



# Welcome to the Medium x Kintone Workshop!

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.





FYI 😊

## YouTube

**Subscribe** to get notified we upload the recording!

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



## Gift Card Raffle

Stay till the end to **enter 2 raffles!**  
\$25 gift card!  
&  
**\$200 Special Giveaway**



## SWAG Gift Away

Fill out our survey to get **free swag!**

*Limited to North American addresses*





# 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

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

- ✓ Use Chrome or Firefox
  - ✗ NOT Safari
- ⚡ Accept Cookies First
- ⚠ Only Use
  - lowercase [a-z]
  - numbers [0-9]
  - hyphens [-]
- 🤖 Ex: cool-robot-v5

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*



# 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\*

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Please Select

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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!

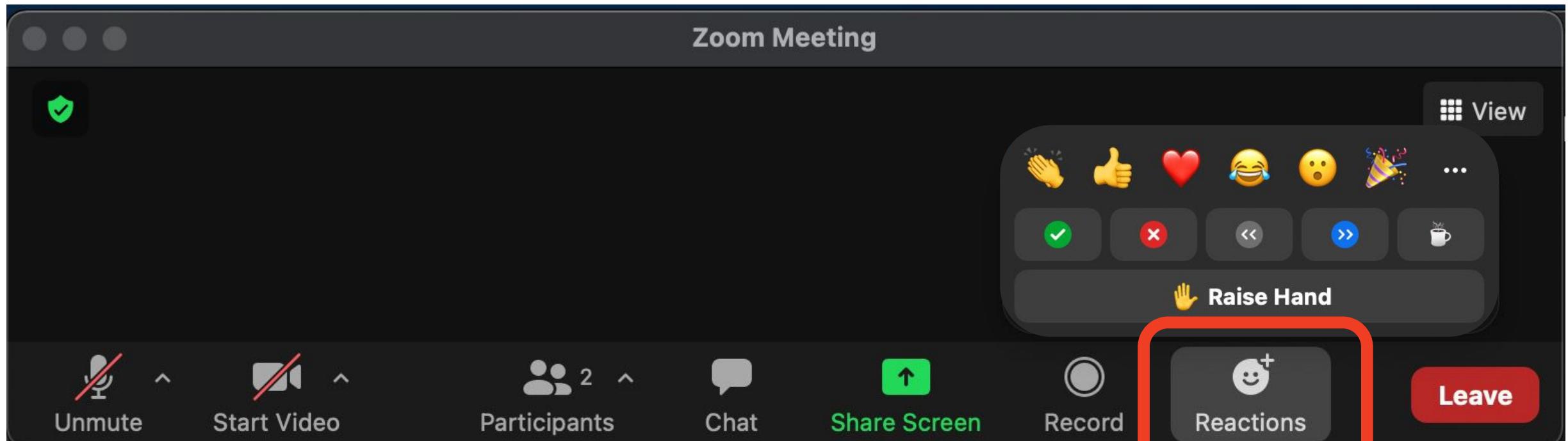
### Errors related to .env

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

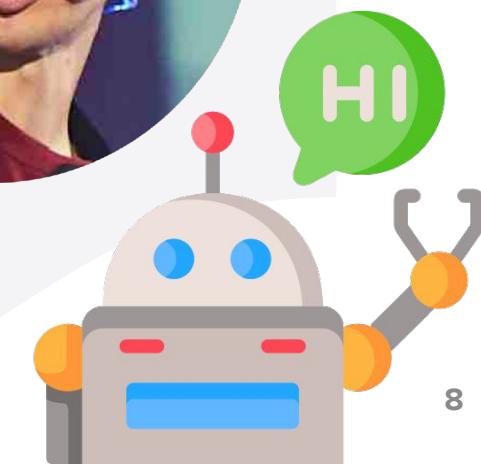
**Sean**



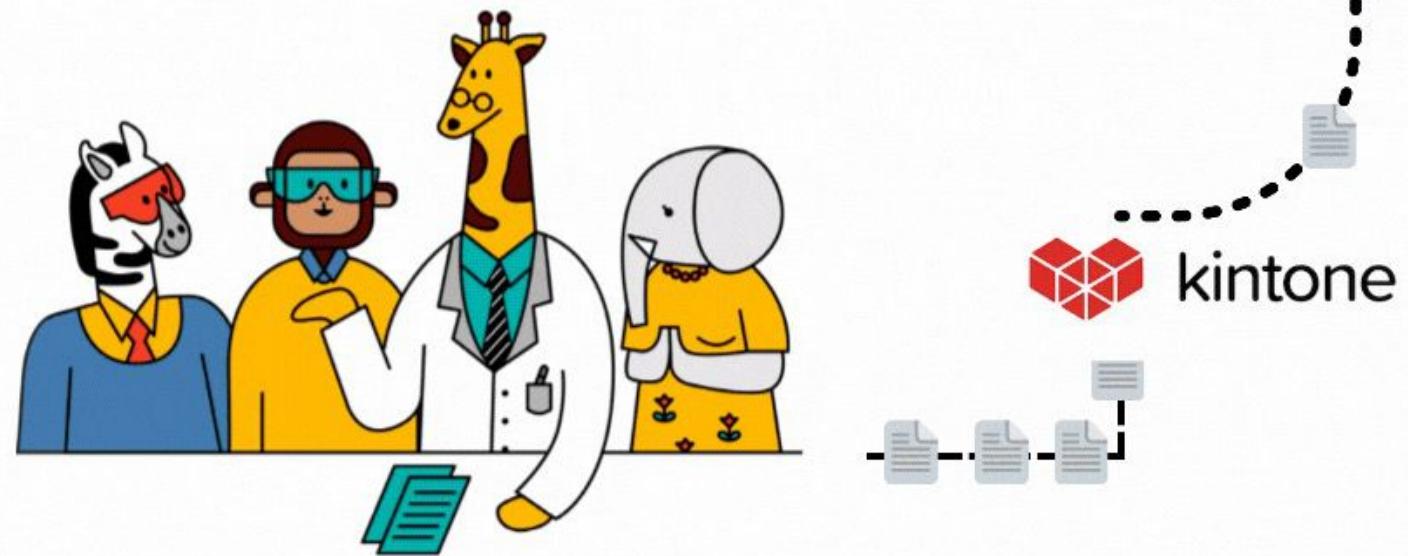
**Genji**



**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

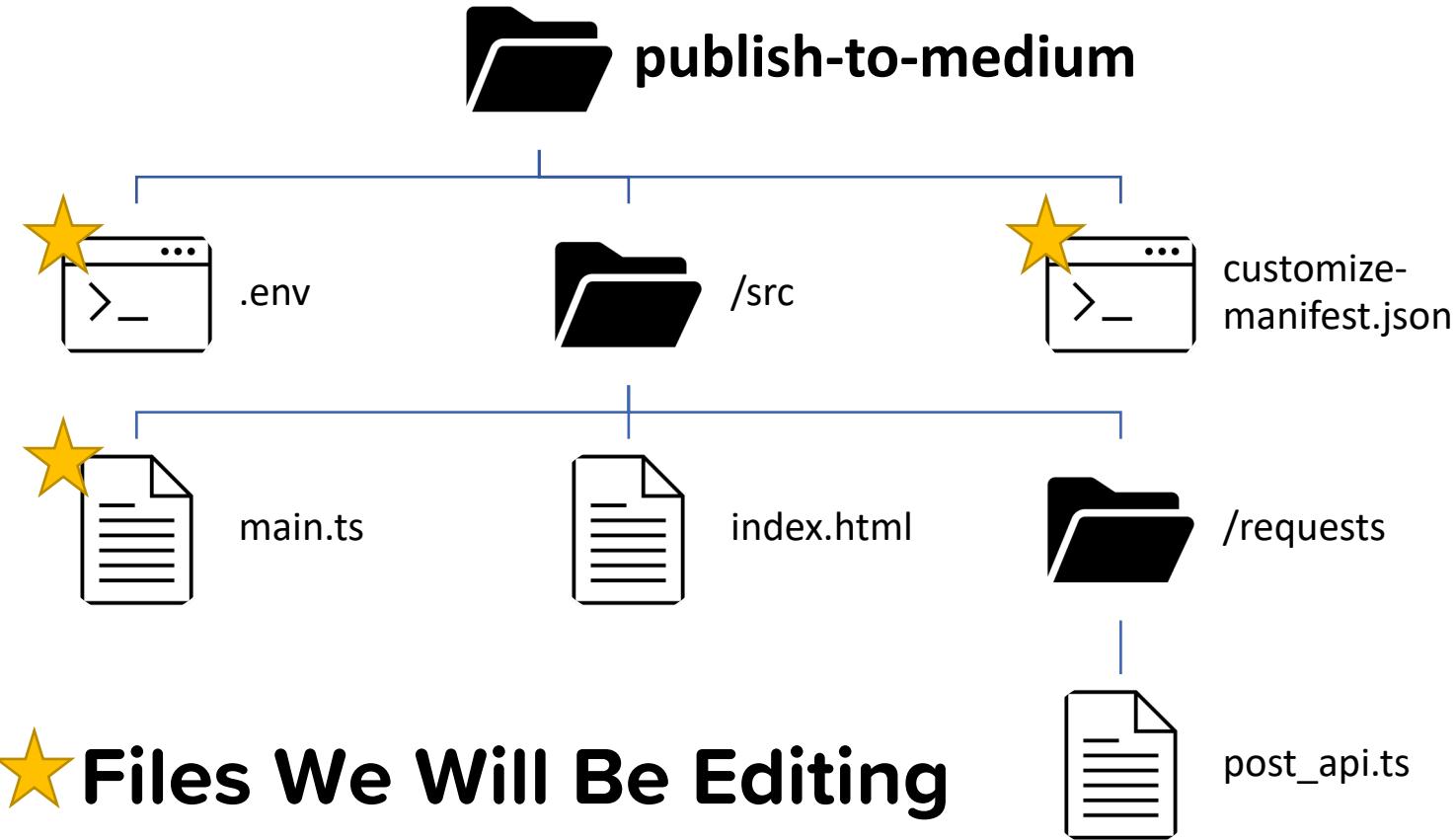
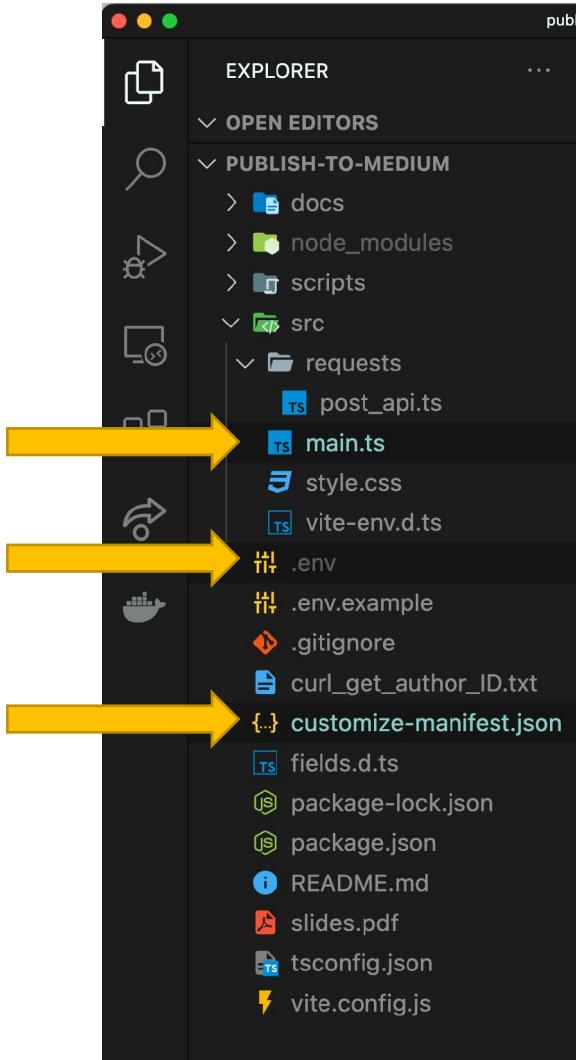
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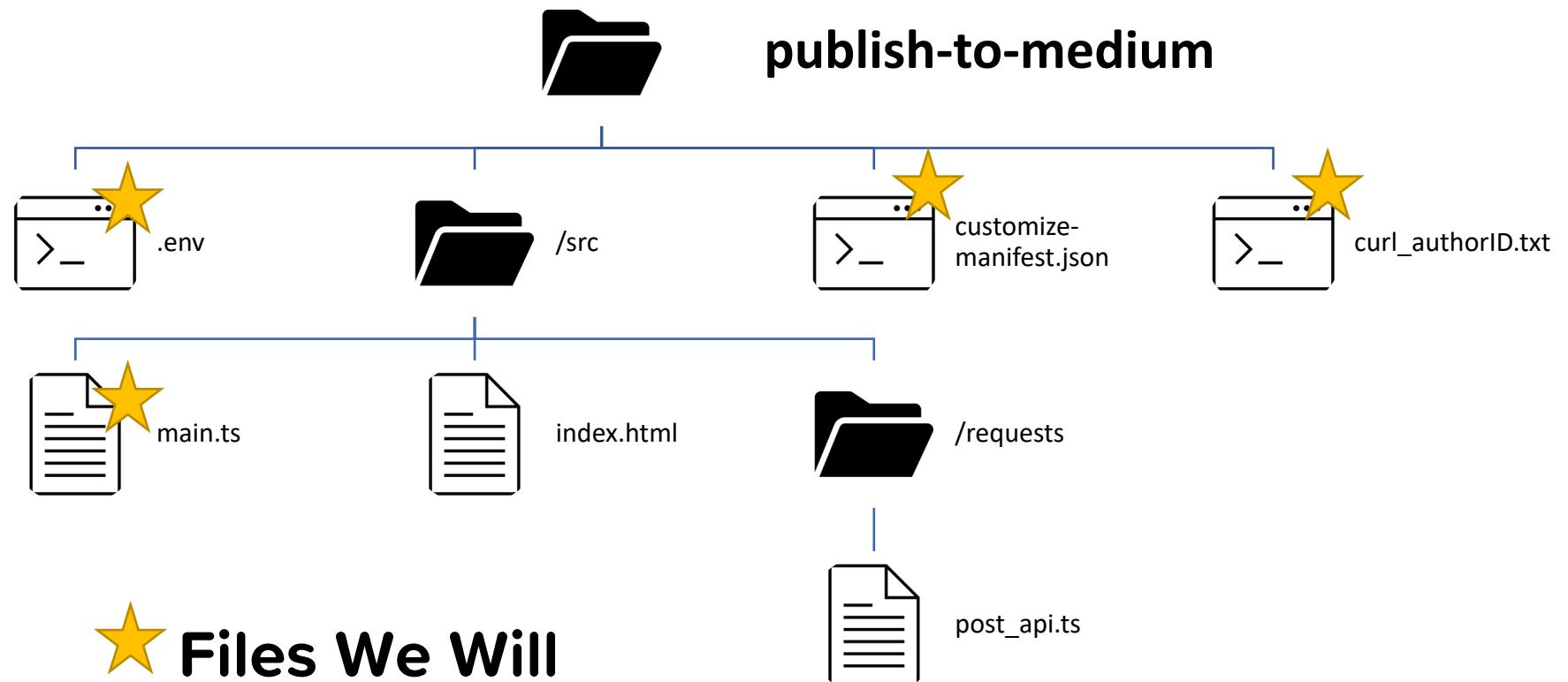
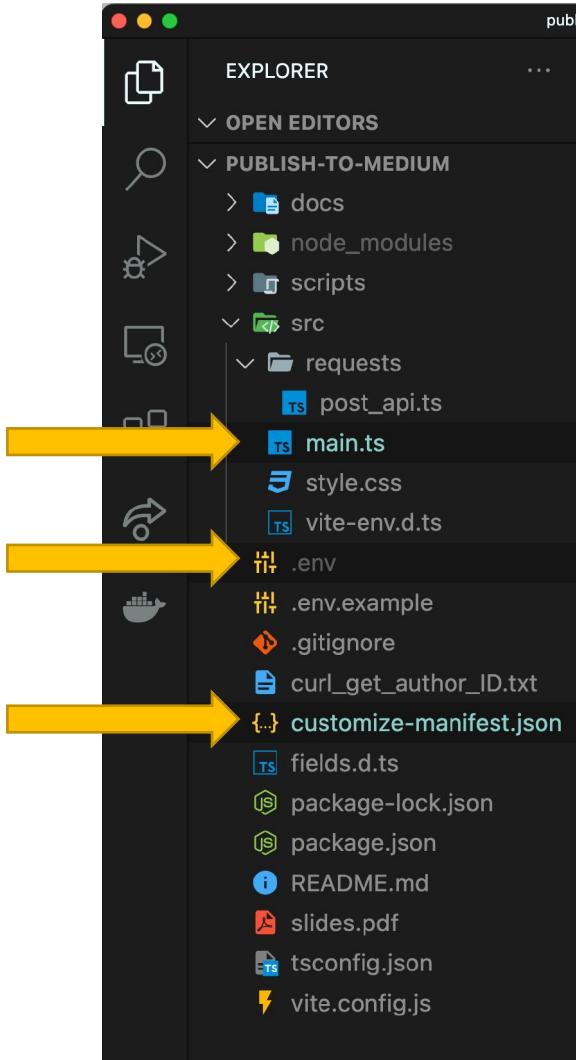
Run these commands  
from your terminal

```
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

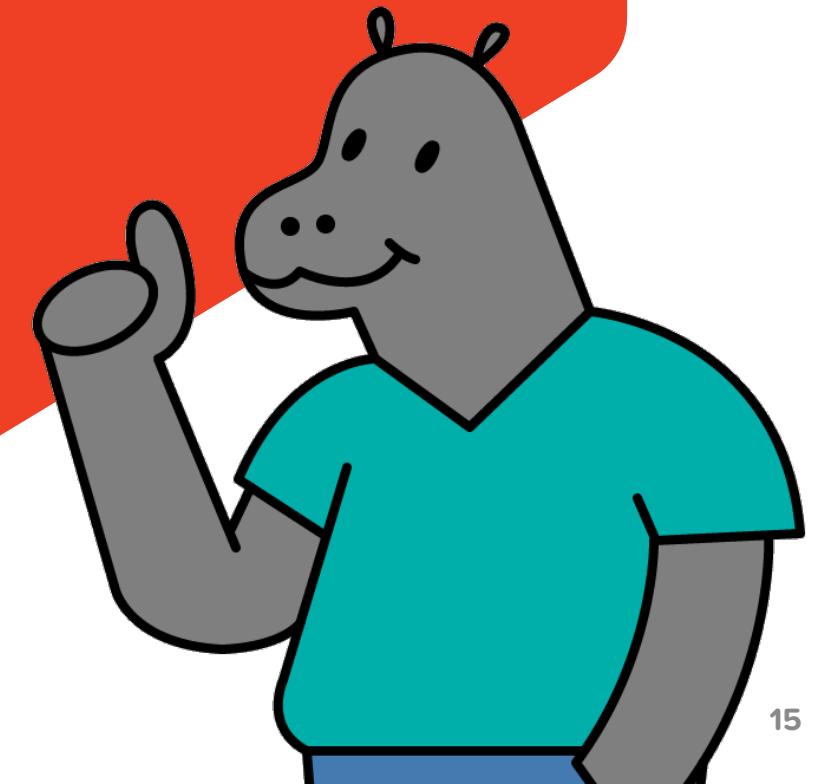


# Overview of the Repo



★ Files We Will  
Be Editing

# Quick check-in with Zoom polling



# Quick Dive into TypeScript & Vite



# What is TypeScript?

## TS is JS

- TypeScript (TS) is a **flavor** of JavaScript (JS)
- Existing JS code works inside TS files
- TS layers a **type system** on top of JS

## Type System

- Type system enforces the [JS types](#) set per variable to avoid bugs
- Set types explicitly or implicitly
- Use colons, interfaces, or initial value

## Convert TS to JS

Convert a TypeScript file to a JavaScript file with either:

- tsc command
  - *tsc index.ts*
- JS Bundlers
  - Webpack or Vite

# Main benefits of TypeScript

## Consistency

- Type system forces programmers to be consistent
- Great when you have 1+ dev team

## JS Versions

- Compile TS code down to a JS version you want

## Avoid Bugs

- Avoids [TypeErrors](#)
- Works well with IntelliSense → Better auto-complete function

# What is VITE?

## Build Tool

- Vite is a fast JavaScript **build tool** for building frontend web apps

## Opinionated

- Vite is opinionated and comes with default settings
- Also, highly extensible via Plugin API & JavaScript API

## Faster Webpack

- Like Webpack but *faster*
- Vite uses native ES Modules in the browser to load the code faster

# Main benefits of Vite

## Better Dev Ops

Better development experience with

- Quickly serve code to localhost with native ESM
- Hot Module Replacement (HMR)

## Bundle

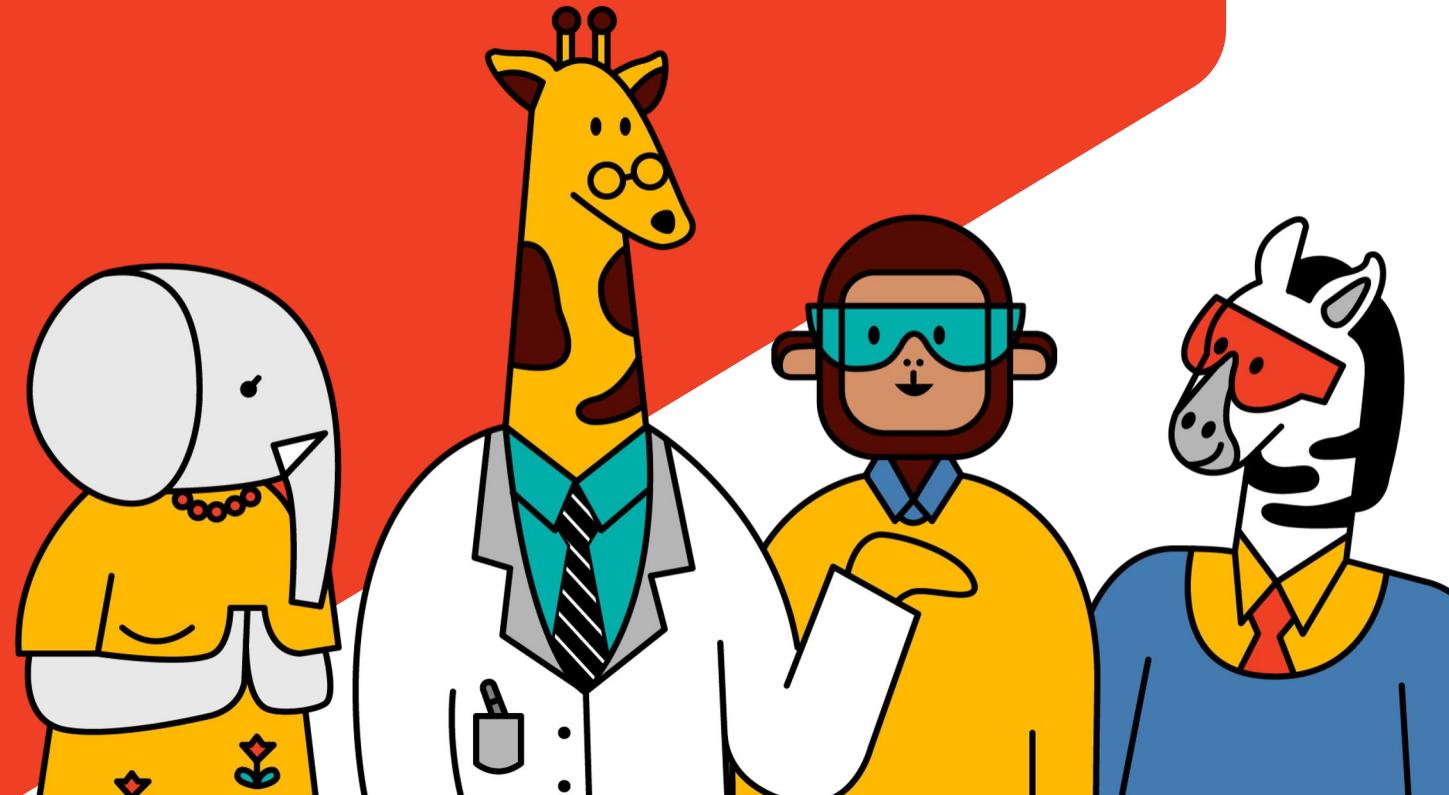
- Bundle code for production using [Rollup](#)
- JSX and TSX are supported by default

## 20x Faster for TS

- Works super fast with TypeScript
- Vite supports importing TS files out of the box
- Vite does not perform type checking itself

# What is Kintone?

Built for teamwork,  
designed by you



# What is Kintone?

The screenshot displays the Kintone interface with several panels:

- Customer Database:** Shows three items: Admin:Green, Admin:Green, and Admin:Green.
- Sales Leads:** Shows one item: Admin:Green.
- Contact Log:** Shows one item: Admin:Green.
- Threads:** A list of threads:
  - Deal Flow (Apr 3 11:24 AM)
  - Sales Division (Apr 1 11:49 PM)
  - 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
  - [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 ...

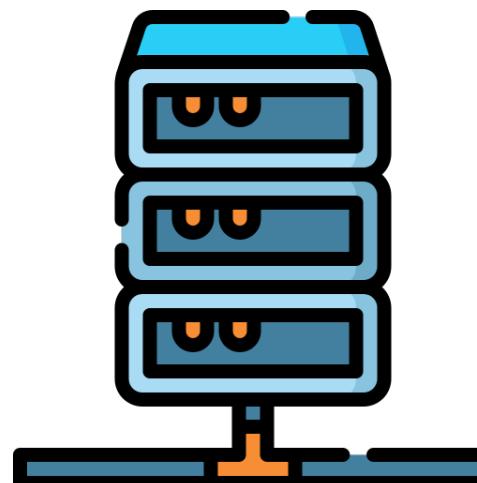
At the bottom left, it shows the date and time: Apr 1 10:43 PM and the user: Mary Simpson.

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

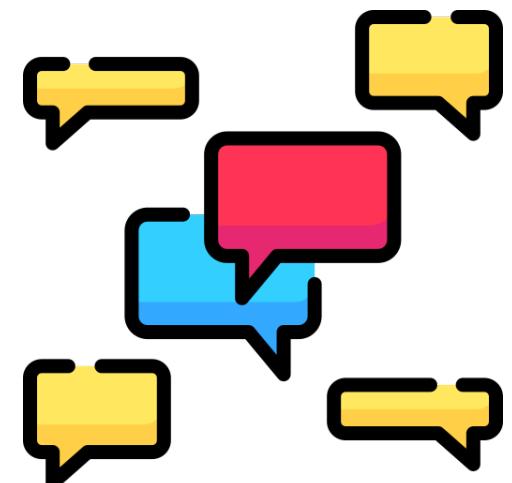
# Where Kintone is Special!



kintone



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



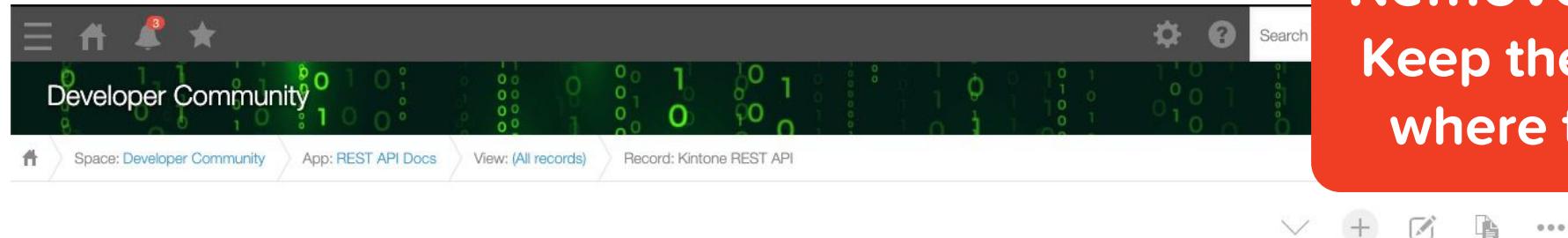
# Missing - Unified Communication

## 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 a Kintone REST API documentation page. It shows fields for 'EN Section' (API Info), 'EN API Group' (Kintone REST API), and 'EN Method' (GET). Below these are fields for 'EN API Name' (Get API Schema), 'EN URL (Endpoint)' (/k/v1/apis/\*.json), and 'EN Article Link' (<https://developer.kintone.io/hc/en-us/articles/115006107628>). A 'Fix History' section includes a table:

Table

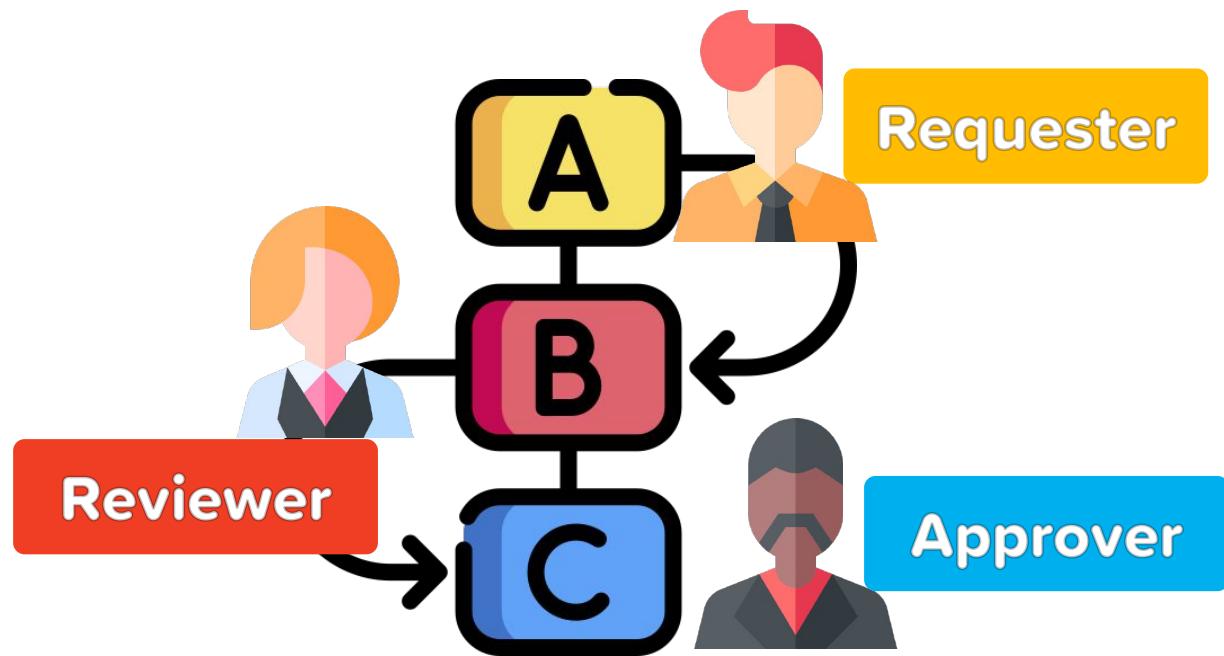
Date	Fixed By	Before	After	Fix Details
Aug 27, 2020	Clare - Support			Fixed the GET API List API link Added apis.{key}.link

A screenshot of a Kintone comment thread. The first comment is from '3: Clare - Support' (@Sharon - Developer @Genji) at Aug 27, 2020 1:29 AM, stating 'Done!'. The second comment is from '2: Sharon - Developer' (@Genji) at Aug 27, 2020 1:28 AM, replying 'Oh, shoot, thanks for catching my mistake!'. The third comment is from '1: Genji' (@Clare - Support) at Aug 27, 2020 1:27 AM, replying 'Please take a look at this document.' A red callout box on the right contains the text: 'Where Communication Lives'.

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

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

Form

Views

Graphs

App Settings

Discard Changes

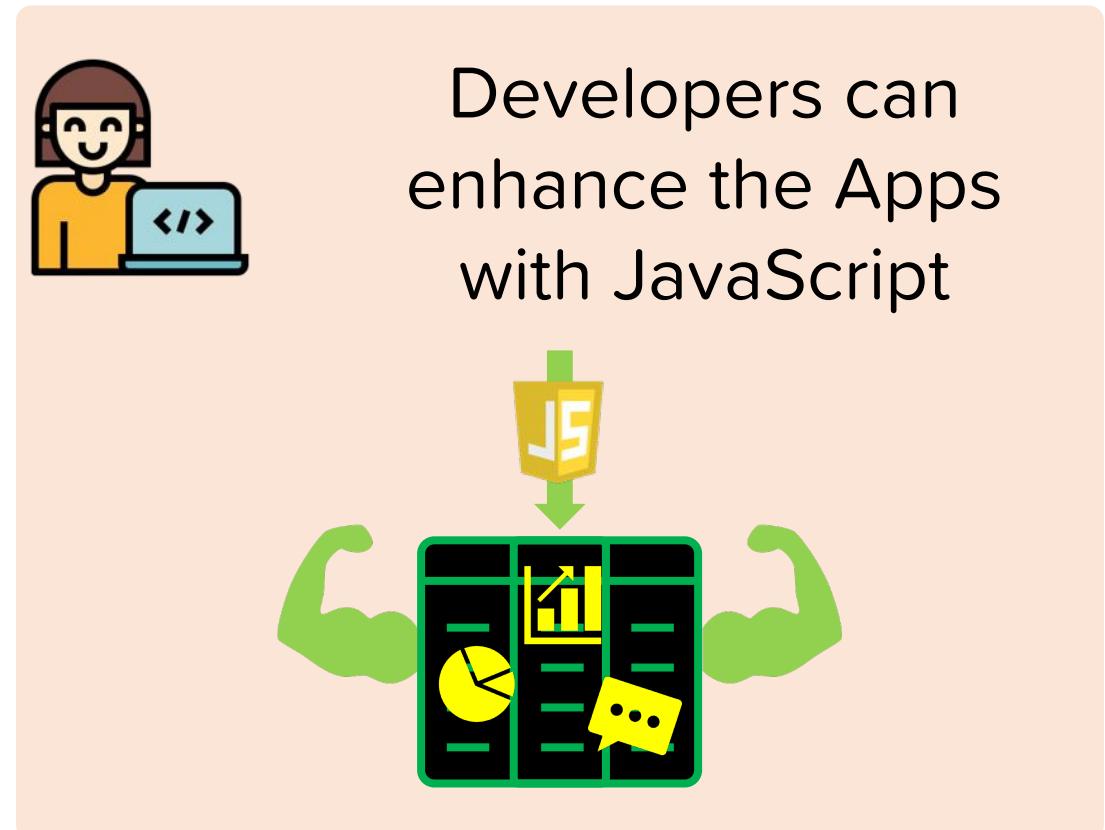
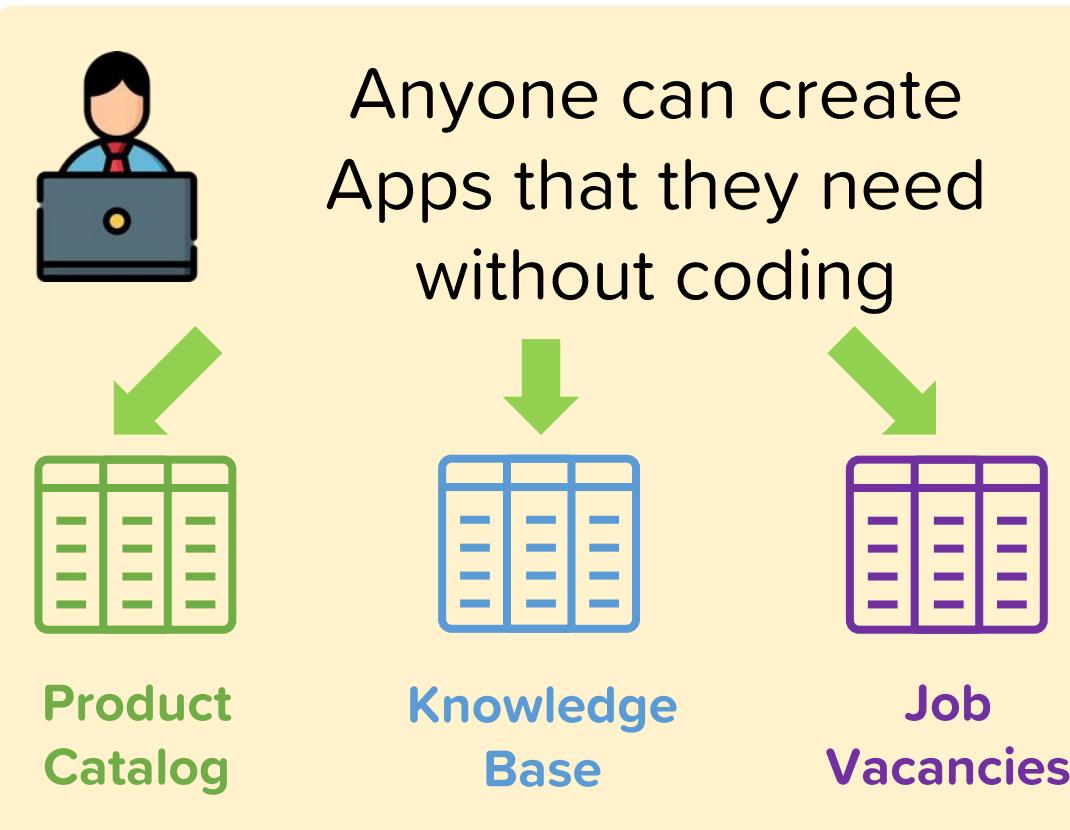
Update App

**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!

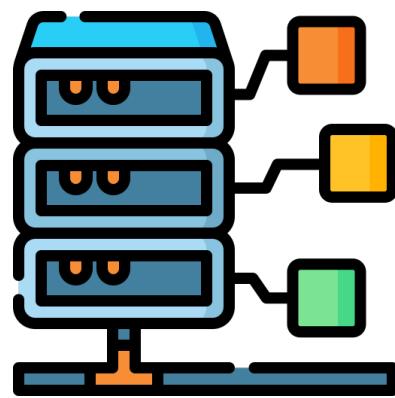
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



# Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

**Data + Communication**



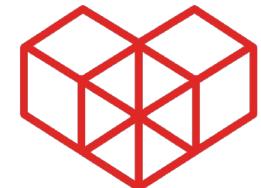
**Insight**



**Action**



# How Developers Contribute

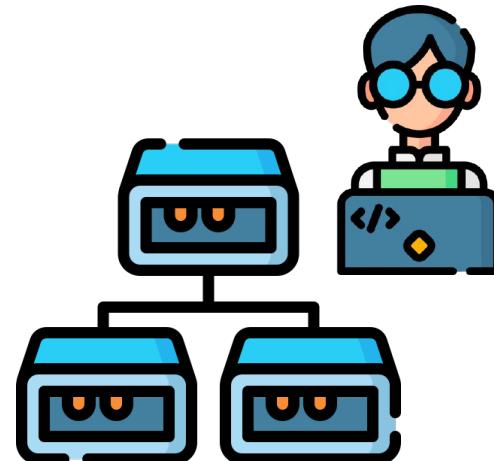


**kintone**  
developer program

# How Developers Contribute

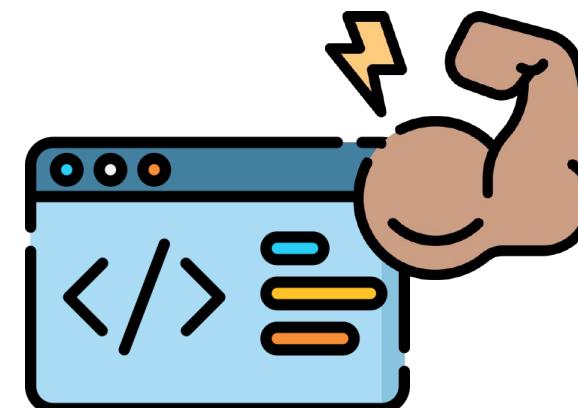
## Command Center

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



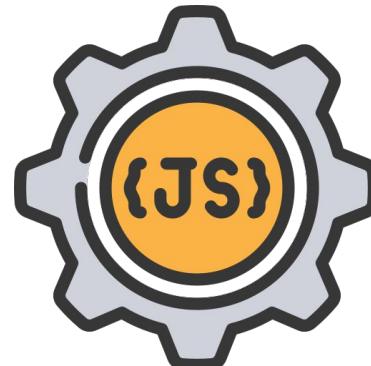
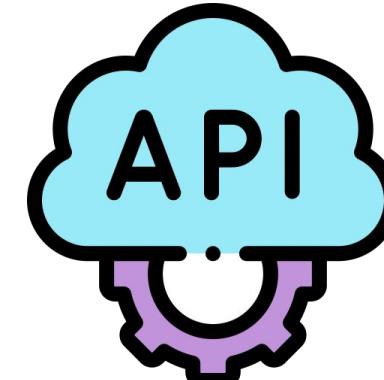
## Enhancements

- Develop JavaScript customizations
- Build & share extensions



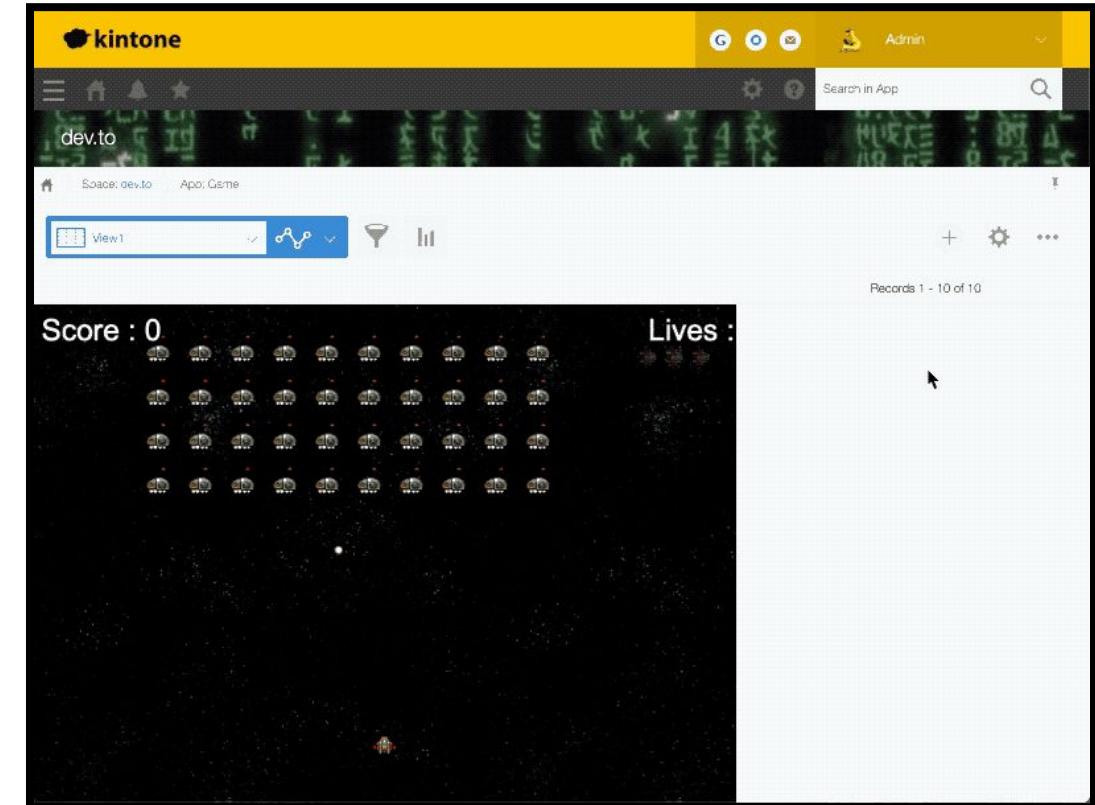
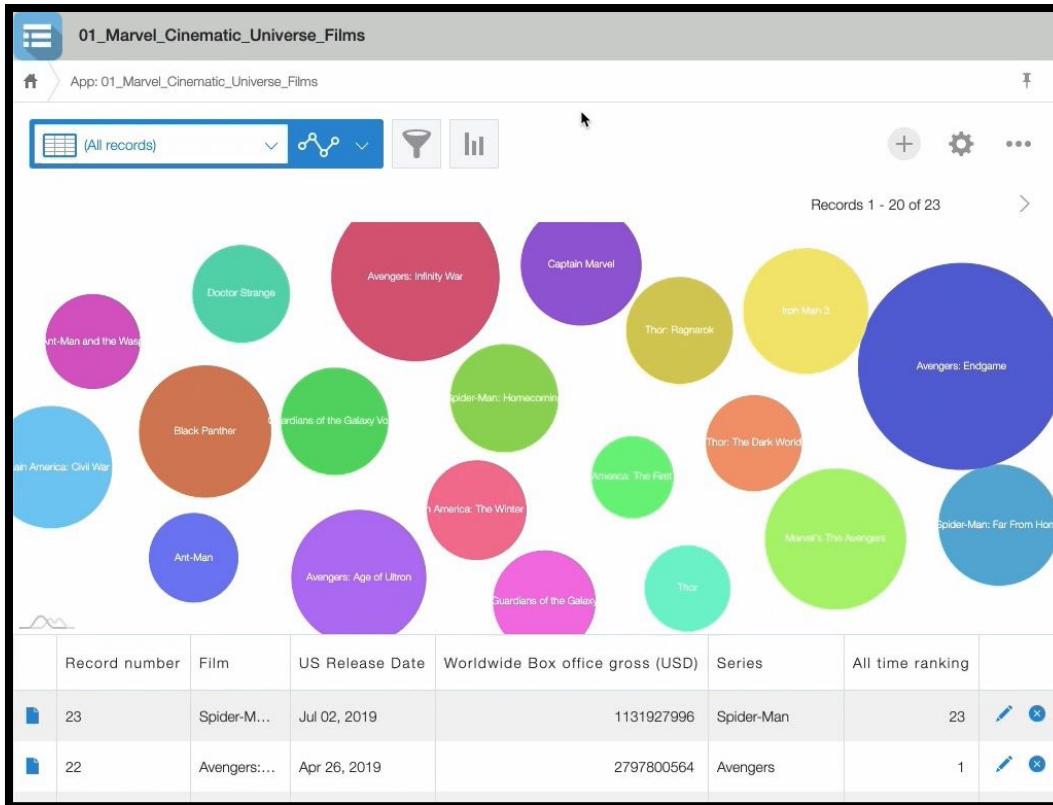
# Tools Inside Kintone

- 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!

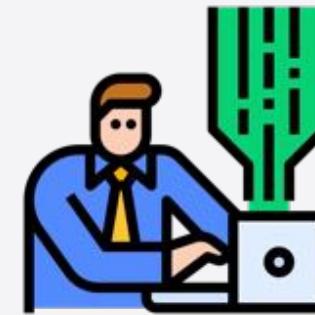
# Kintone For Creating Revenue



Create & sell  
Kintone  
extensions



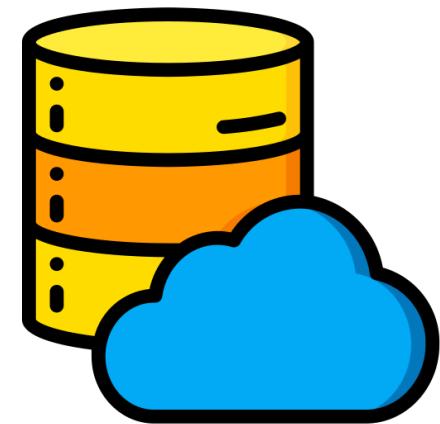
Consult with firms  
on achieving  
business goals



Develop Kintone  
customizations for  
customers

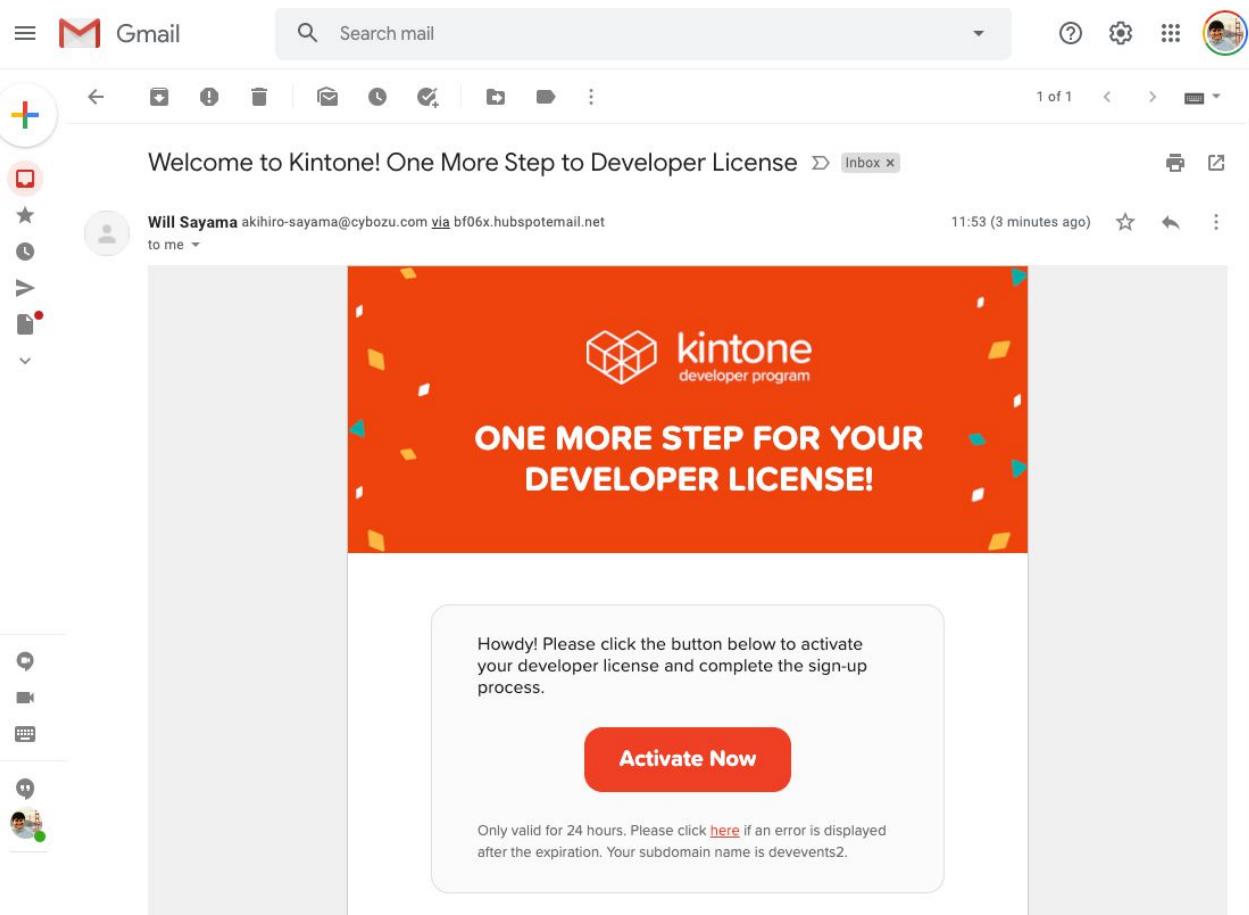
# Let's Create a Kintone Database App

Step-By-Step Guide

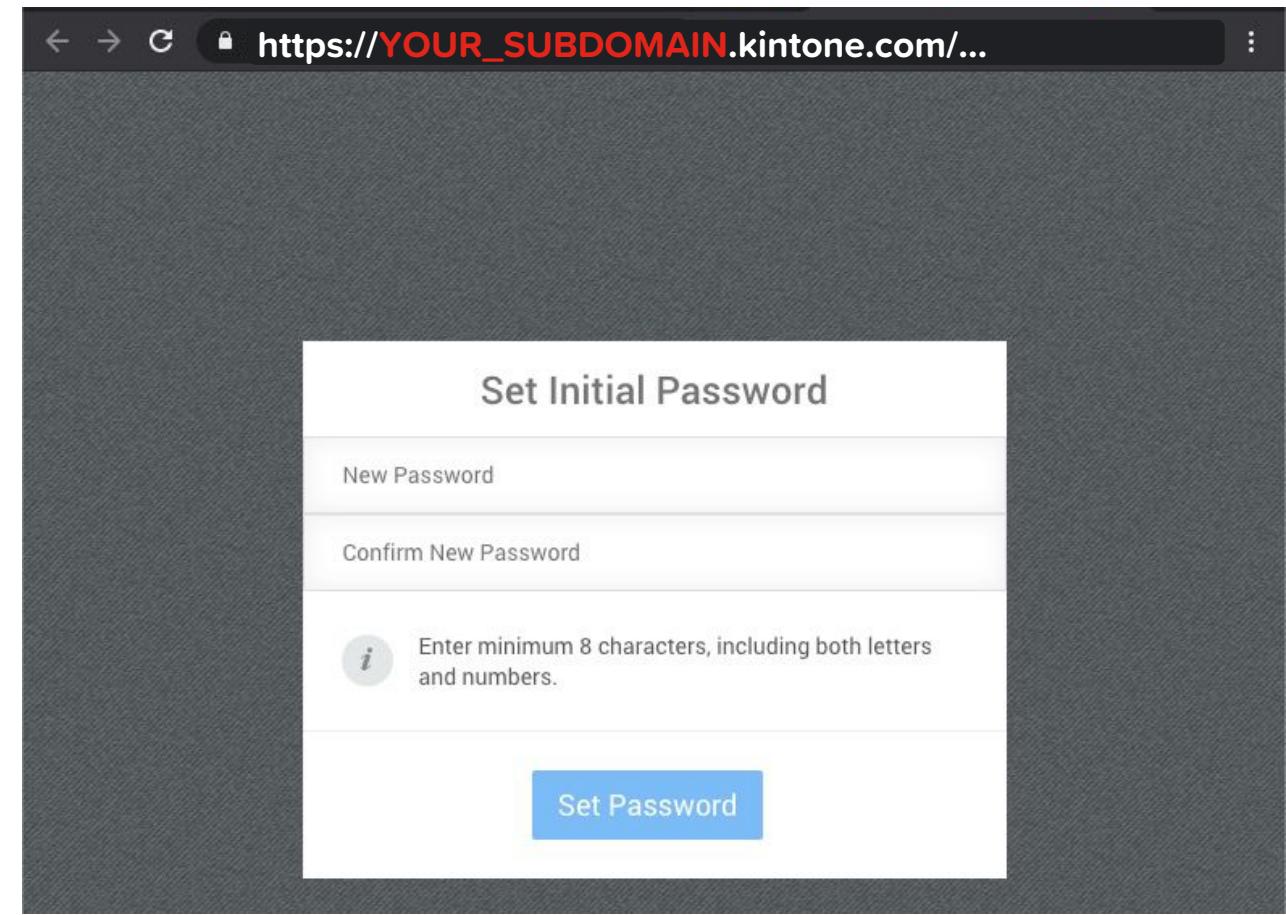


# Check Your Email

Welcome to Kintone! One More Step To...



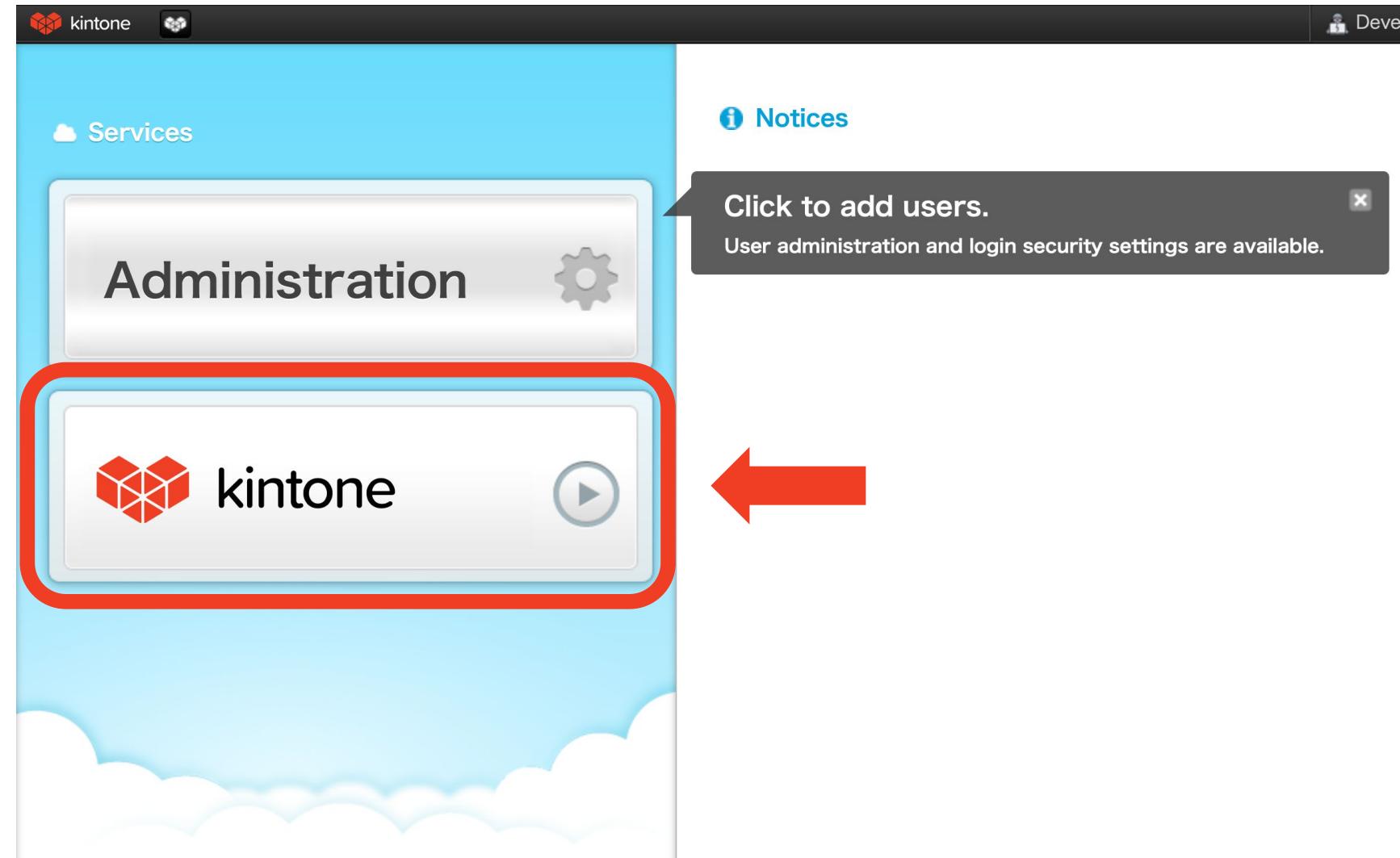
**YOUR\_SUBDOMAIN.kintone.com**



# Let's Log into Kintone

Click on Kintone button on the Left side

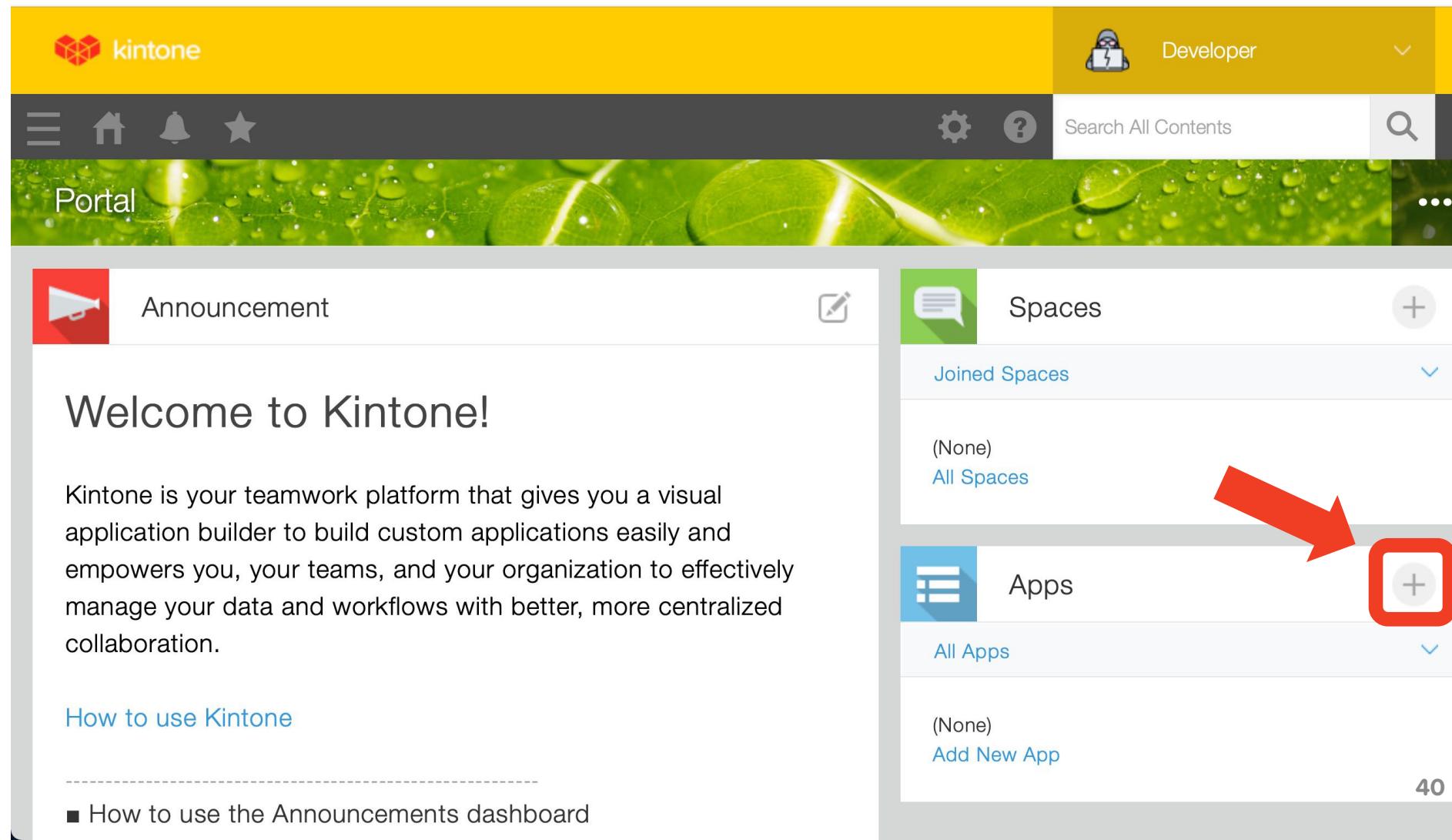
The email has the initial registration link & subdomain



# Create a Kintone Database App

From the Portal screen

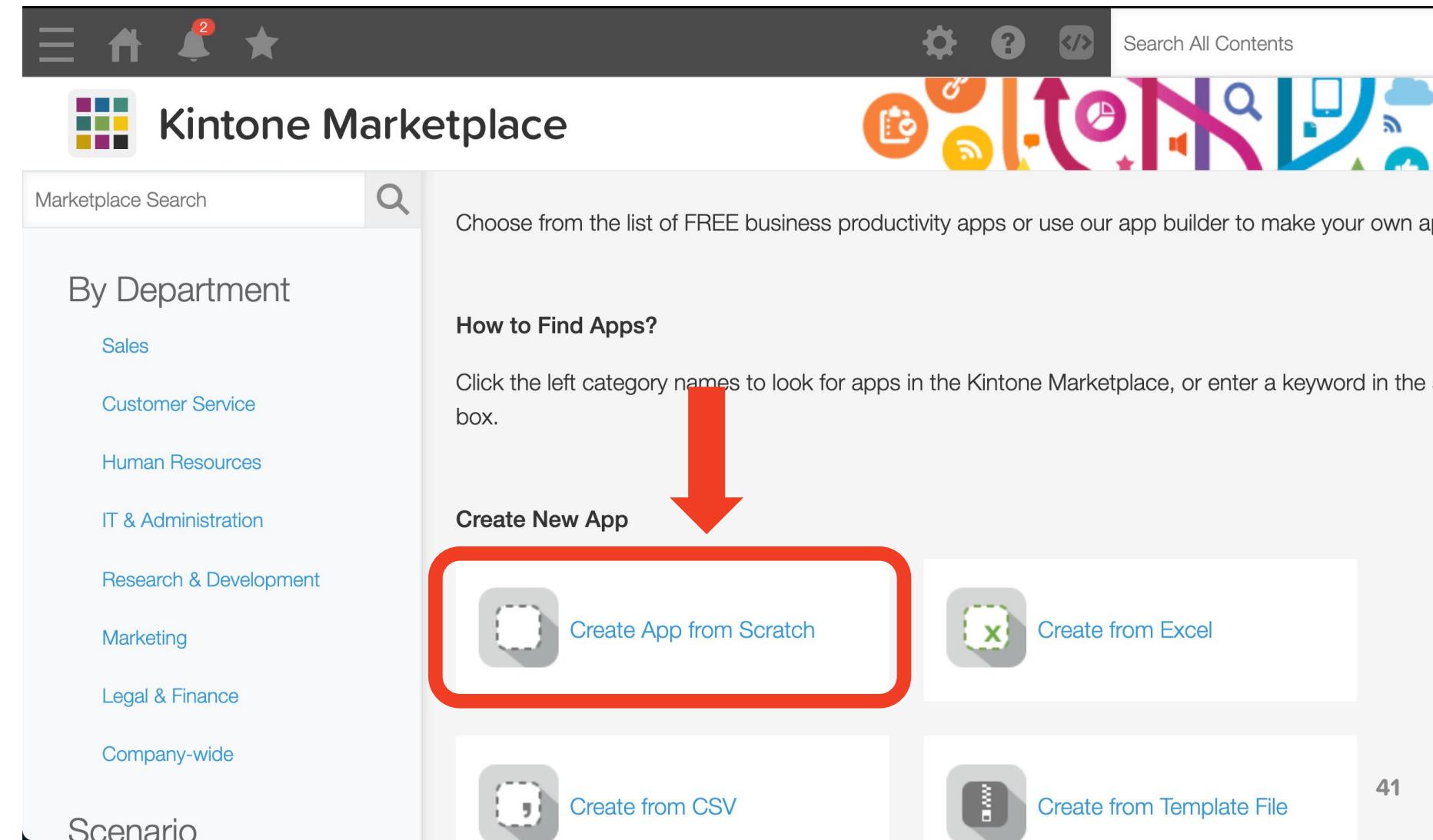
Click the  
[+] button  
on the  
Right side



# 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: This app does not exist (Create)'. The interface includes tabs for 'Form', 'Views' (which is selected), 'Graphs', and 'App Settings'. On the left, a green button says 'Save Form'. Below it is a list of field types: Label, Text, Rich text, Text area, Number, Calculated, Radio button, Check box, Multi-choice, Drop-down, Date, Time, and Date and time. To the right, there is a large area with a grey arrow pointing down and the text 'Drag and drop fields here.'

# Building the Publish To Medium App

Drag & drop following fields into the middle area

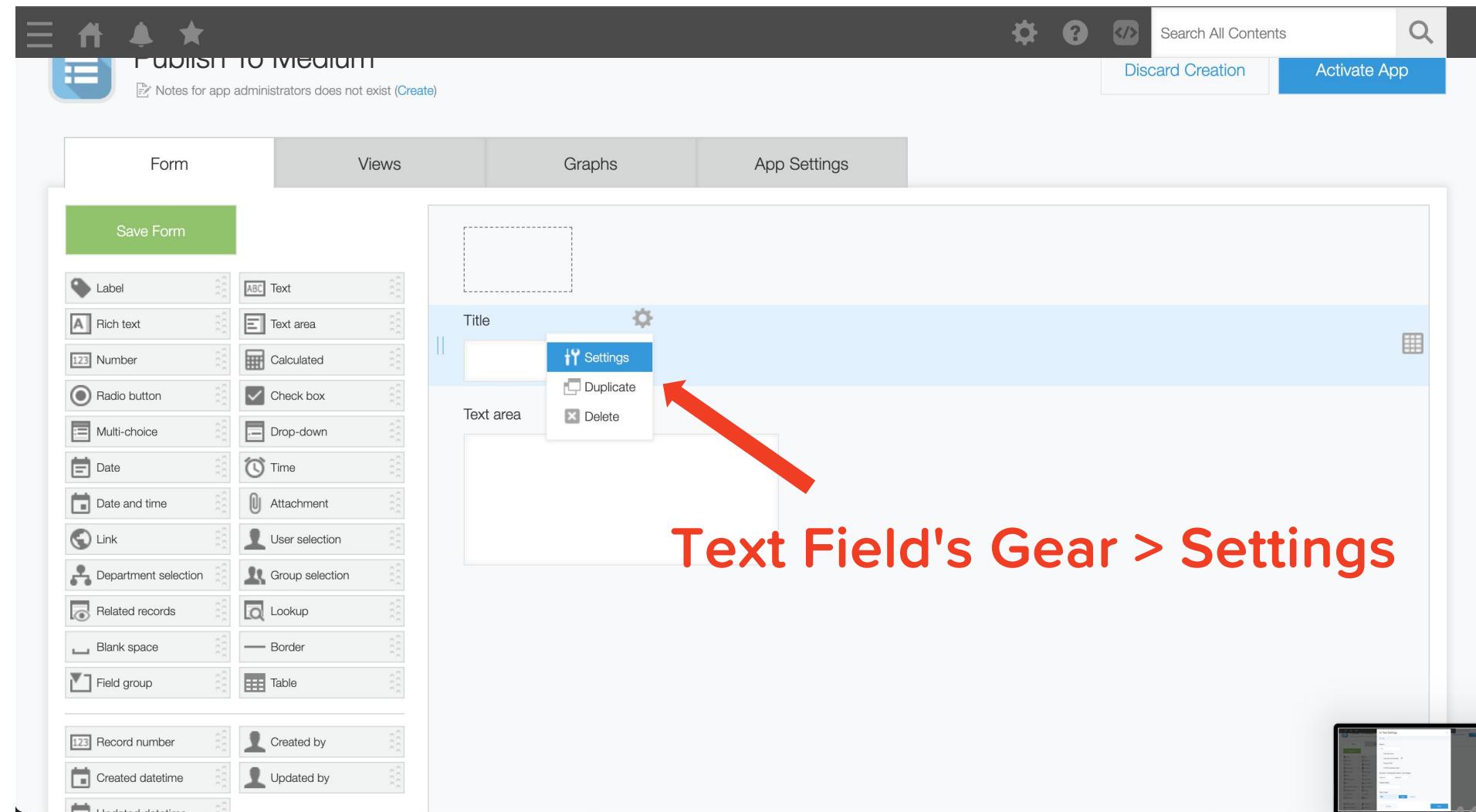
The screenshot shows the 'Publish To Medium' app builder interface. At the top, there's a navigation bar with 'Discard Creation' and 'Activate App' buttons. Below the title 'Publish To Medium' and a note about notes for administrators, there are tabs for 'Form', 'Graphs', and 'App Settings'. A large central area is labeled 'Drag and drop fields here.' and contains a list of field types: Label, Text, Text area, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Related records, Blank space, Text, Text area, Calculations, Checkbox, Dropdown, Time, Attachment, User selection, Group selection, Lookup, Border, and Table. A blue curved arrow points from the left towards the 'Text area' field, which is highlighted with a red rounded rectangle. A red curved arrow points from the bottom towards the 'Blank space' field, which is highlighted with a blue rounded rectangle.

1x **Text field**  
1x **Text Area**  
1x **Blank Space**

# Configure Fields

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

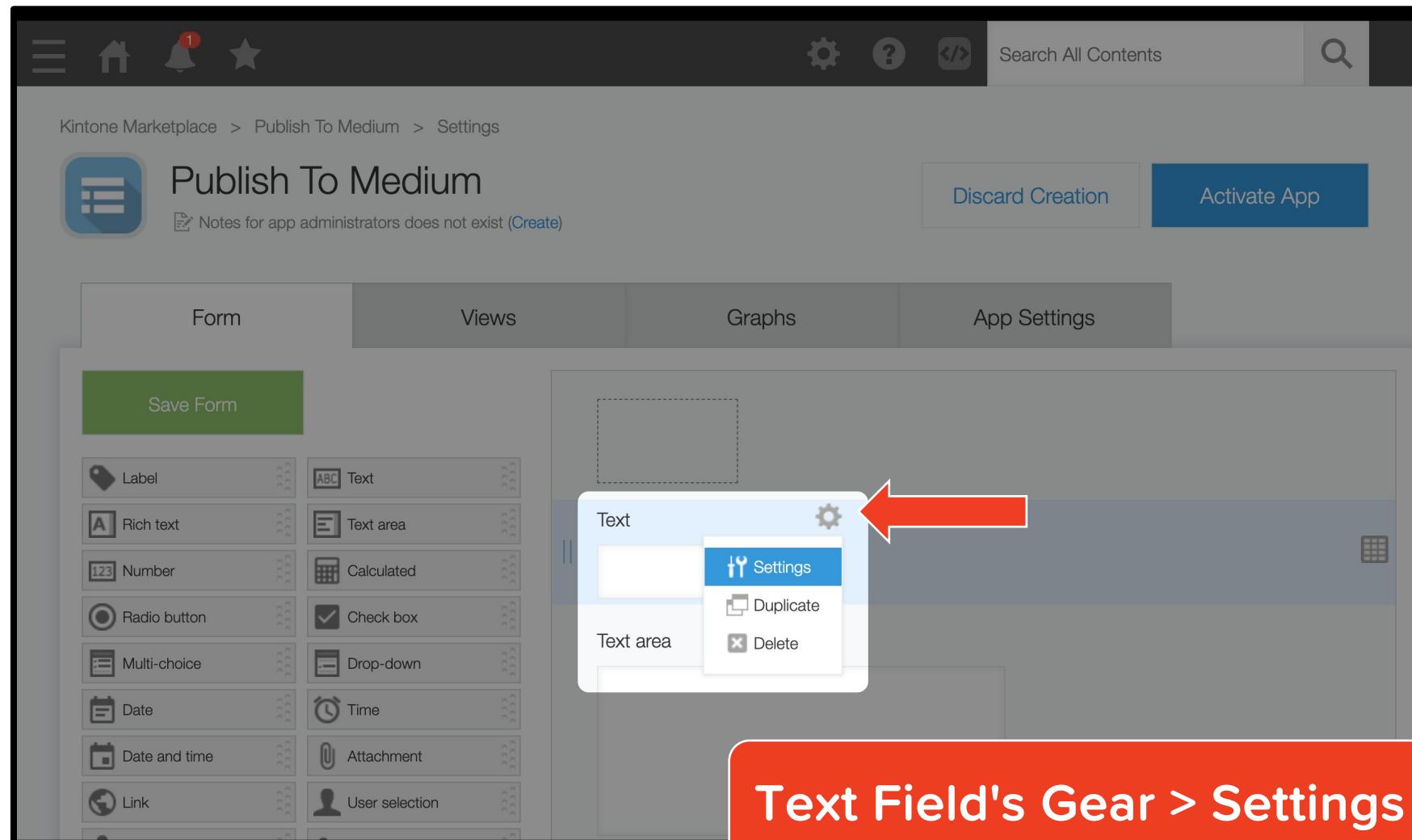
Edit the **Name** & **Field Code**



# Configure Fields

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

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

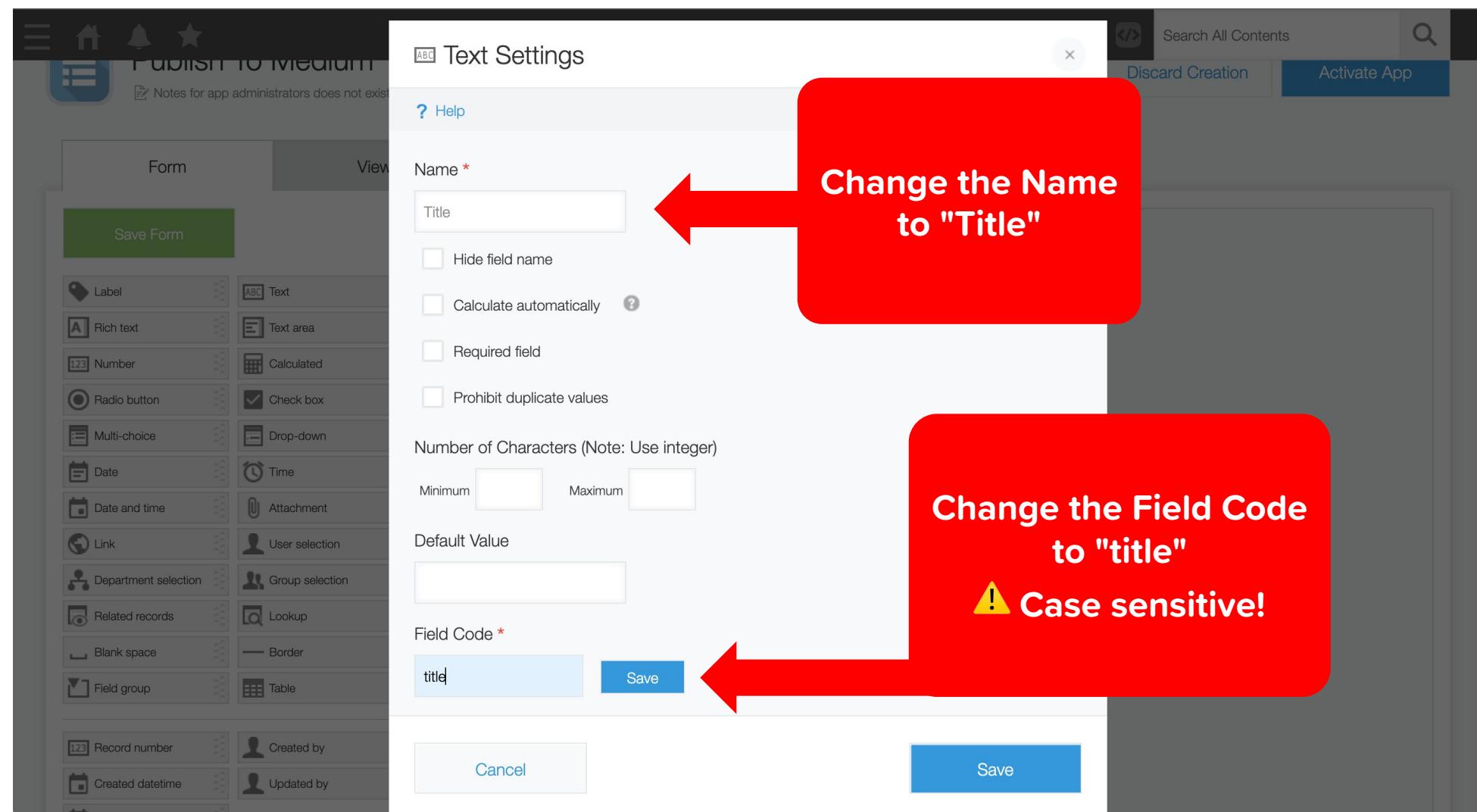


Text Field's Gear > Settings

# Inside the Text Field Settings

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

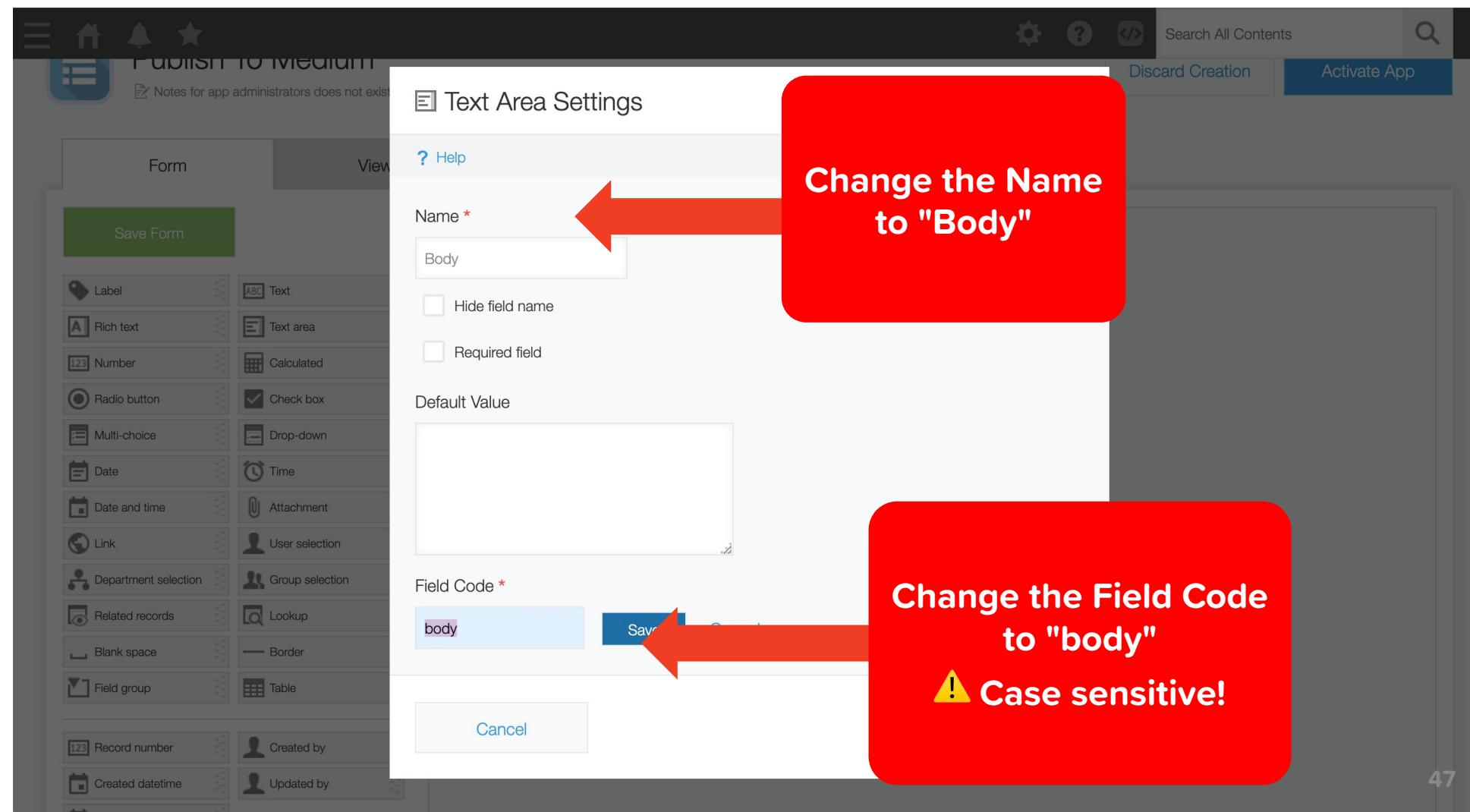
Edit the **Name** & **Field Code**



# Inside the Text Area Field Settings

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

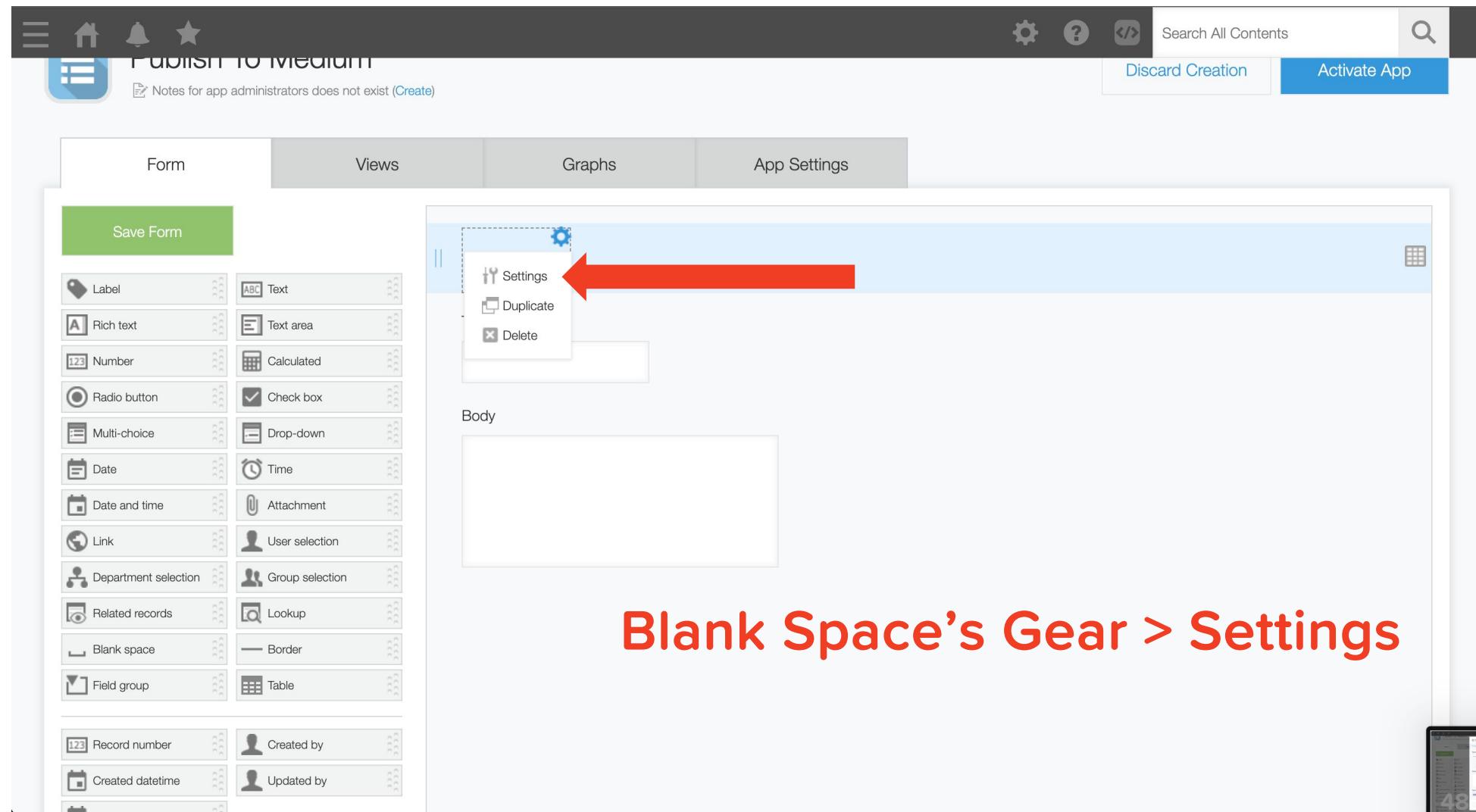
Edit the **Name** & **Field Code**



# Configure Fields

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

Edit the **Element ID**

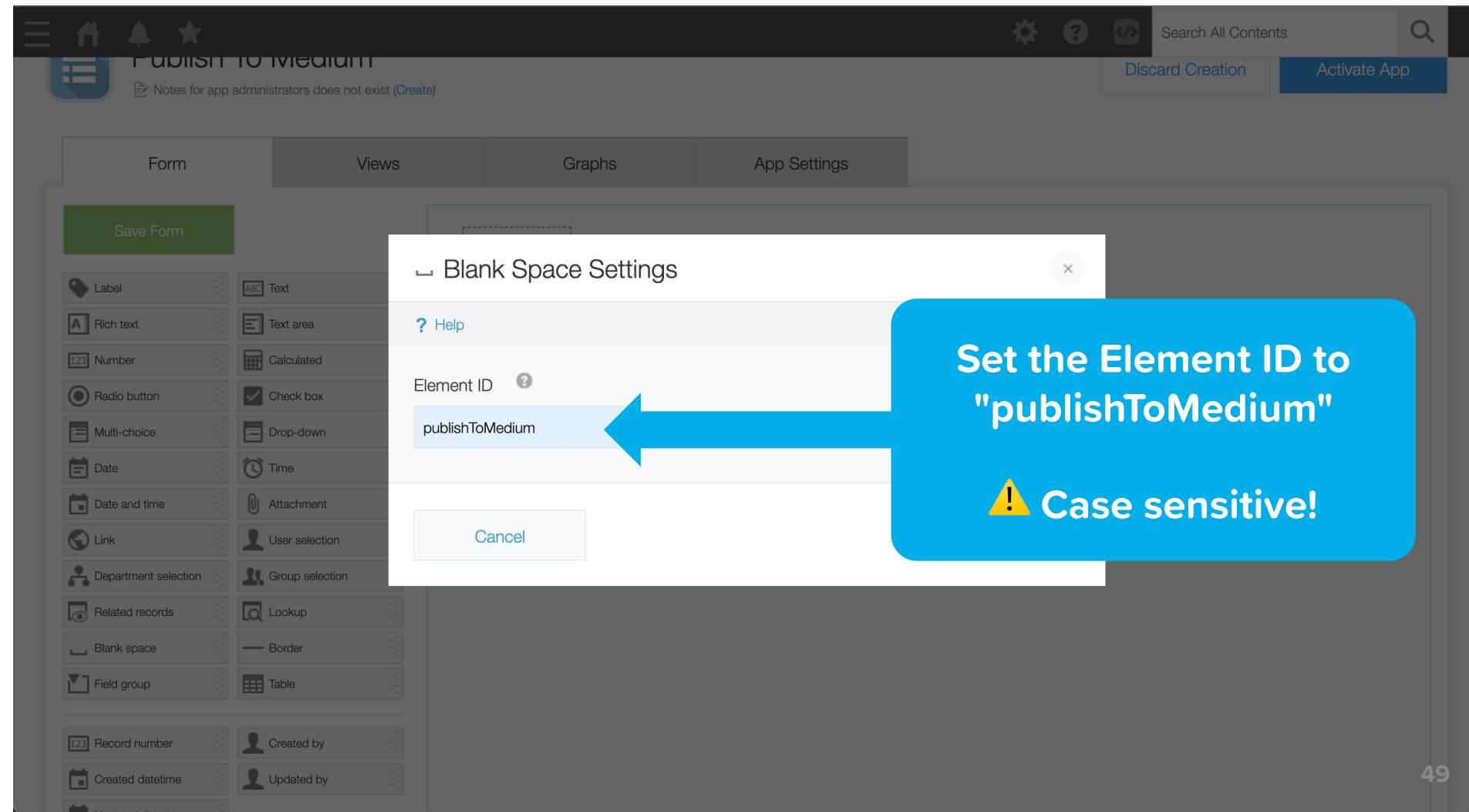


Blank Space's Gear > Settings

# Inside the Blank Space Settings

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

Edit the **Element ID**



Set the Element ID to  
"publishToMedium"

⚠ Case sensitive!

# Does Your App Look Like This?

We changed...

- Title
- 1x Text Field
- 1x Text Area Field
- 1x Blank Space

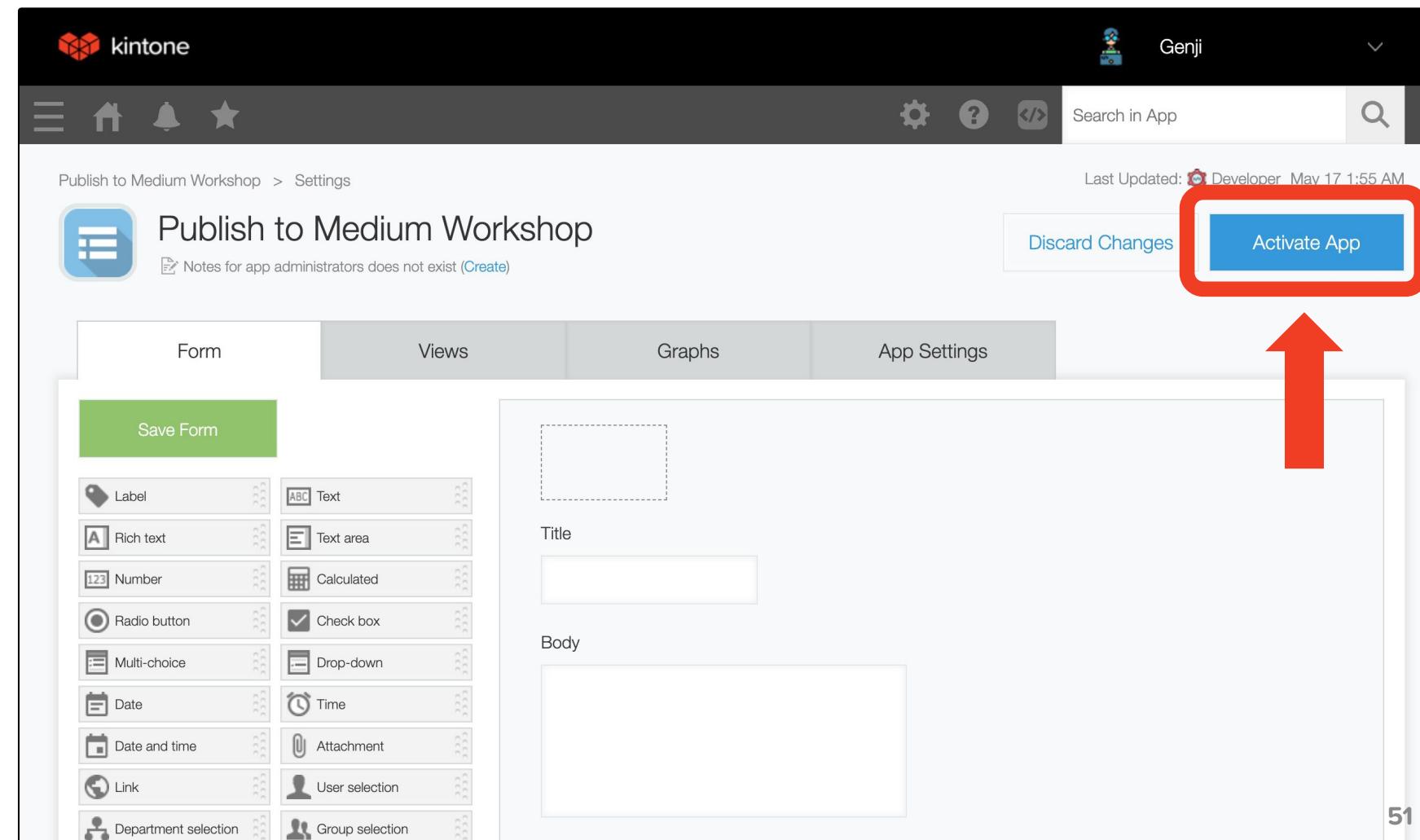
Set the fields'

- Names
- Field Codes

The screenshot shows the kintone app builder interface for a form titled "Publish to Medium Workshop". The interface includes a navigation bar with icons for Home, Bell, and Star, and a search bar. The main area has tabs for Form, Views, Graphs, and App Settings, with "App Settings" selected. On the left, there's a list of field types: Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User selection, and Group selection. A large green "Save Form" button is at the top left of the main area. To the right, there are sections for "Title" and "Body", each containing a text input field.

# 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

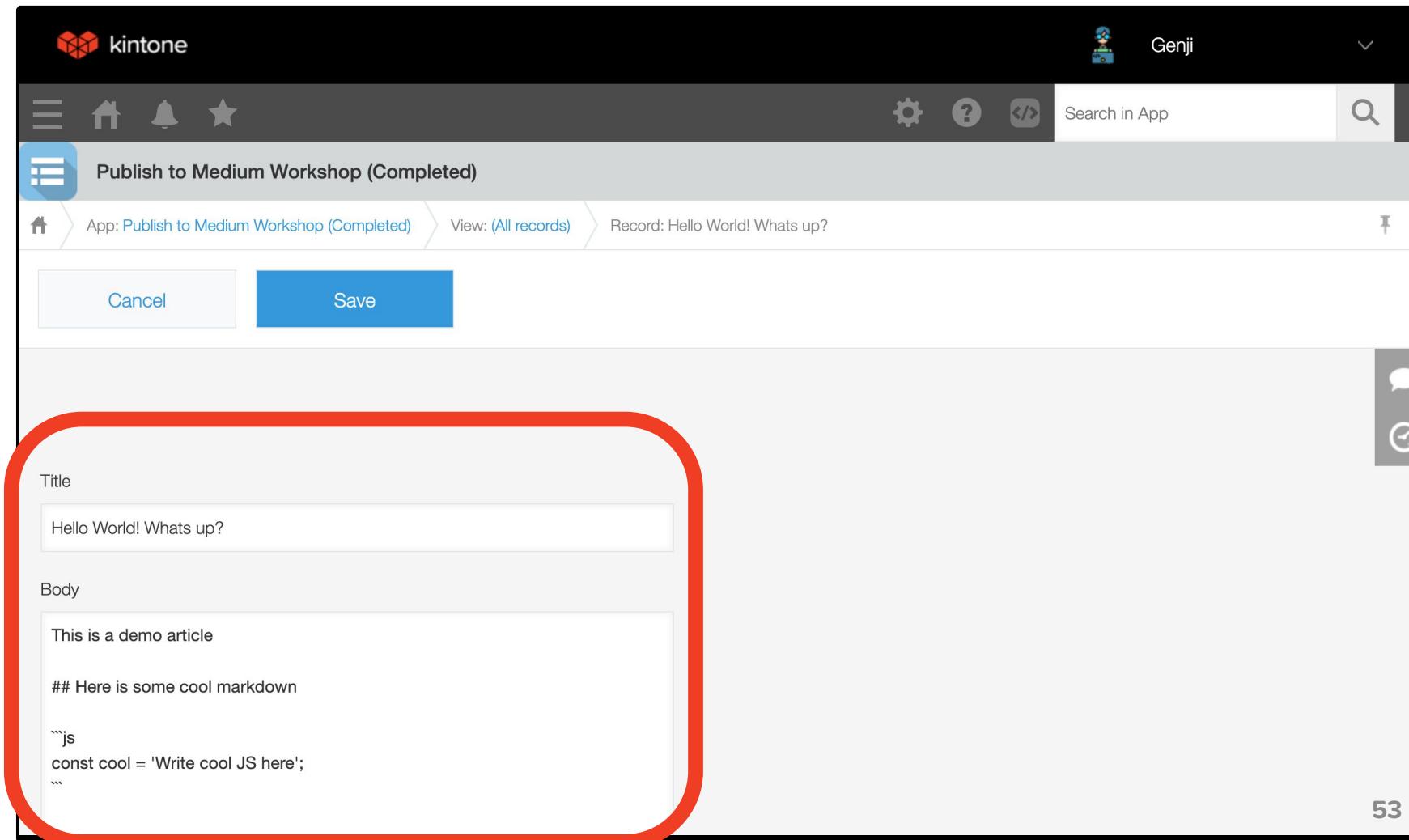
The screenshot shows the kintone application interface. At the top, there's a navigation bar with the kintone logo, a gear icon labeled 'Developer', and a search bar. Below the bar, the title 'Publish To Medium' is displayed, along with a breadcrumb trail 'App: Publish To Medium'. The main area contains a table with columns 'Record number', 'Title', and 'Body'. The first row shows '(None)' in all columns. On the far right of the table, there's a blue button with a white plus sign and the text 'New record'. This button is highlighted with a red box and a large red arrow pointing towards it from below.

https://devevents.kintone.com/k/40/edit

# 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

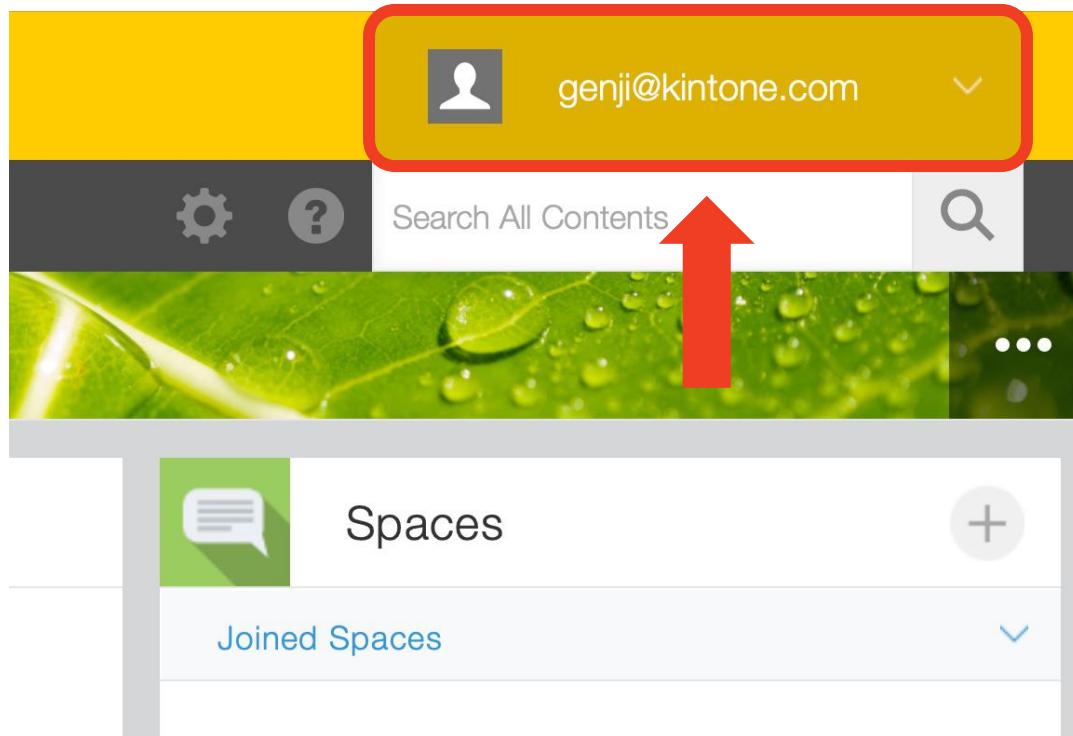
- **.env.example** file is used to verify that `.env` file is correctly configured
- **Duplicate** this file & name it "`.env`"

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

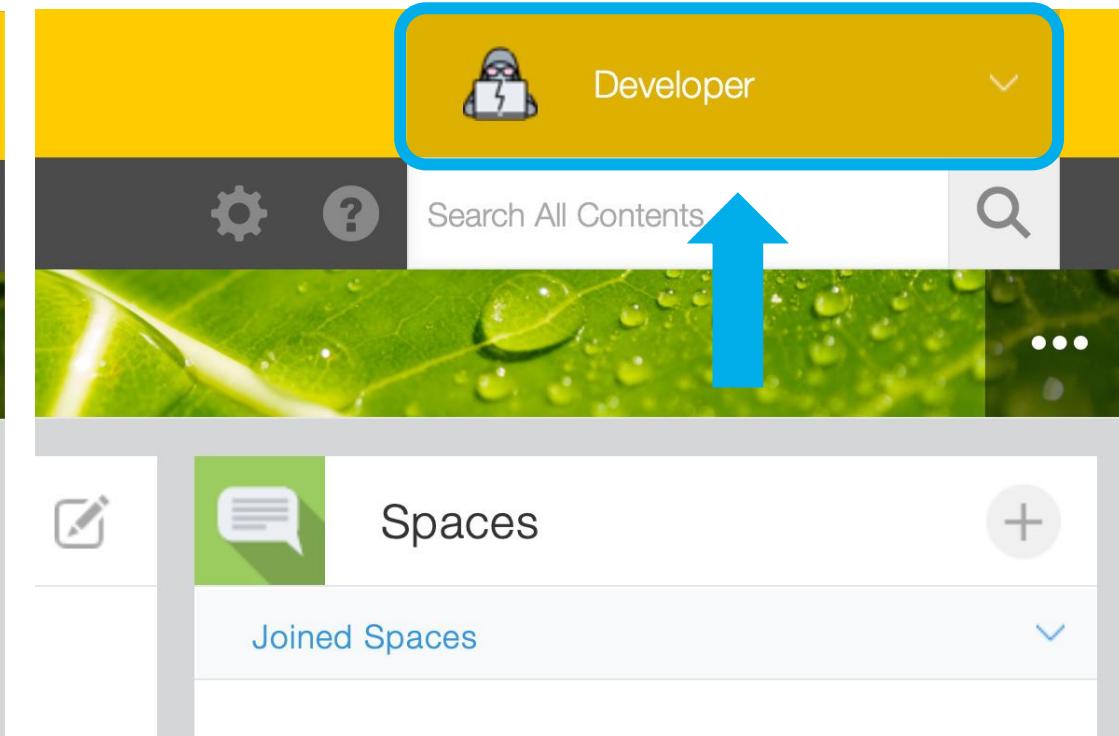
# Example .env file

```
KINTONE_BASE_URL="https://example.kintone.com"  
KINTONE_USERNAME="example@gmail.com"  
KINTONE_PASSWORD="ILoveKintone!"  
VITE_AUTHOR_ID="1a2b3c45..."  
VITE_API_TOKEN="09876edcba5..."
```

# Where to get the Kintone Username?



**Default: Email address**

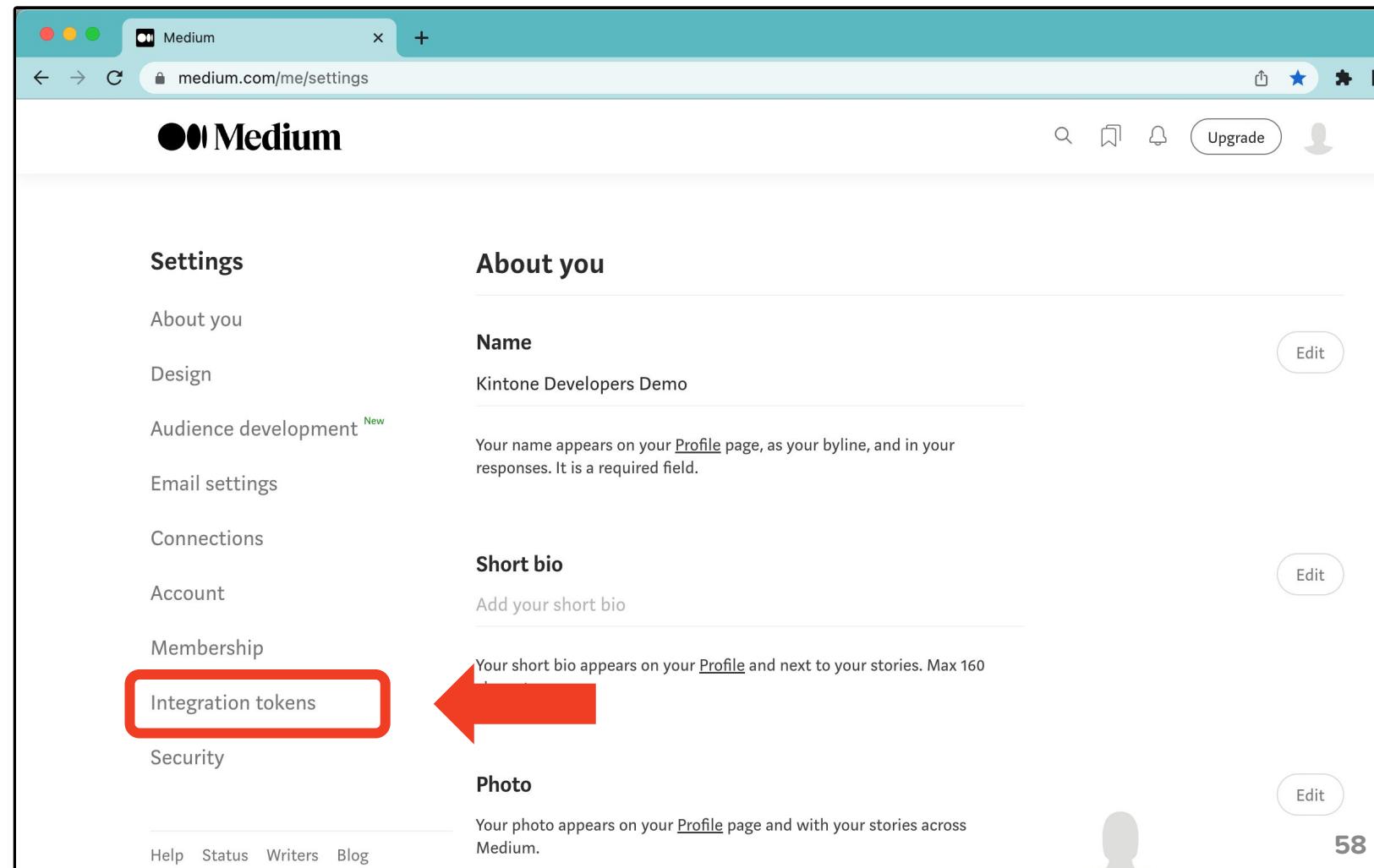


**If modified: Display Name**

# Medium's API Token?

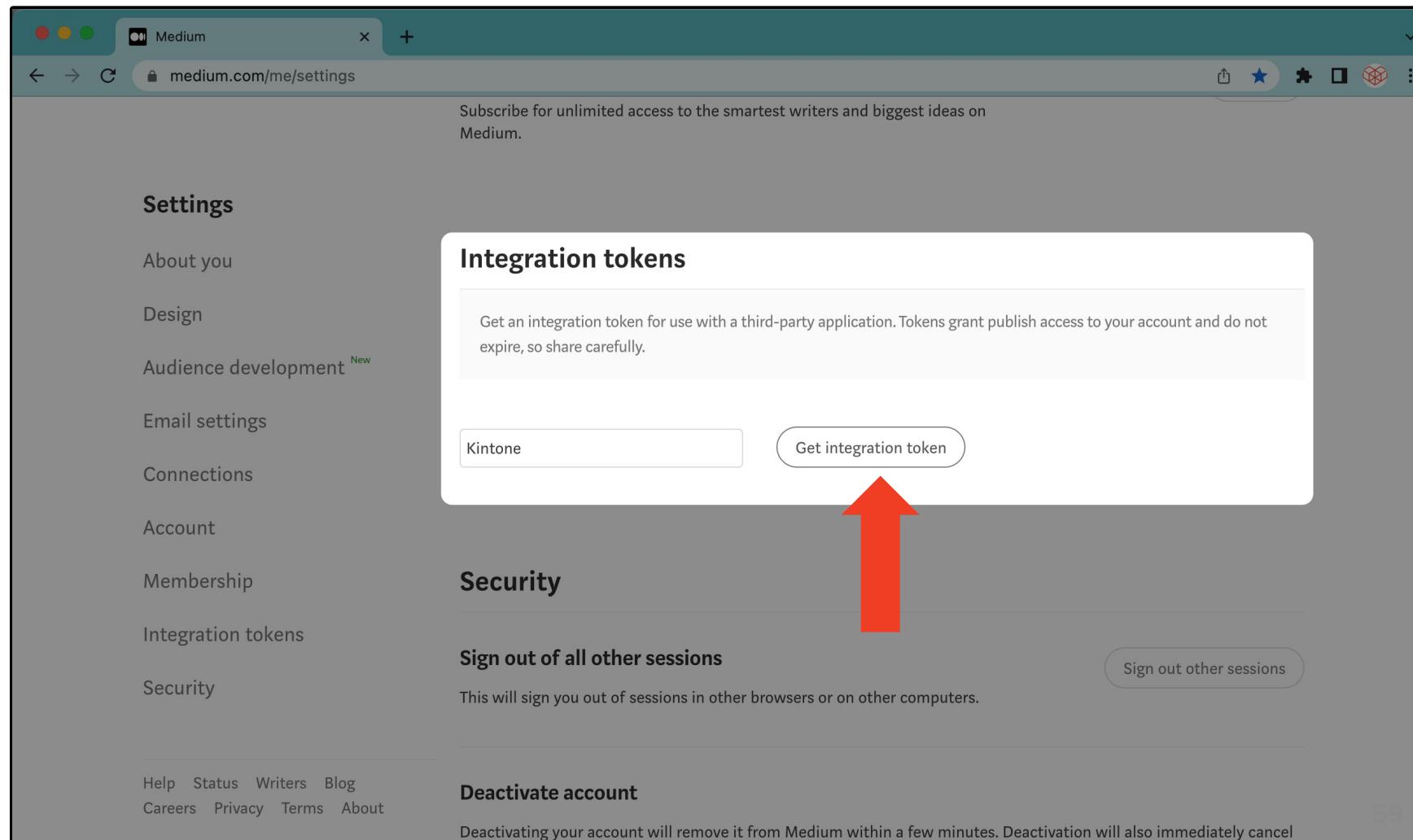
Go to Medium's  
Account Settings Page:  
[medium.com/me/ settings](https://medium.com/me/settings)

Click on  
Integration tokens



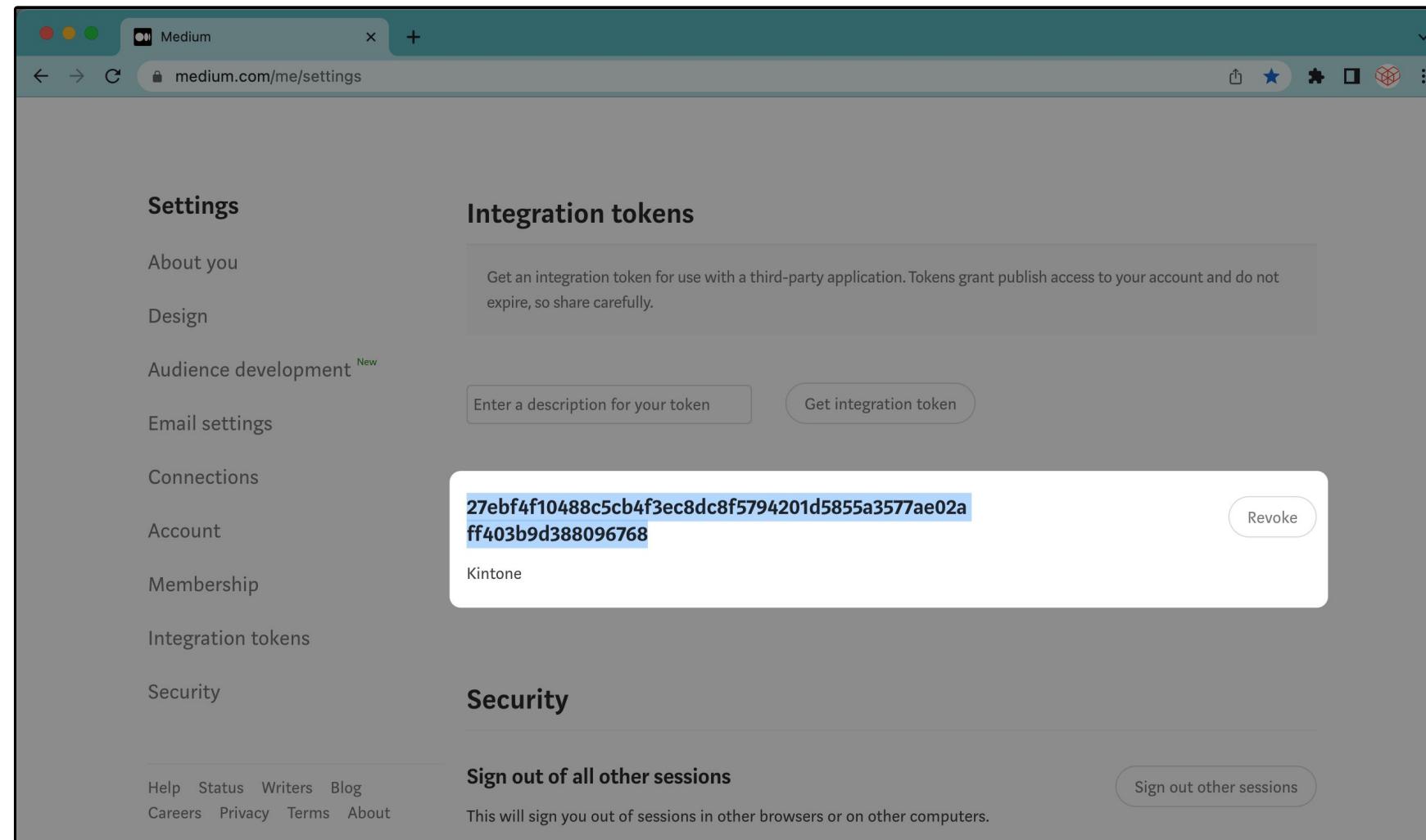
# Medium's API Token?

Name the token  
& click  
**Get integration  
token**  
button



# Medium's API Token?

Save the  
Medium's API Token  
in the  
.env file  
as  
**VITE\_API\_TOKEN**



# Medium's Author ID?

Open  
curl\_authorID.txt

Swap  
**VITE\_API\_TOKEN**  
with your Medium's  
API Token

Then run the curl  
command in your  
terminal

**Template:**

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

**Example:**

```
curl -H "Authorization: Bearer  
2d6755756a12c743b4312f85fad0246a7953c68b78..."  
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\_AUTHOR\_ID

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

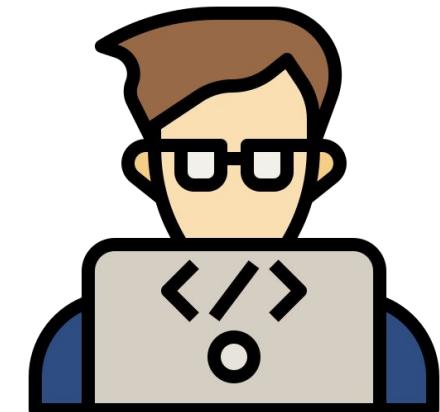
# Go inside the `customize-manifest.json` file

- `customize-manifest.json` file is Kintone Customize Uploader's configuration file
- If this is NOT your first Kintone App, replace the **1** with your App's ID

```
{  
  "app": "1", ←  
  "scope": "ALL",  
  "desktop": {  
    "js": ["dist/KintoneCustomization.js"],  
    "css": []  
  },  
  ...  
}
```

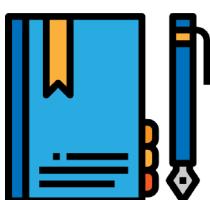
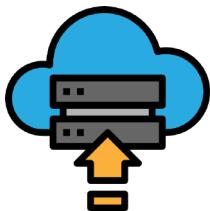
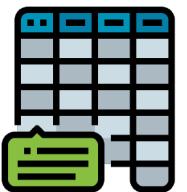
# Time to Explore the Code

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
- Use Medium API to add images in the article



# Where Can I Get Help?

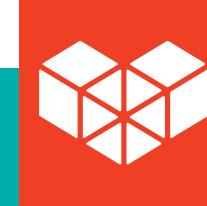
If you're stuck, post your question & code on the

**Kintone Developer  
Forum**

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

The screenshot shows the Kintone Developer Forum homepage. At the top, there's a navigation bar with the Kintone logo, "developer forum", "Developer Site", "Sign Up", "Log In", a search icon, and a menu icon. Below the navigation, there are buttons for "all categories" and "all tags", and links to "Latest" and "Top" posts. The main content area is divided into three columns: "Category", "Topics", and "Latest". The "Announcements" category has 4 topics per month and a description about posting news. The "General" category has 9 topics per month and a description about asking for help with APIs or bugs. The "Site Feedback" category has 0 topics. To the right, there's a list of recent posts. The first post is by a user named "japan" about a TypeScript workshop, posted 9 days ago. The second post is a welcome message from the forum, posted 15 days ago. The third post is about changing unit measures in Number fields, posted 5 hours ago.

Category	Topics	Latest
Announcements	4 / month	{Japan} TypeScript x VITE x Medium API Workshop!
General	9 / month	Welcome to Discourse
Site Feedback	0	How to make the unit of measure of a Number field automatically change depending on the Drop-



Any  
Questions?

kintone.dev

# Thank You!



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for our **upcoming workshops!**



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# 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!**



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