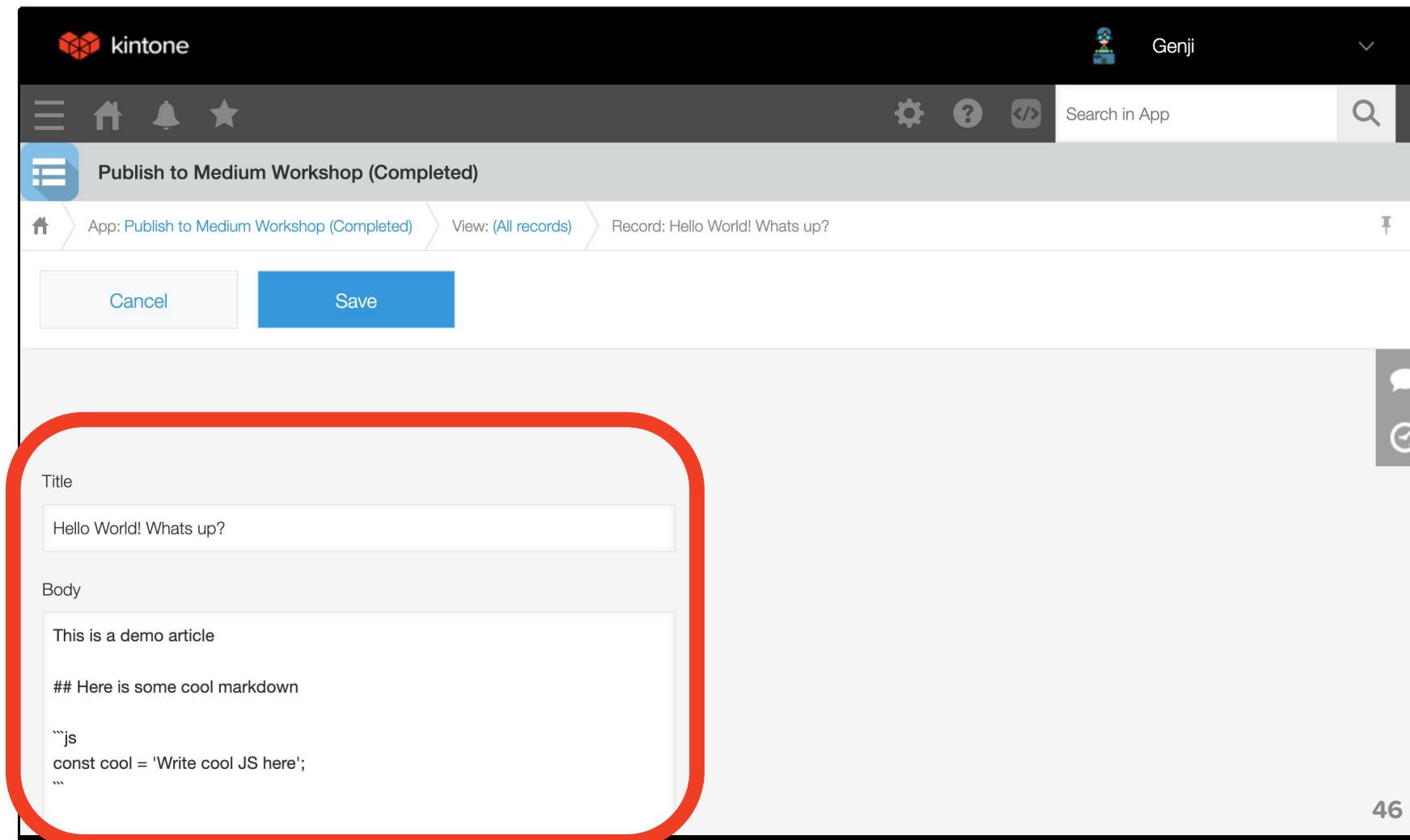
Click the  
[+] button  
on the  
Right side to  
create a record



# Save a Record

Add a title and text using markdown!

Then click the **Save button**



# Connect Kintone to the Project

1. Input Kintone Login Credentials
2. Update App ID in `customize-manifest.json`
3. Generate Medium API Token
4. Get the Medium Author ID



# Go inside the `.env.example` file

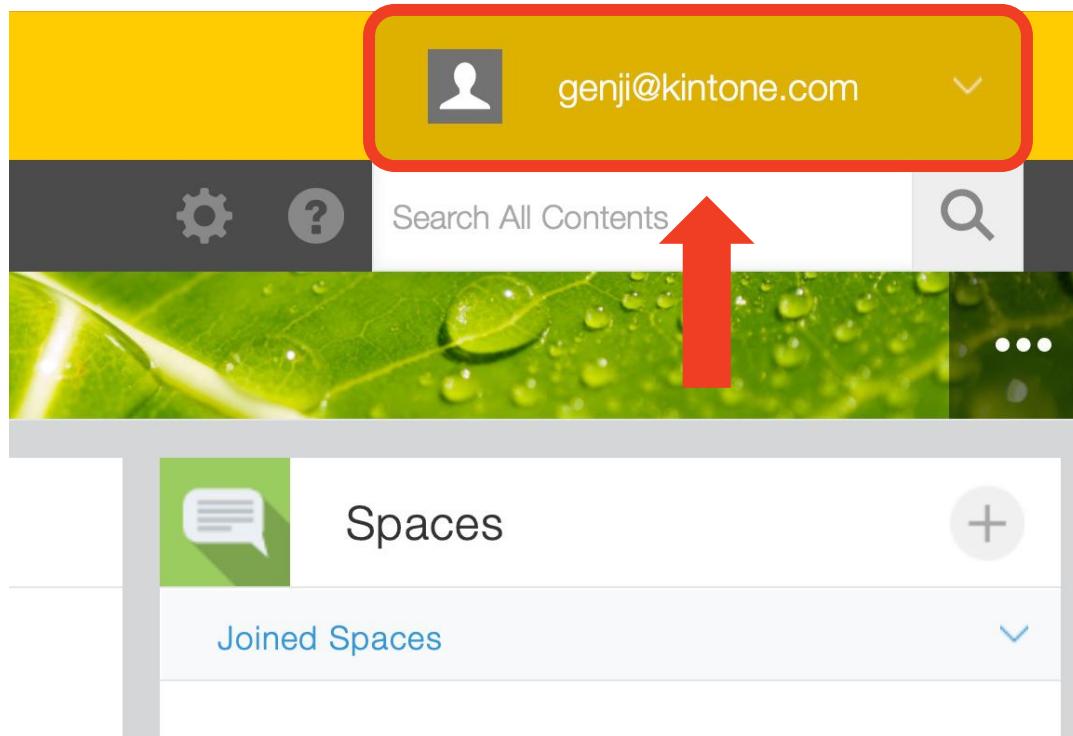
- **.env.example** file is used to verify that `.env` file is correctly configured
- **Duplicate** this file & name it "`.env`"

```
KINTONE_BASE_URL=
KINTONE_USERNAME=
KINTONE_PASSWORD=
VITE_AUTHOR_ID=
VITE_API_TOKEN=
```

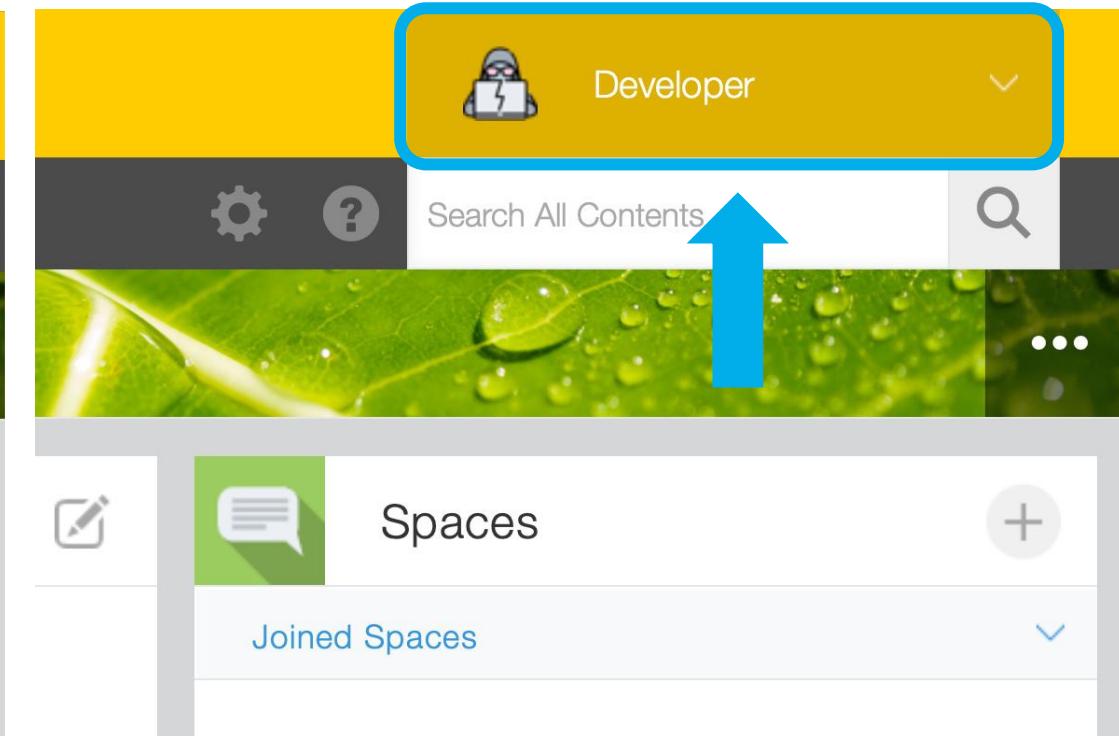
# Example .env file

```
KINTONE_BASE_URL="https://example.kintone.com"  
KINTONE_USERNAME="example@gmail.com"  
KINTONE_PASSWORD="ILoveKintone!"  
VITE_AUTHOR_ID="12345abcde67890"  
VITE_API_TOKEN="09876edcba54321"
```

# Where to get the Kintone Username?



**Default: Email address**

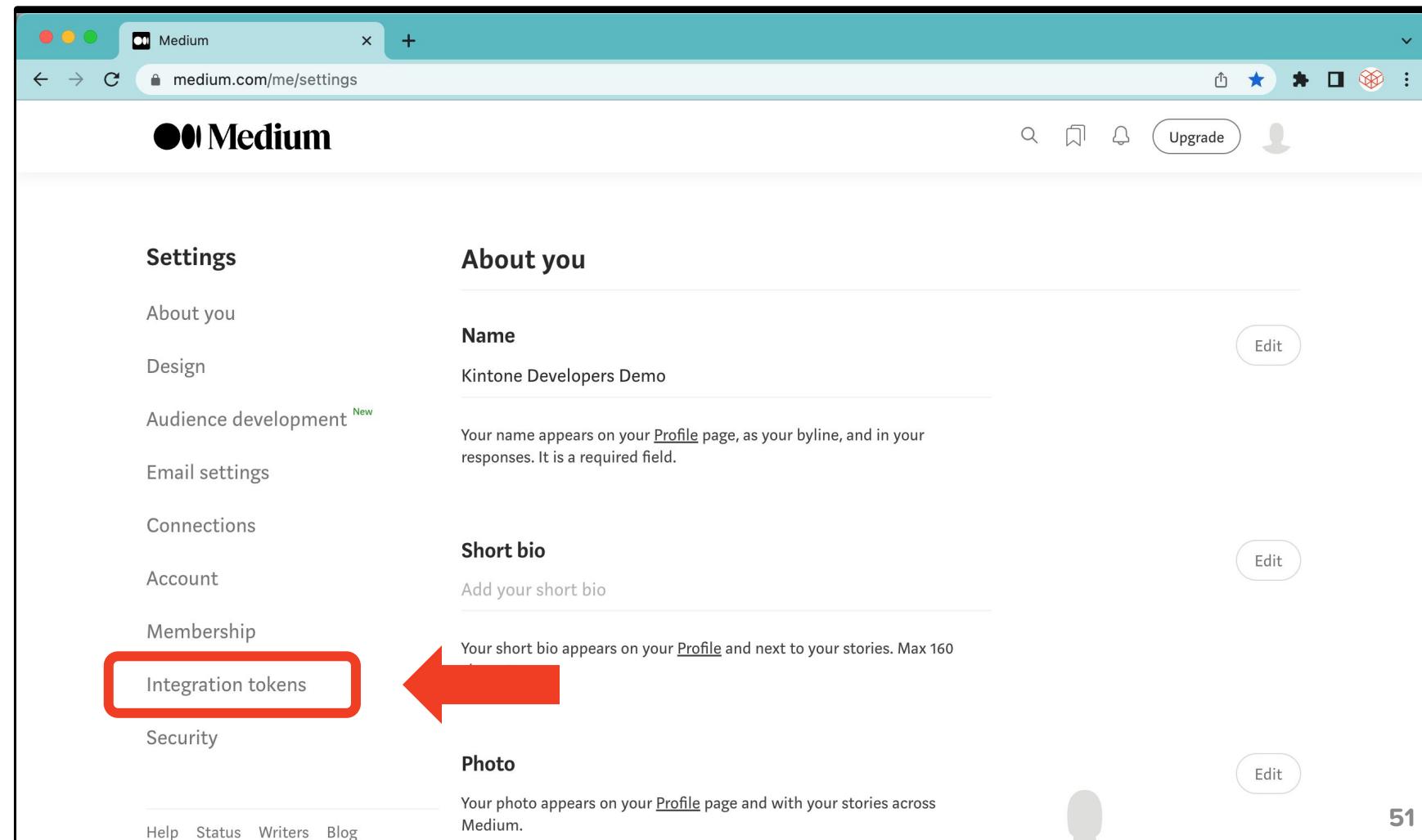


**If modified: Display Name**

# Medium's API Token?

Go to Medium's Account Settings Page:  
[medium.com/me/settings](https://medium.com/me/settings)

Click on integration tokens



# Medium's API Token?

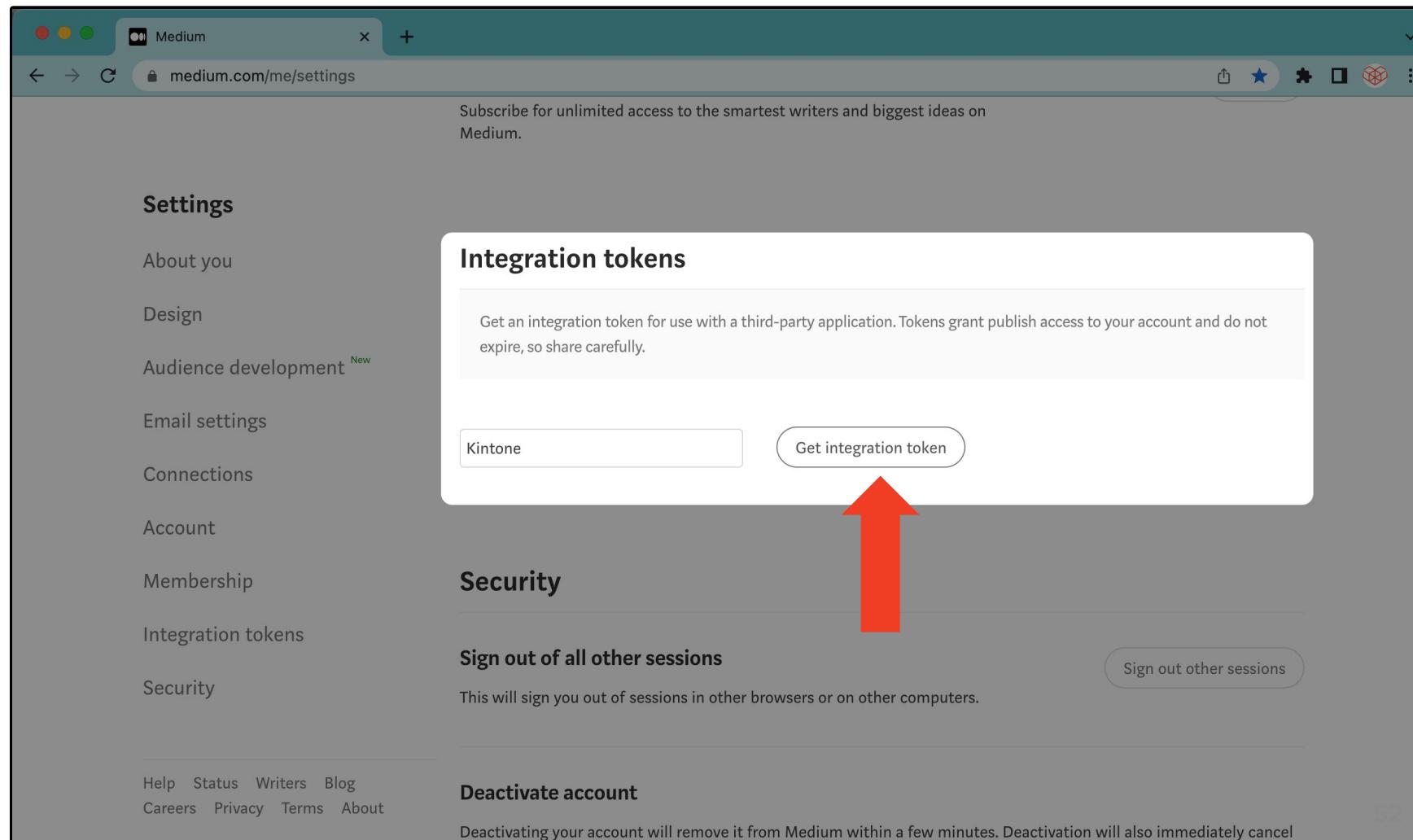
Name the token

& click

Get integration  
token

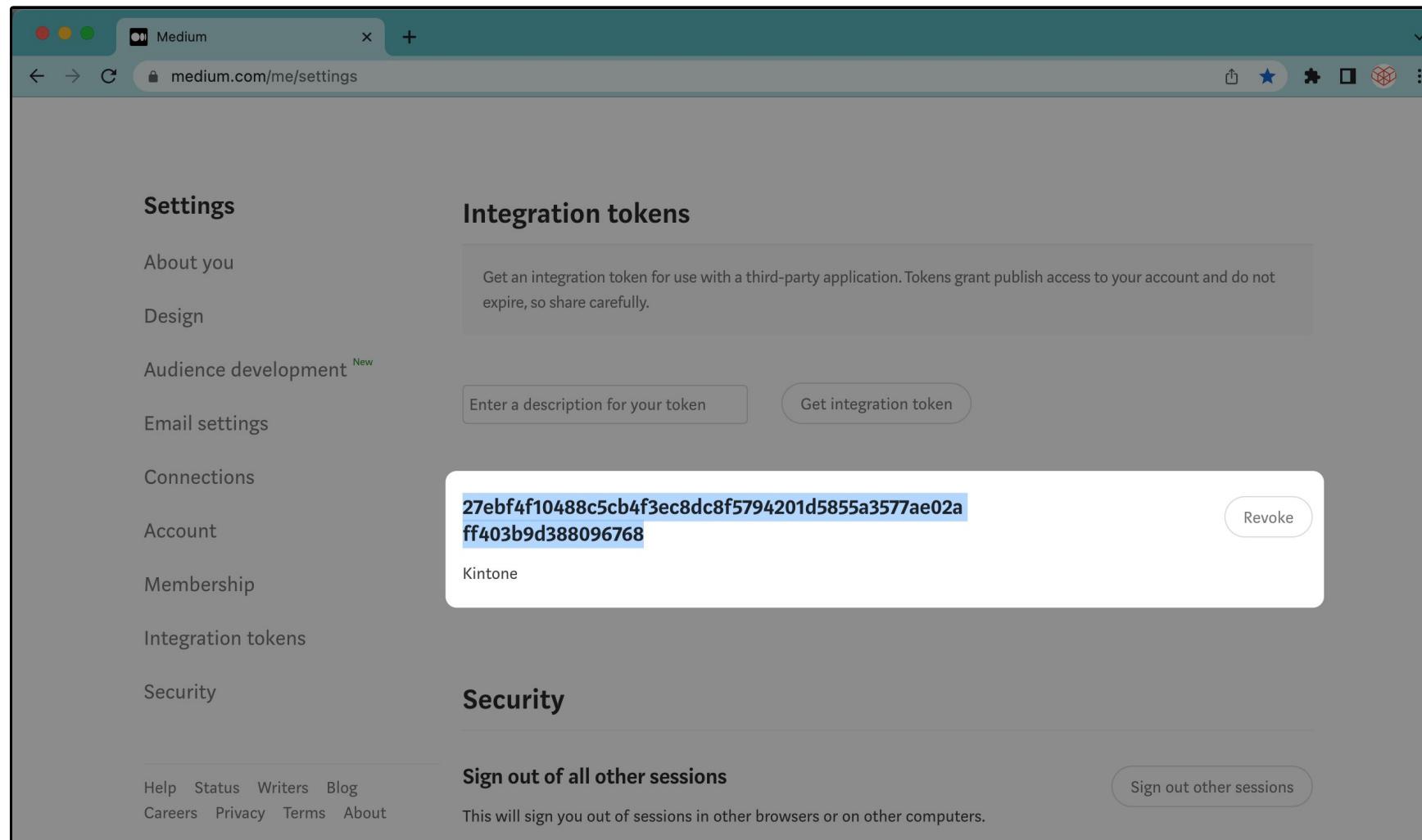
button

Save it in .env file



# Medium's API Token?

Save the  
Medium's API Token  
in the  
.env file  
as  
`VITE_API_TOKEN`



# Medium's Author ID?

Run this  
curl command  
in your terminal

Substituting your  
API Token with  
**MY\_API\_TOKEN**

**Template:**

```
curl -H "Authorization: Bearer MY_API_TOKEN"
https://api.medium.com/v1/me | json_pp
```

**Example:**

```
curl -H "Authorization: Bearer
2d6755756a12c743b4312f85fad0246a7953c68b78ef1
9c9fefef134ef6dd8a429"
https://api.medium.com/v1/me | json_pp
```

# Medium's Author ID?

JSON object will return with your Author ID

Save the "id" string in the .env file as **VITE\_API\_TOKEN**

```
{  
  "data" : {  
    "id" : "1df66a8dd2779709d3ca3b3526a4a...",  
    "imageUrl" : "https://cdn-images...",  
    "name" : "Kintone",  
    "url" : "https://medium.com/@kin",  
    "username" : "kin"  
  }  
}
```

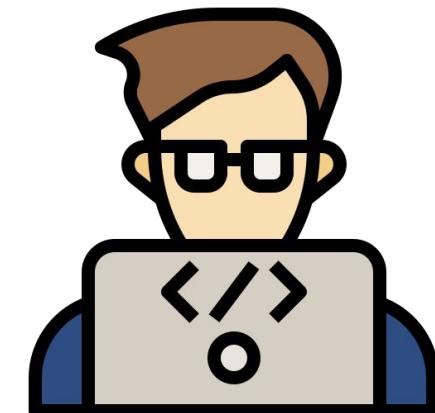
# Go inside the `customize-manifest.json` file

- `customize-manifest.json` file is Kintone Customize Uploader's configuration file
- Replace the **23** with your App's ID
- If it is your first Kintone App, it would be **1**

```
{  
  "app": "23", ←  
  "scope": "ALL",  
  "desktop": {  
    "js": ["dist/KintoneCustomization.js"],  
    "css": []  
  },  
  ...  
}
```

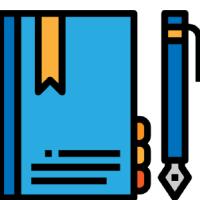
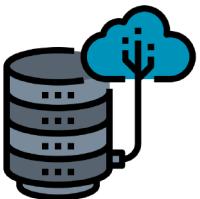
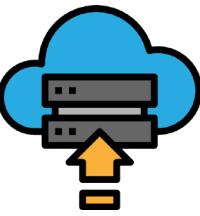
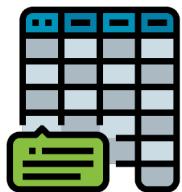
# Time to Explore the Code

1. Code Overview
2. Format the data to POST to medium
3. Create a button in our Kintone App
4. POST to medium API when the  
button is clicked



# Next Steps

- Disable the publish button based on the record status
  - Hint: Just use Kintone's native settings!
- Change the hard-coded tags into a Kintone API call
- Refactor the code to a reactive, stateful framework
- Show a spinner while the API call is in progress
- Notify the user when the upload fails, and why
- Use Medium API to add images in the article



# Where Can I Get Help?

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

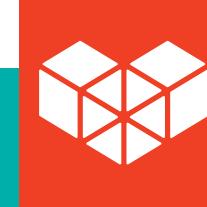
The screenshot shows the Kintone Developer Site forum. At the top, there are navigation links for 'all categories' (with a dropdown arrow), 'all tags' (with a dropdown arrow), and a red 'Categories' button. Below these are filters for 'Latest', 'New (1)', and 'Top'. A '+ New Topic' button is located in the top right. The main area is divided into sections by category:

- Announcements**: 0 topics, 1 new. Description: Events, workshops, & Kintone news will be posted here ~
- General**: 391 topics. Description: Need help using Kintone API or troubleshooting a bug? Ask your fellow developers here!
- Site Feedback**: 0 topics. Description: Discussion about this site, its organization, how it works, and how we can improve it.

On the right, a list of topics is displayed under the 'Latest' filter:

- Welcome to Discourse (0 replies, 6 hours ago)
- The value of a Text Field not showing on Detail Edit Page (0 replies, 3 days ago)
- Javascript program cannot be more than 270 lines (2 replies, 8 days ago)
- How to copy a file from a folder of my PC to another ? (1 reply, 9 days ago)





Any  
Questions?

kintone.dev

# Thank You!



# Thank You to Our Community Partners!



**HackBuddy by JavaScriptLA**

# Join Our Future Workshops!



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



Join our Meetup to not miss out!

**[bit.ly/KDP\\_Events](https://bit.ly/KDP_Events)**



# Bring a Buddy Campaign!



**For every friend you invite & joins the workshop,  
you will receive an additional entry in the  
Amazon Gift Card raffle!**

# 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, React x Kintone



**[bit.ly/KDP\\_Video](https://bit.ly/KDP_Video)**

# Thank You for Your Participation!

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



**We are also giving out  
SWAG!**

*\*Limited to US locations*



**[bit.ly/kdp\\_may22](https://bit.ly/kdp_may22)**