



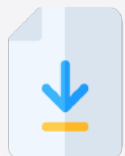
Welcome to the Medium x Kintone Workshop!

 Recording will
be on YouTube

Download Code & Slides

https://bit.ly/kdp_to_medium

git clone the GitHub
Repo



Get Your Kintone Subdomain

Developer License
Registration Form

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://github.com/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
```

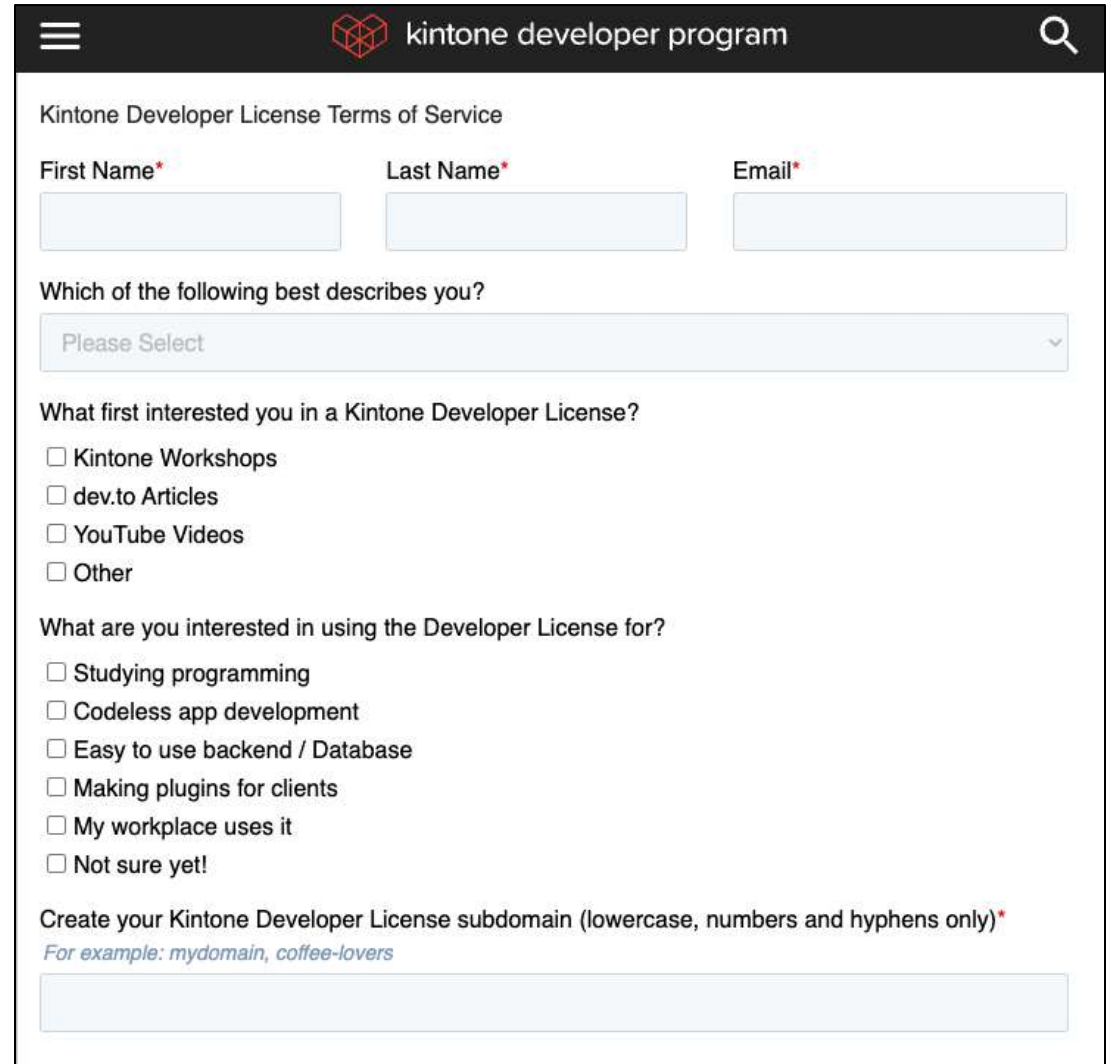
```
npm install
```

```
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 the 'Kintone Developer License Terms of Service' form. It includes input fields for 'First Name*', 'Last Name*', and 'Email*'. Below these is a dropdown menu labeled 'Which of the following best describes you?' with the option 'Please Select'. There are two sections of checkboxes: 'What first interested you in a Kintone Developer License?' (with options: Kintone Workshops, dev.to Articles, YouTube Videos, Other) and 'What are you interested in using the Developer License for?' (with options: Studying programming, Codeless app development, Easy to use backend / Database, Making plugins for clients, My workplace uses it, Not sure yet!). At the bottom, there is a text input field for 'Create your Kintone Developer License subdomain (lowercase, numbers and hyphens only)*' with an example: '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 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!

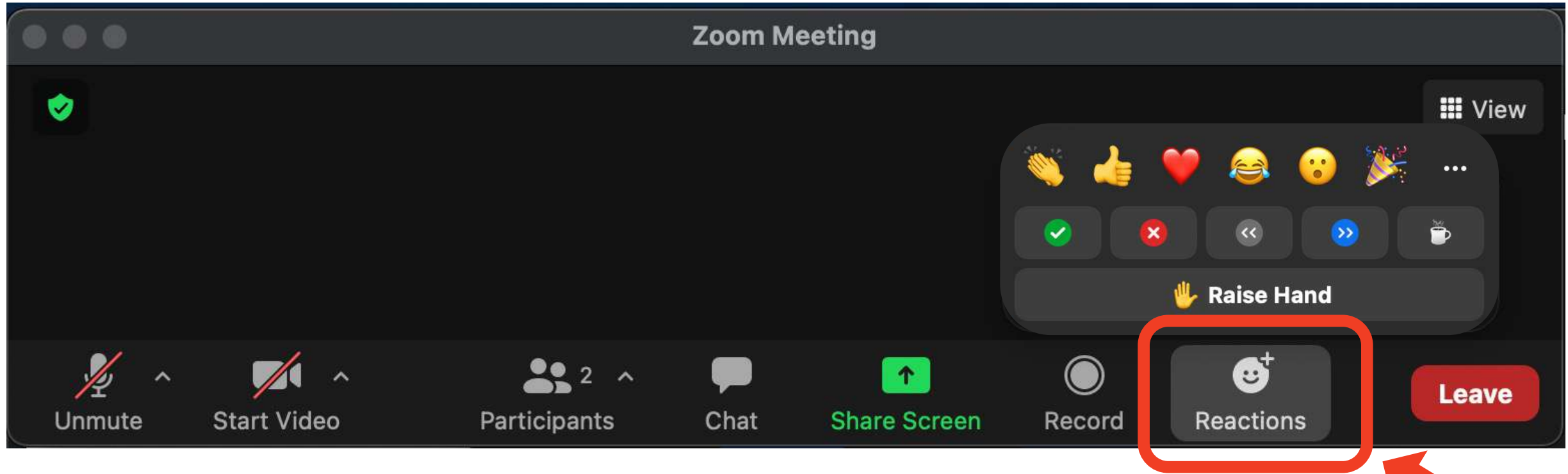
Errors related to .env

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

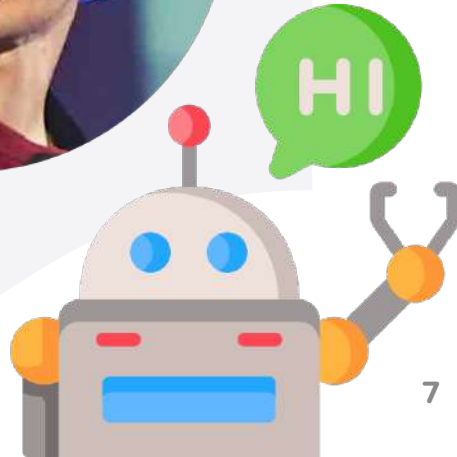
Nim



Genji



Will



●●● Medium

API Tutorial

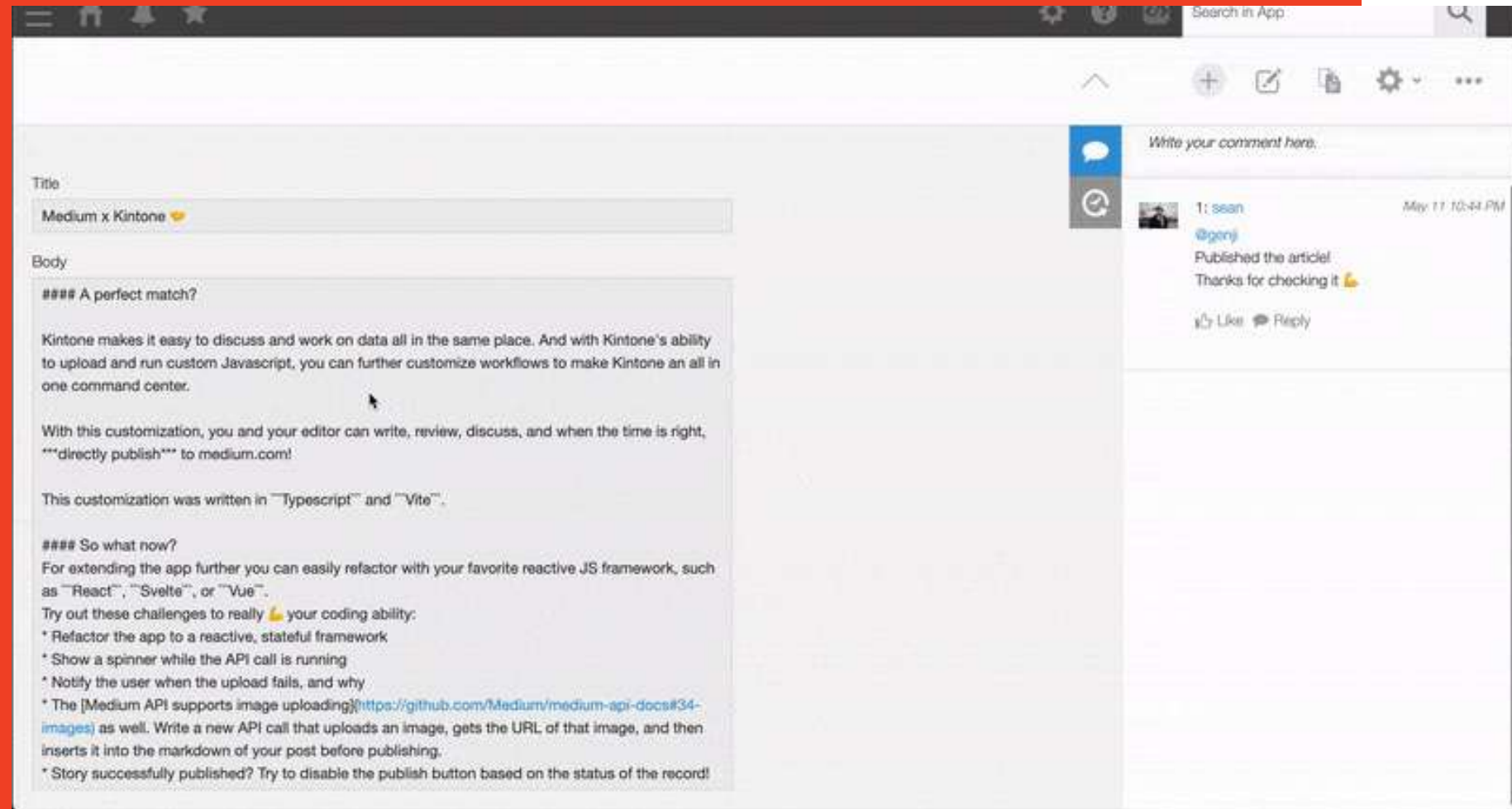
Free Online Workshop

May 19th

@ 6pm PST



What We Will Make Today





Workshop Overview

Project Setup

Project Overview
Install Dependencies

Setup Accounts and Tokens

Create a Web Database
Get our medium.com
account's API Token
Use the API token to get
our medium.com Author
ID

POST API Build

Format API Data
Create a button on your
Kintone App
Connect the button and
publish!

Git Clone the Repo

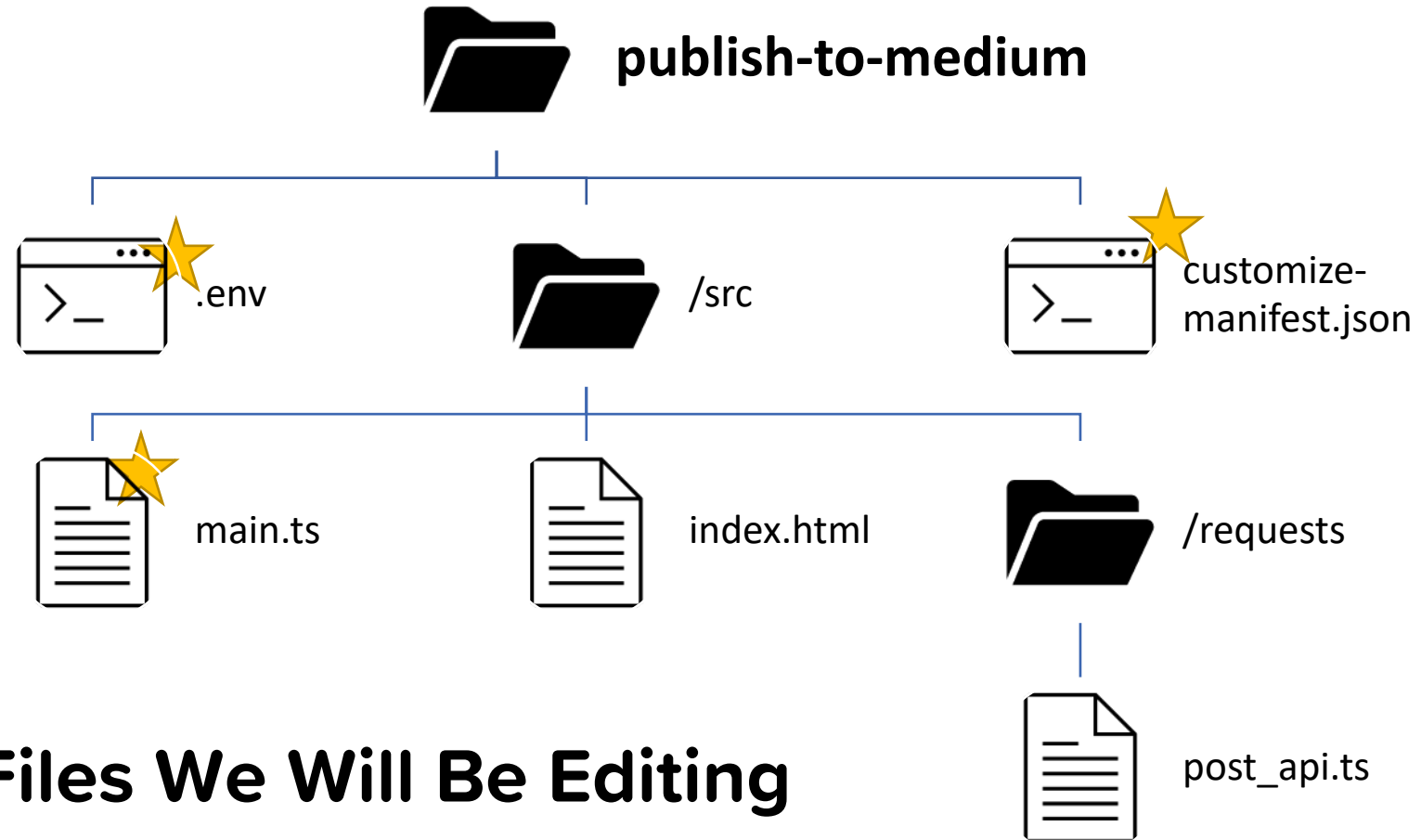
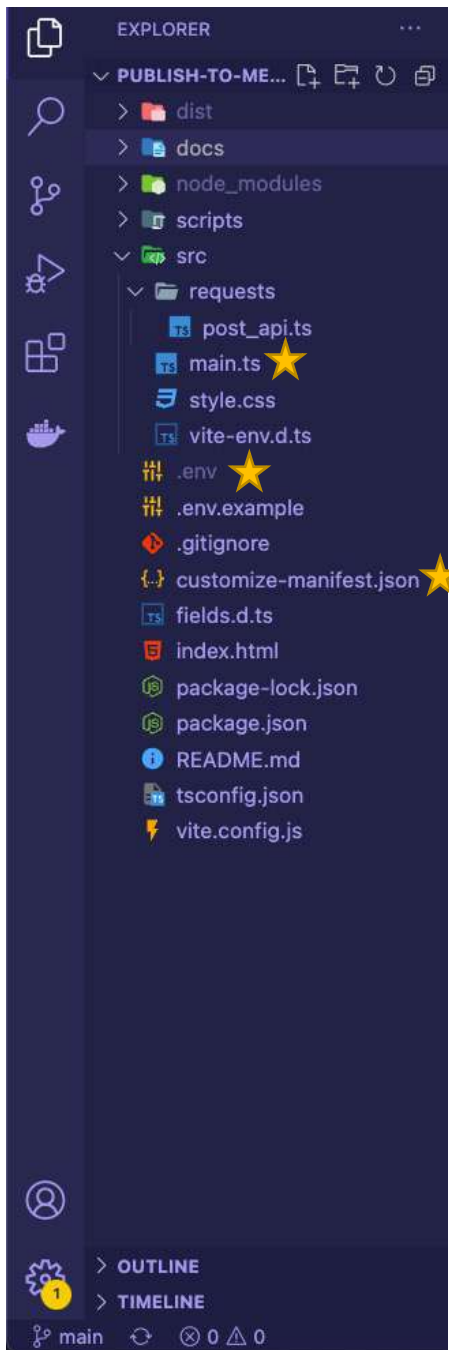
First, let's clone the [sean-kintone/publish-to-medium](https://github.com/sean-kintone/publish-to-medium) repo and go inside the folder.

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

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

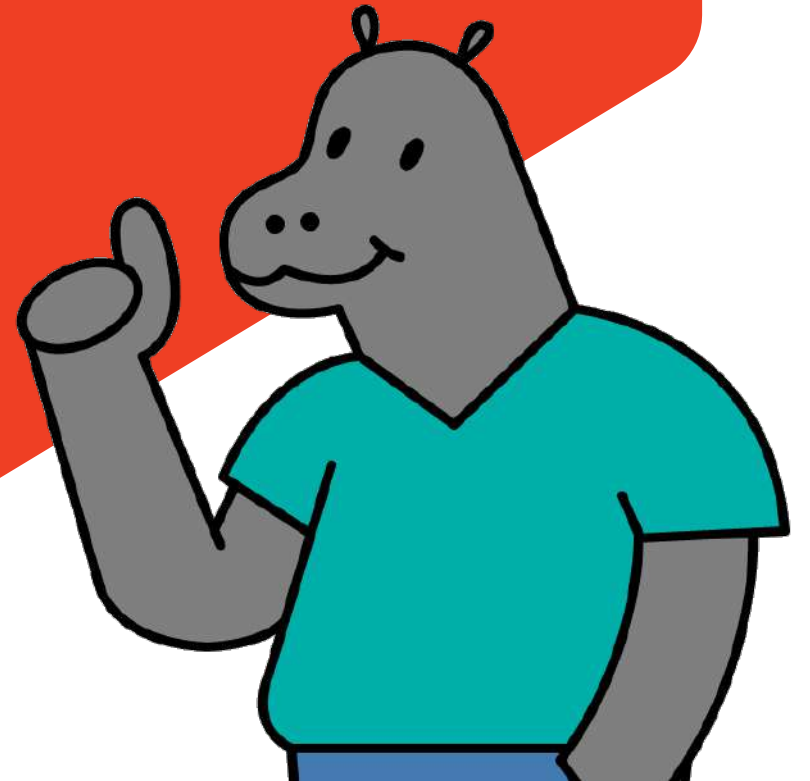
Run these commands
from your terminal

Overview of the Repo



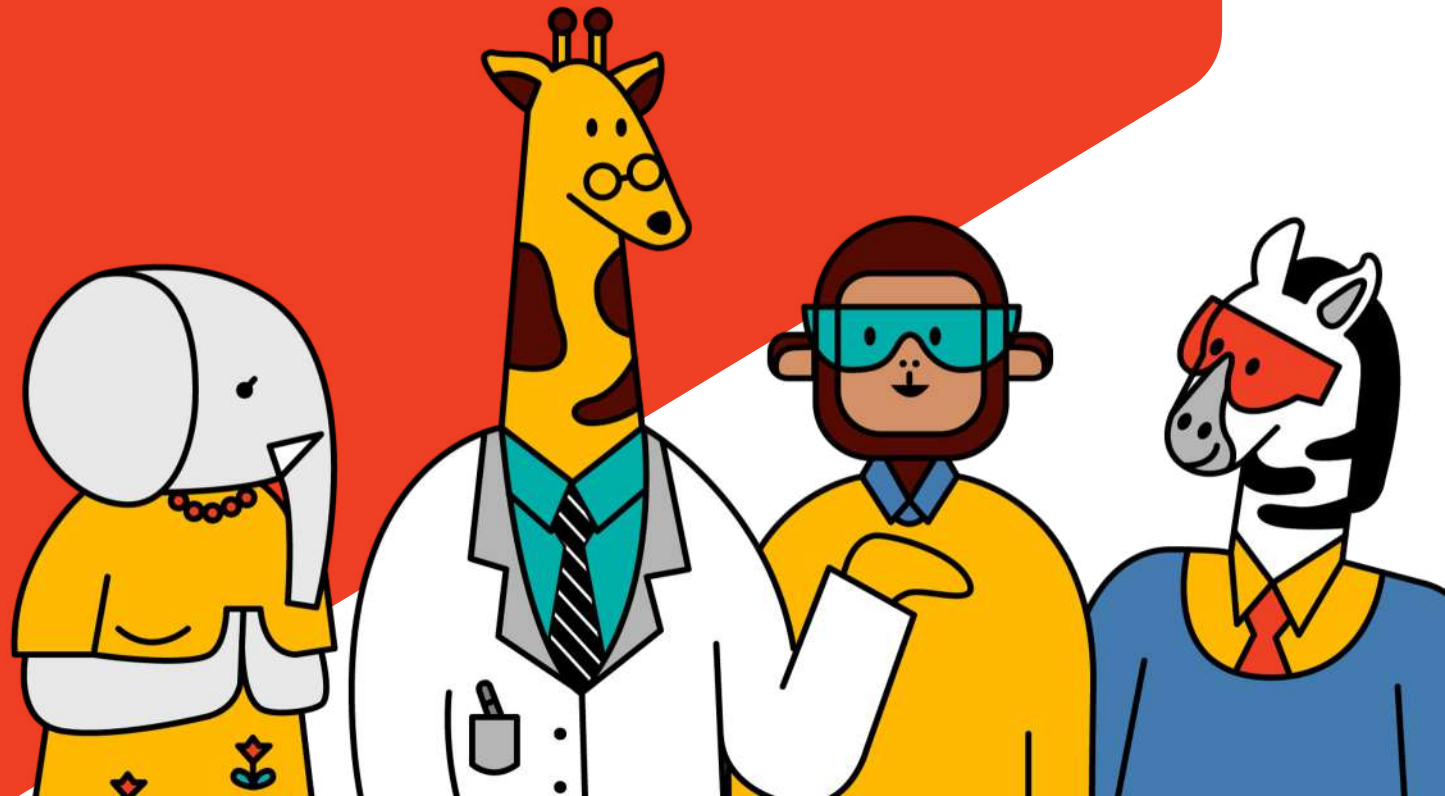
Files We Will Be Editing

Quick check-in with Zoom polling

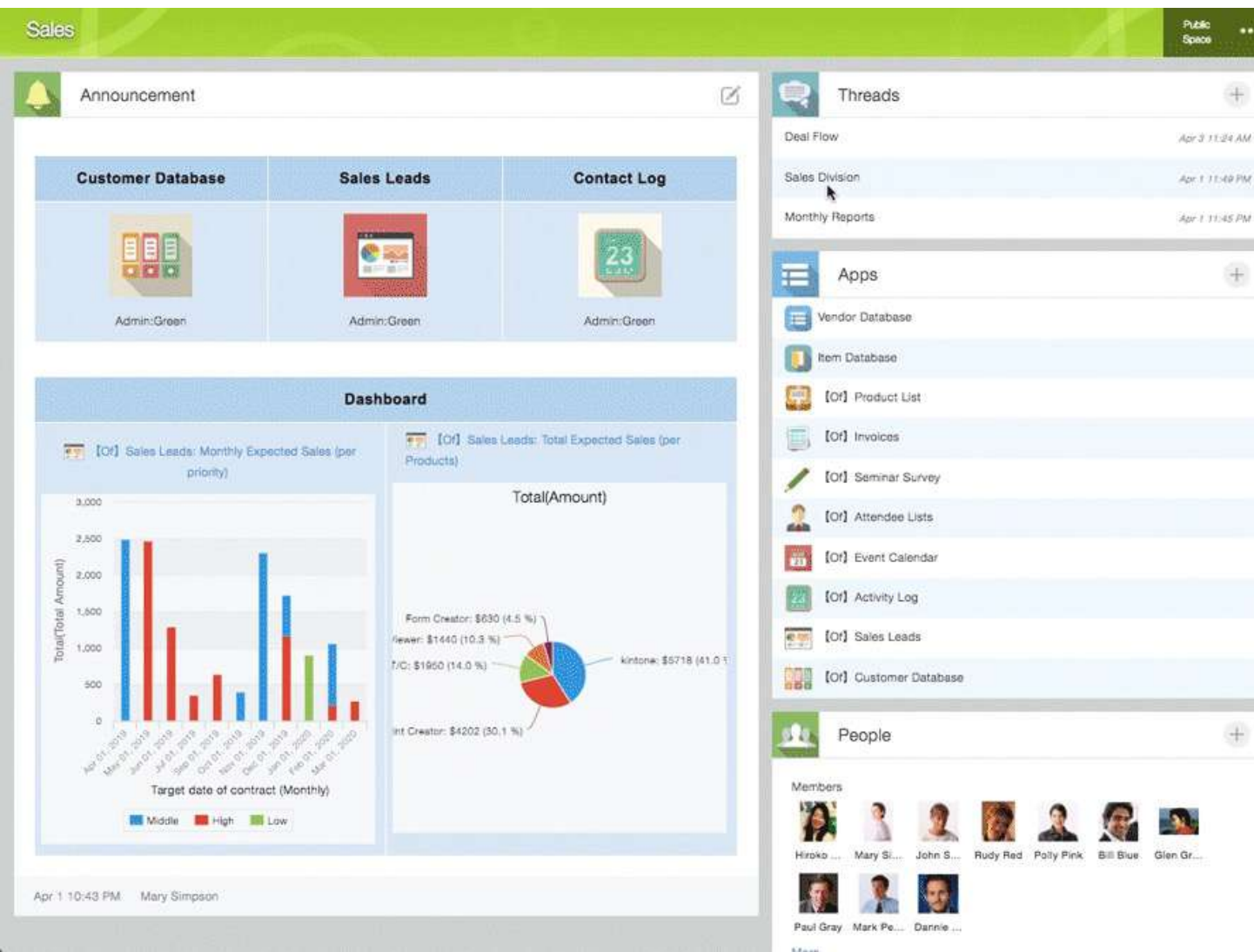


What is Kintone?

Built for teamwork,
designed by you



What is Kintone?

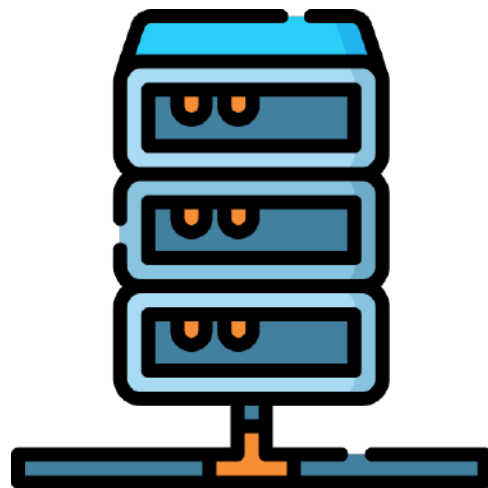


Kintone is a **no-code / low-code** cloud platform for teams to easily share and **collaborate** on their **data** efficiently.

Where Kintone is Special!



kintone



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



Missing - Unified Communication

Big Picture
Where did that message go?

Data Silos

Information is not being shared effectively

Scattered Communication

Unclear where the conversation is happening

What is Possible?

Remove the Friction
Keep the conversation
where the data lives

Where
Data
Lives

Developer Community

Space: Developer Community App: REST API Docs View: (All records) Record: Kintone REST API

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

Table

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

Where
Communication
Lives

Write your comment here.

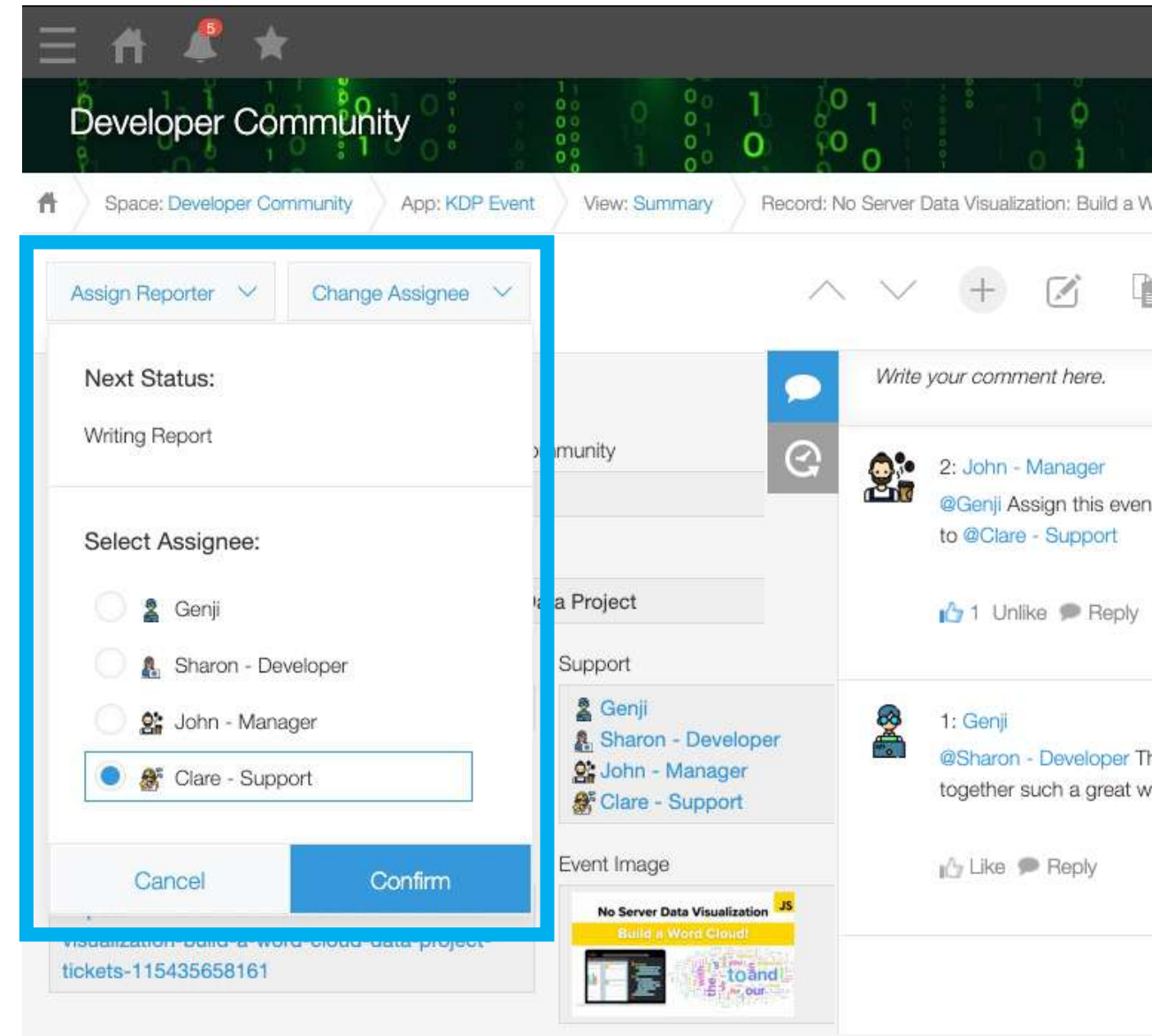
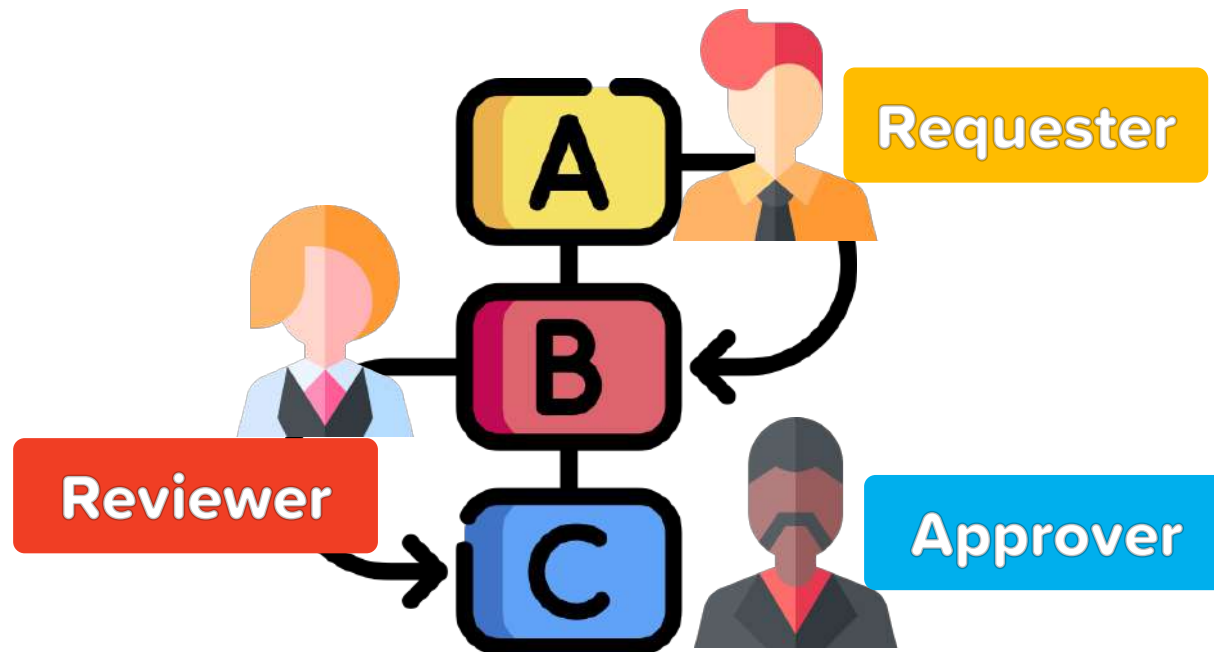
3: Clare - Support Aug 27, 2020 1:29 AM
@Sharon - Developer @Genji
Done!
Like Reply

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

Workflow

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



Kintone Apps

Shared To Do

App: Shared To Do

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.

My To Do

Records 1 - 5 of 5

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

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

[Discard Changes](#) [Update App](#)

Form Views Graphs App Settings

Save Form

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

Leads & Sales

Lead Title Sales Representative

▼ Contact Info

Company Name Website

Contact Name Job Title

Email Telephone Number

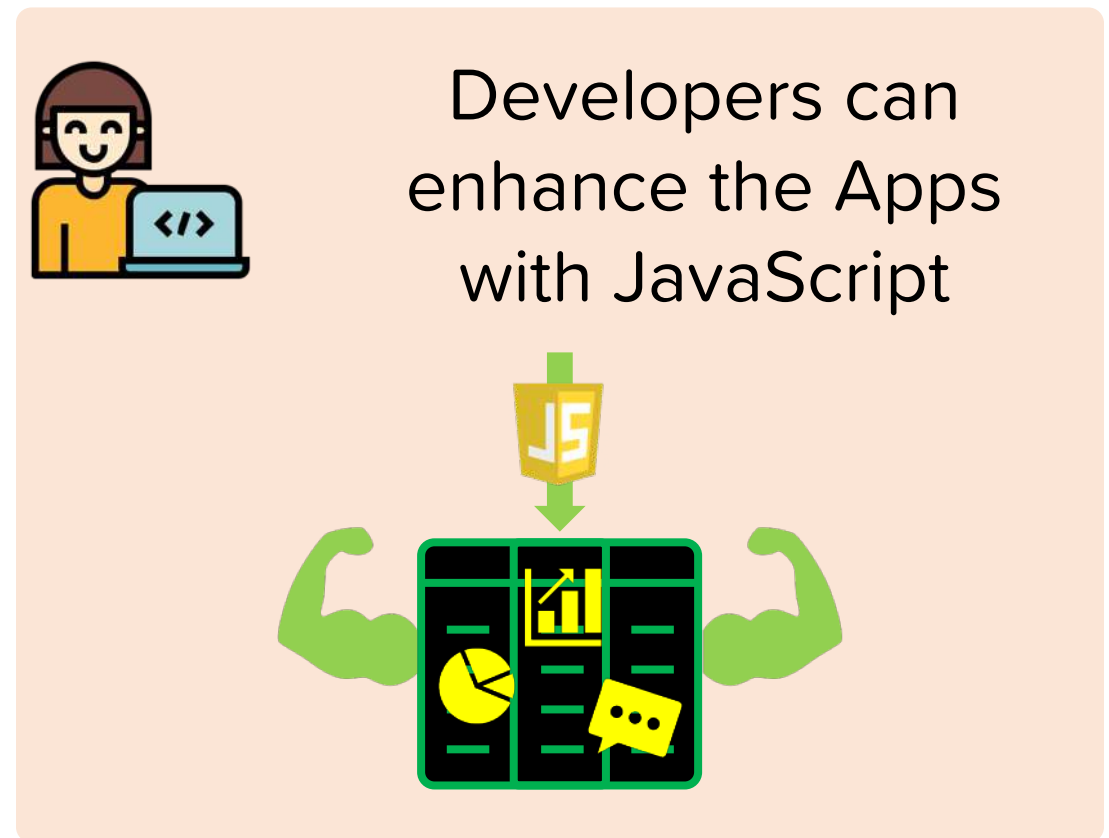
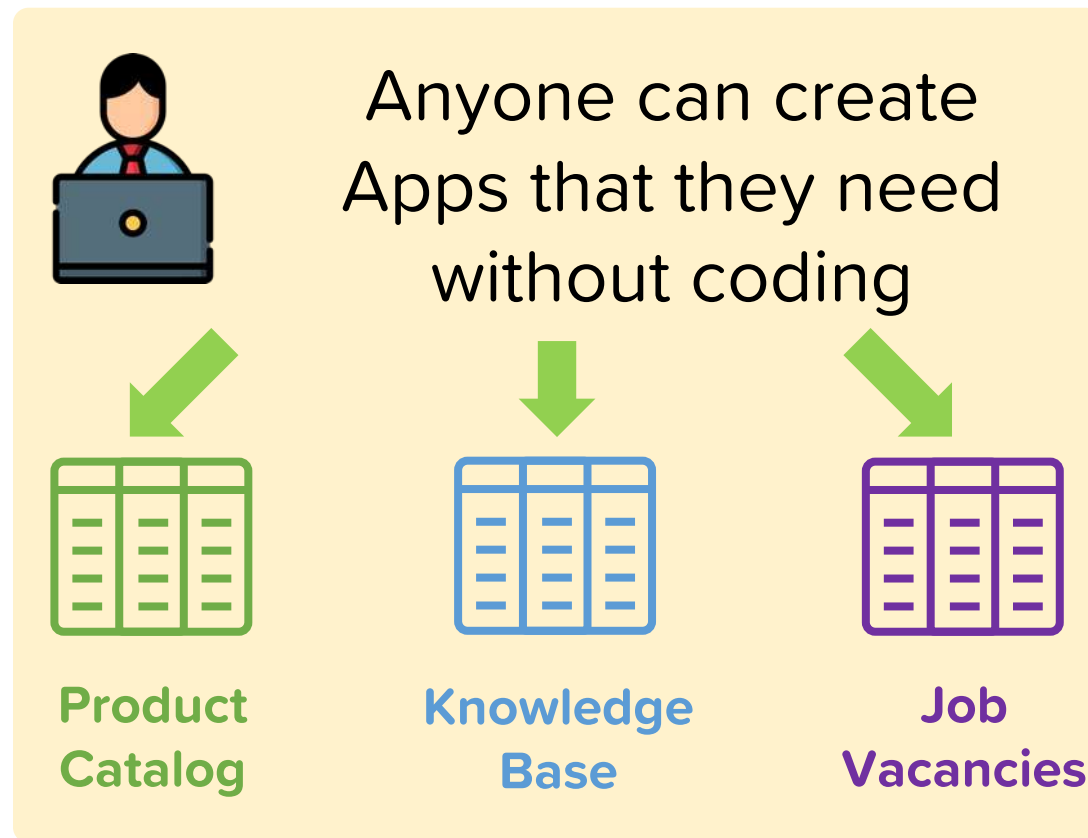
Product Name	Product ID	Unit Price	Quantity
--------------	------------	------------	----------

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!

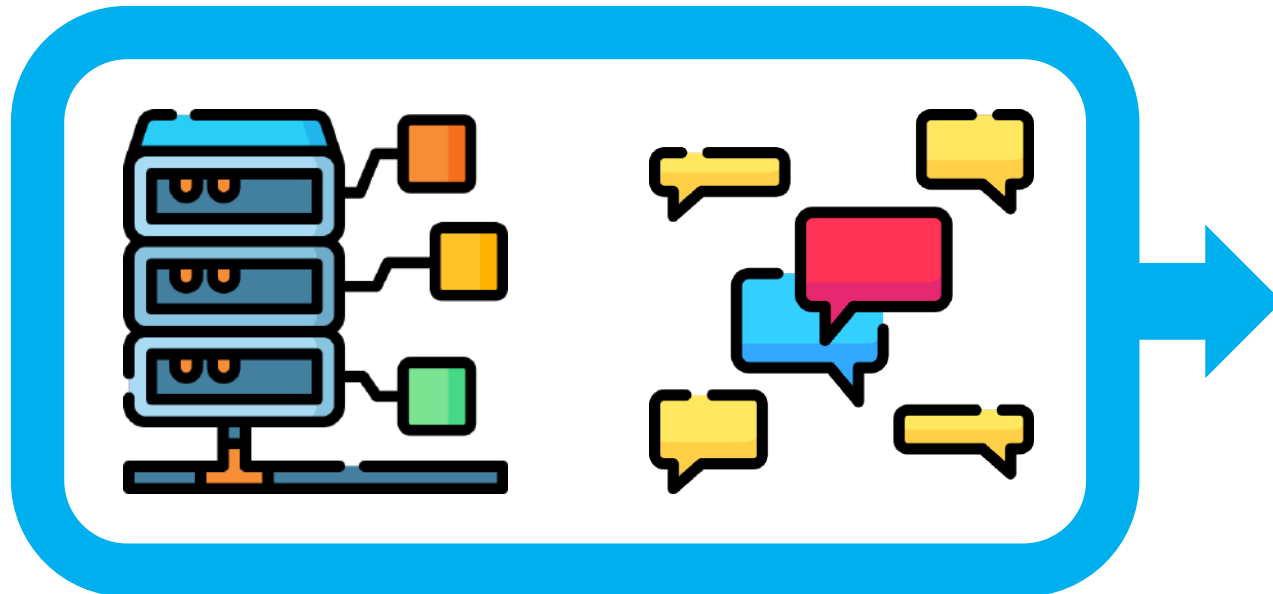
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

Data + Communication



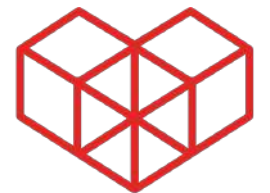
Insight



Action



How Developers Contribute

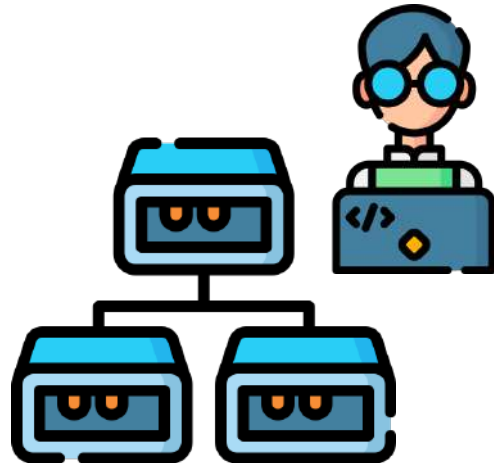


kintone
developer program

How Developers Contribute

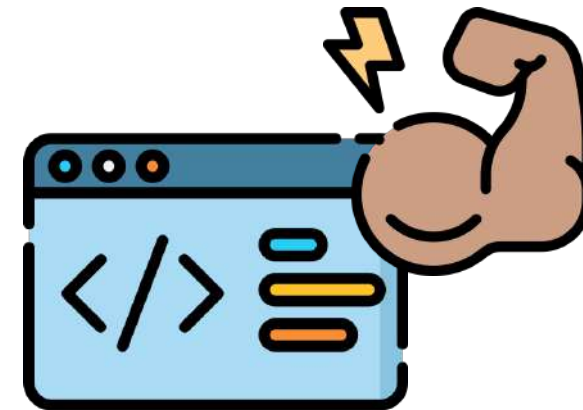
Command Center

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



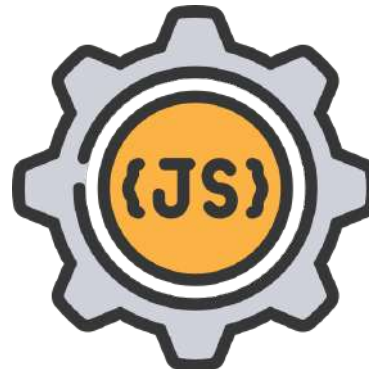
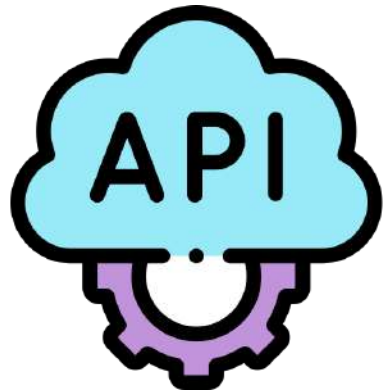
Enhancements

- Develop JavaScript customizations
- Build & share extensions



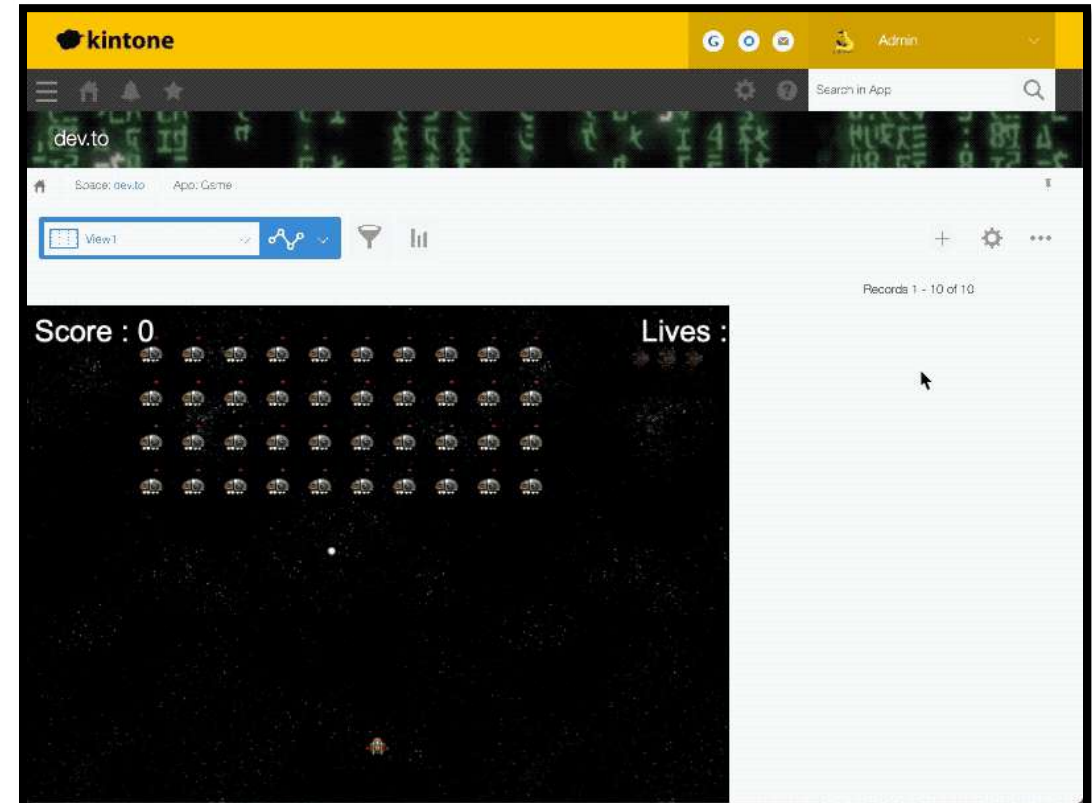
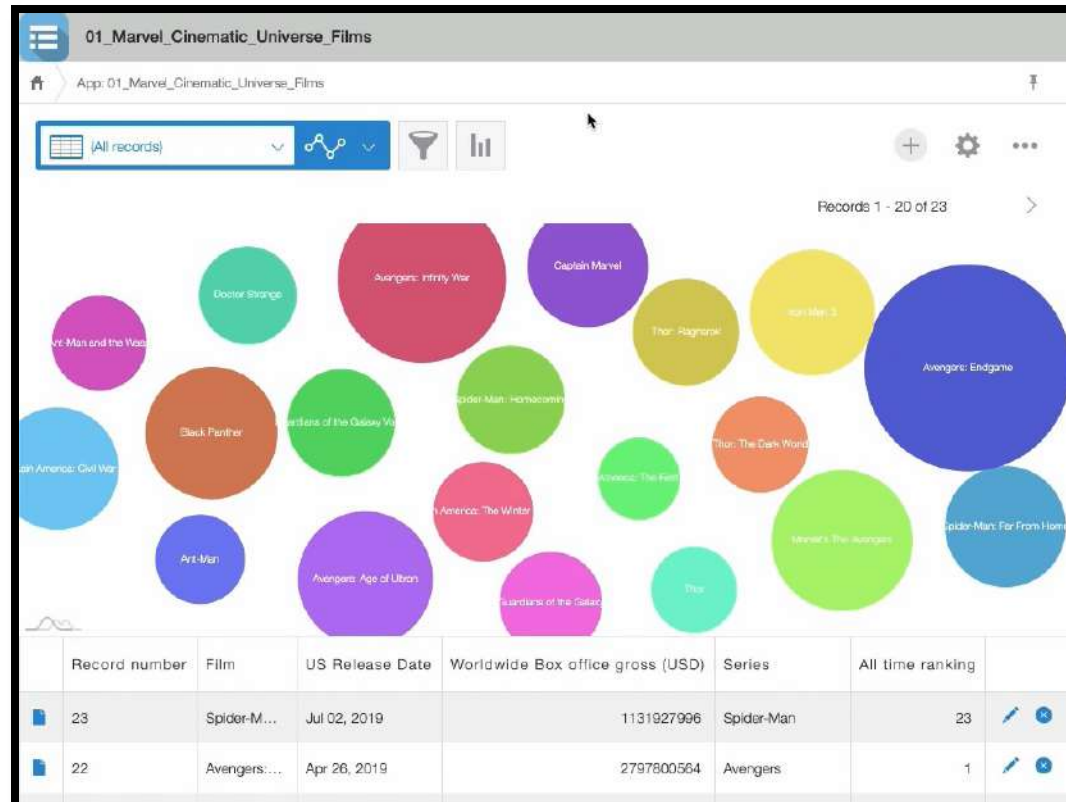
Tools Inside Kintone

- 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



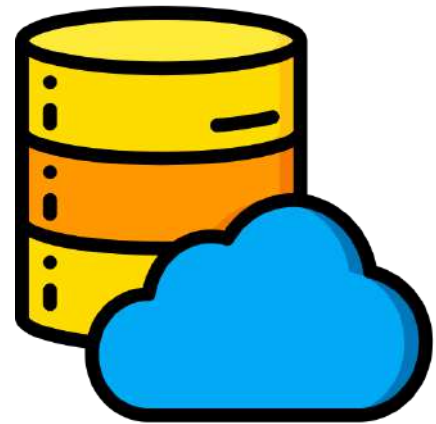
Consult with firms
on achieving
business goals



Develop Kintone
customizations for
customers

Let's Create a Kintone Database App

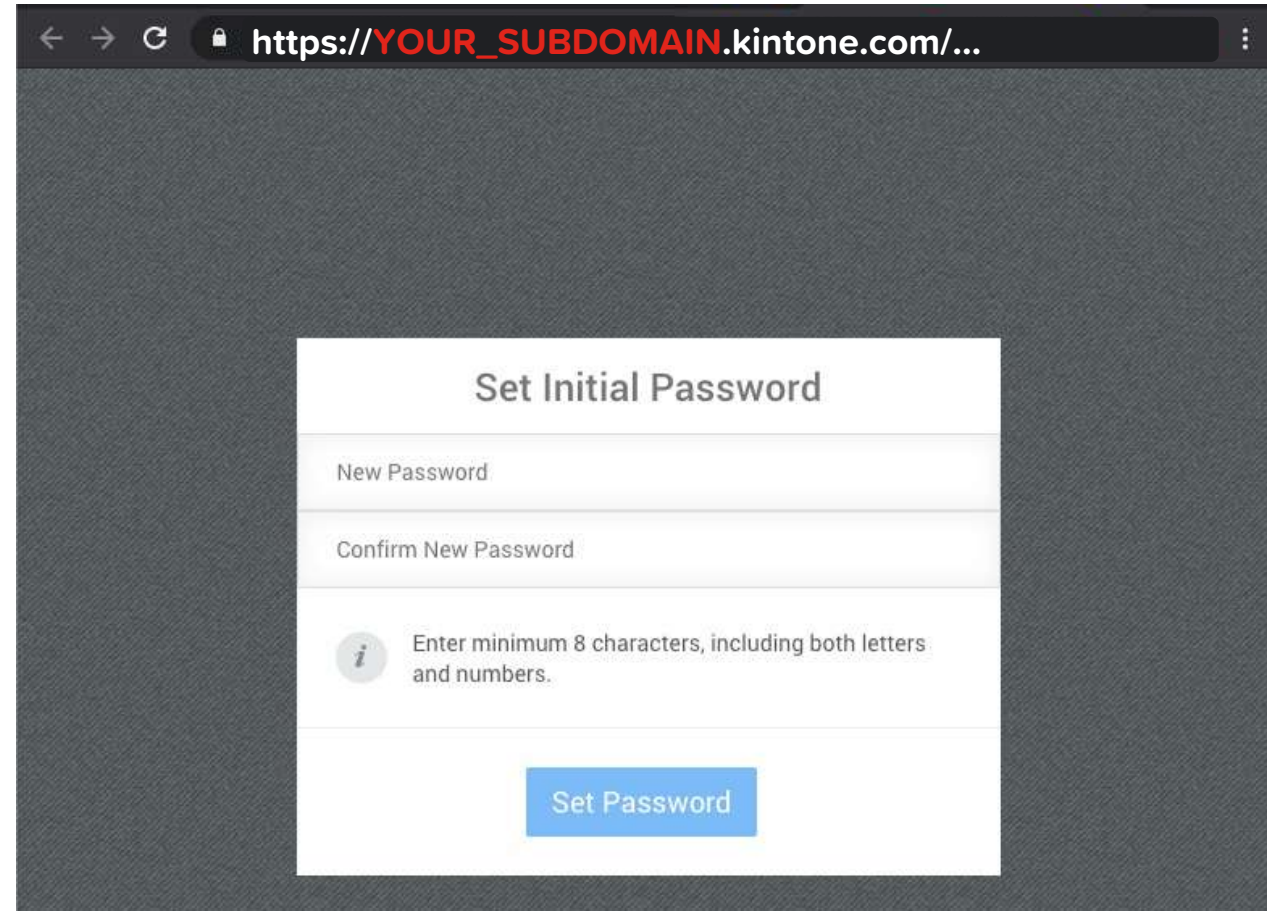
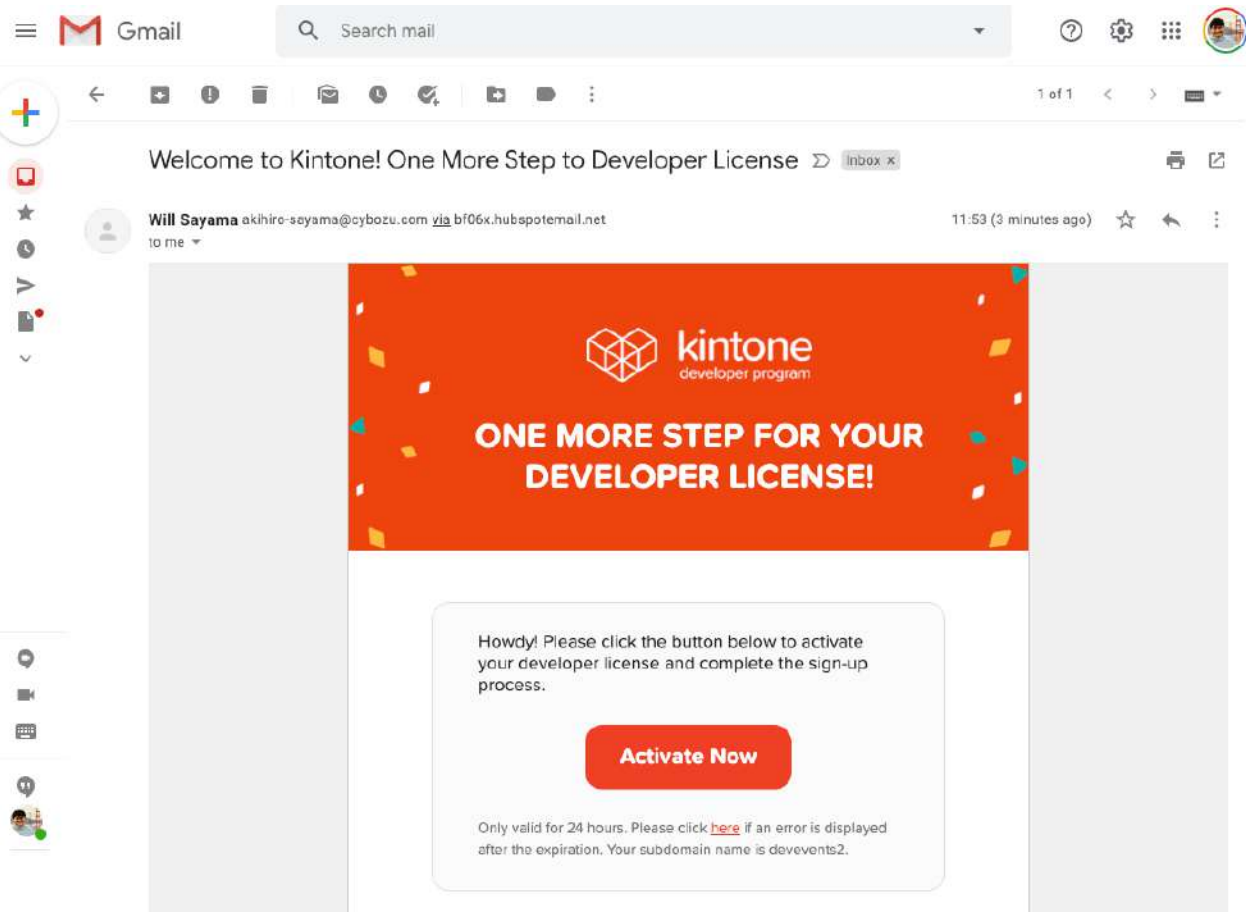
Step-By-Step Guide



Check Your Email

Welcome to Kintone! One More Step To...

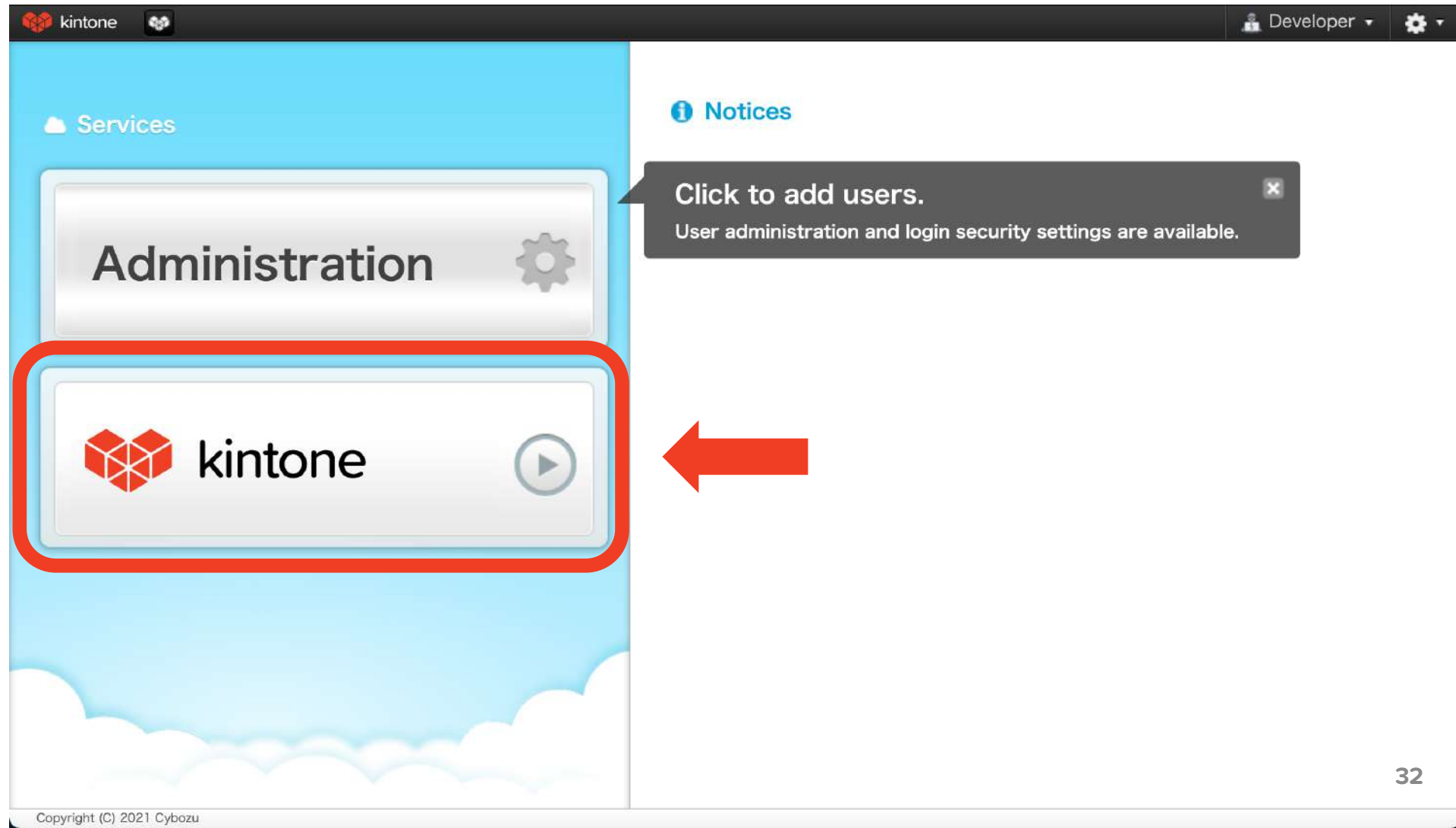
YOUR_SUBDOMAIN.kintone.com



Let's Log into Kintone

Click on Kintone button on the Left side

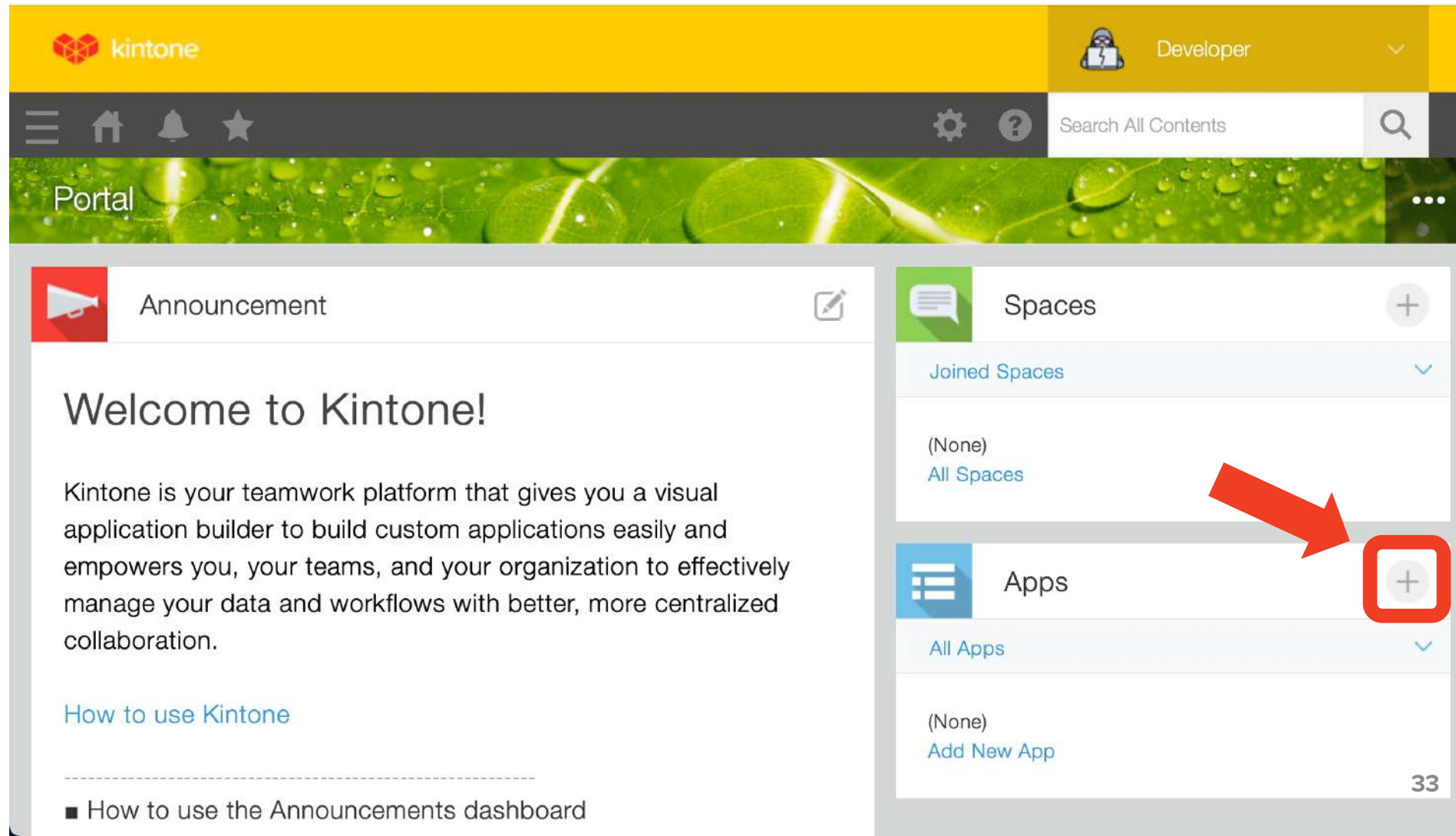
The email has the initial registration link & subdomain



Create a Kintone Database App

From the Portal
screen

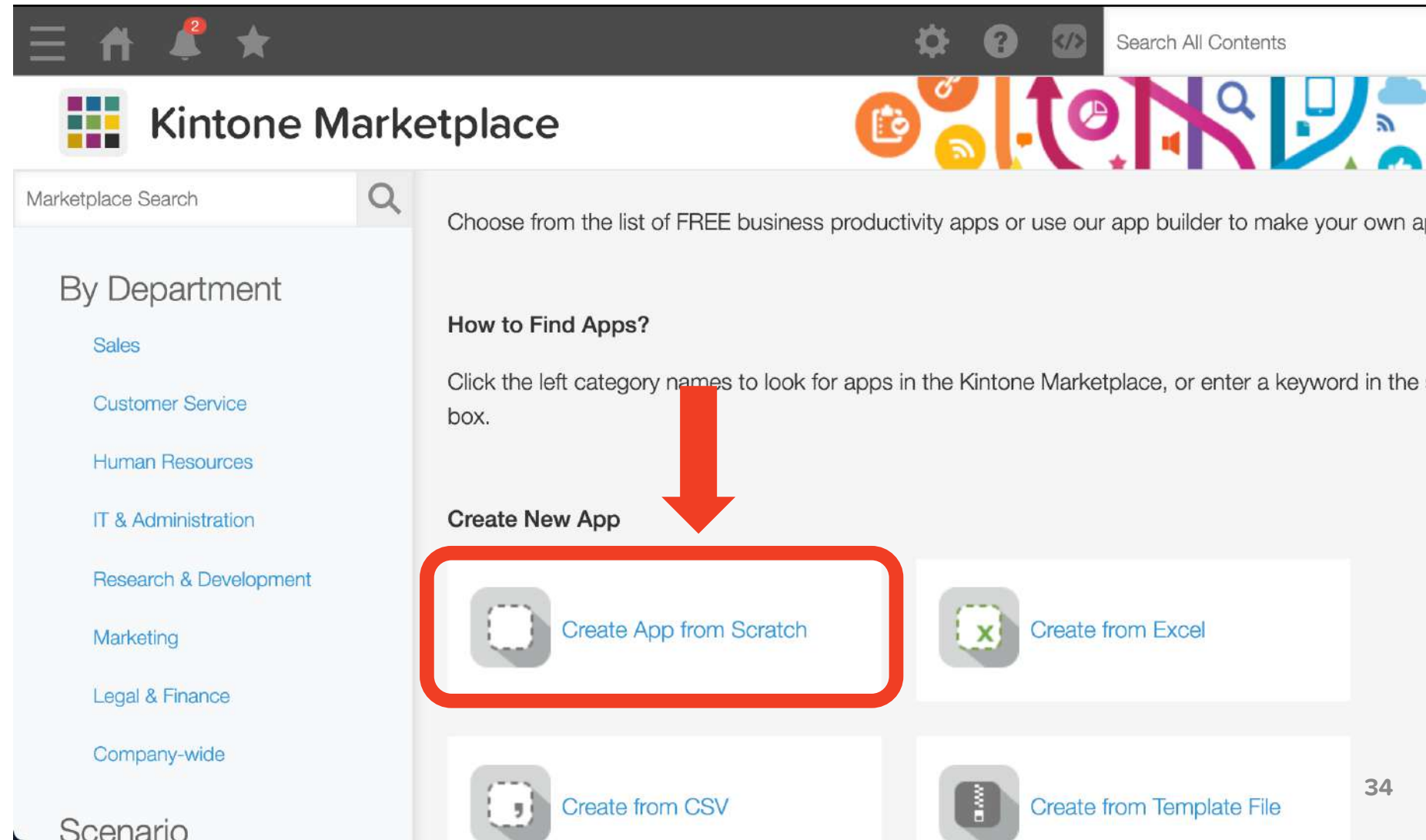
Click the
[+] button
on the
Right side



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
"Publish To
Medium"

Kintone Marketplace > New App > Settings

New App

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

[Discard Creation](#) [Activate App](#)

Form Views Graphs App Settings

Save Form

Label	Text
Rich text	Text area
Number	Calculated
Radio button	Check box
Multi-choice	Drop-down
Date	Time
Date and time	Attachment

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. The top navigation bar includes a search bar, a 'Discard Creation' button, and an 'Activate App' button. Below the navigation bar, there are tabs for 'Form', 'Views', 'Graphs', and 'App Settings'. The 'Form' tab is active, displaying a 'Save Form' button and a list of available fields. The fields are organized into two columns. The first column includes: Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Related records, Blank space, and Field group. The second column includes: Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User selection, Group selection, Lookup, and Tab. A red box highlights the 'Text' and 'Text area' fields in the second column. A blue box highlights the 'Blank space' field in the first column. A red arrow points from the 'Text' field to a dashed box in the middle area. A blue arrow points from the 'Blank space' field to a solid box in the middle area. The middle area also contains a 'Text area' field. To the right of the middle area, there is a list of required fields: 1x Text field, 1x Text Area, and 1x Blank Space.

1x Text field

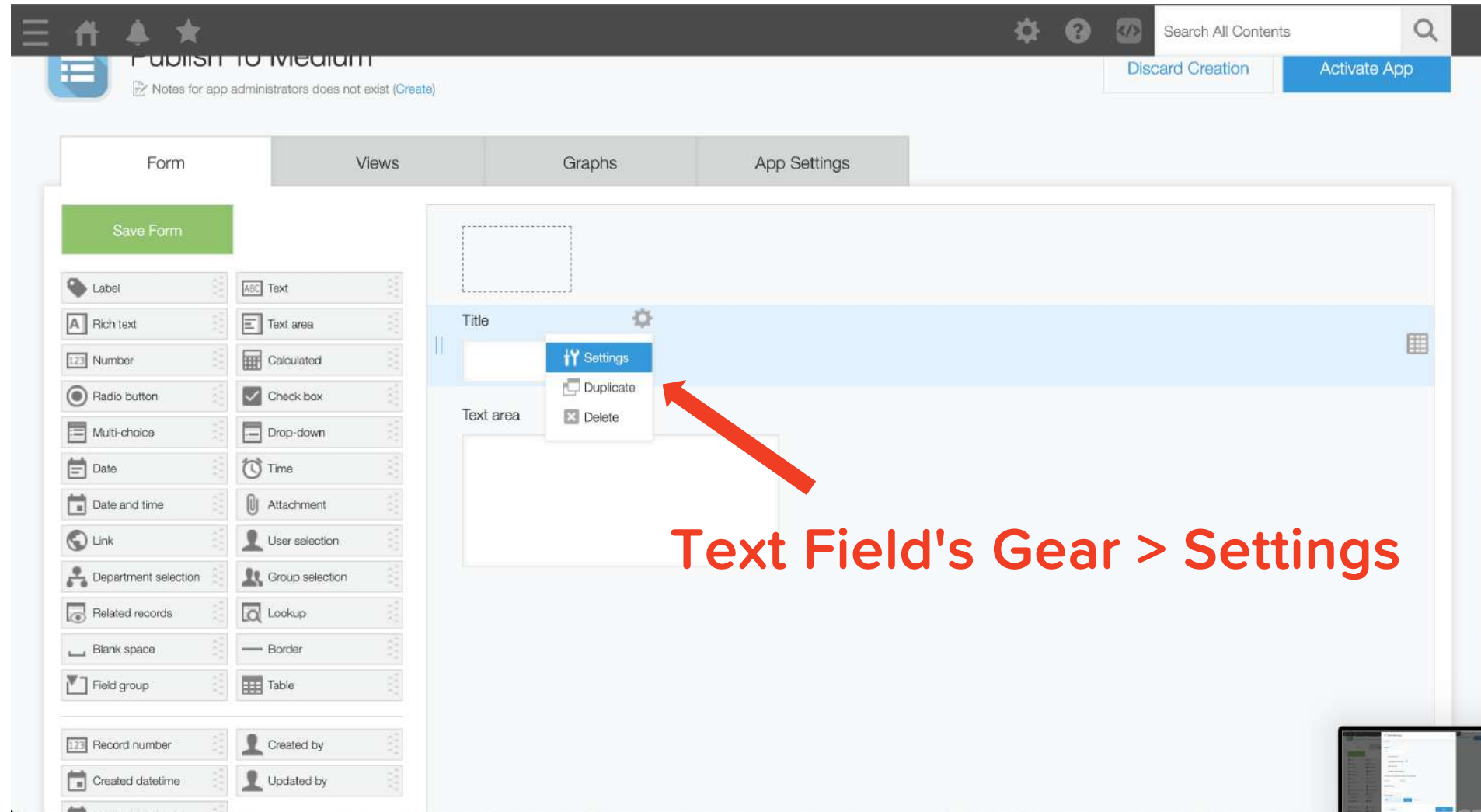
1x Text Area

1x Blank Space

Configure Fields

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

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



Inside the Text Field Settings

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

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

The screenshot shows the 'Text Settings' dialog box with the following fields and options:

- Name ***: A text input field containing 'Title'. A red arrow points to this field from a callout box that says 'Change the Name to "Title"'. Below this field are four checkboxes: 'Hide field name', 'Calculate automatically', 'Required field', and 'Prohibit duplicate values'.
- Number of Characters (Note: Use integer)**: Two input fields for 'Minimum' and 'Maximum'.
- Default Value**: A text input field.
- Field Code ***: A text input field containing 'title'. A red arrow points to this field from a callout box that says 'Change the Field Code to "title" ! Case sensitive!'. Below this field are 'Save' and 'Cancel' buttons.

At the bottom of the dialog is a 'Cancel' button.

Inside the Text Area Field Settings

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

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

The screenshot shows the 'Text Area Settings' dialog box in a software application. The dialog has a title bar with a help icon and the text 'Text Area Settings'. Below the title bar, there is a 'Name *' field with the value 'Body'. To the right of this field is a red callout box with the text 'Change the Name to "Body"'. Below the 'Name' field, there are two checkboxes: 'Hide field name' and 'Required field', both of which are unchecked. Below these checkboxes is a 'Default Value' field, which is empty. Below the 'Default Value' field is a 'Field Code *' field with the value 'body'. To the right of this field is another red callout box with the text 'Change the Field Code to "body" ! Case sensitive!'. At the bottom of the dialog, there are 'Save', 'Cancel', and 'Discard' buttons. The background of the application shows a form editor with various field types like 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, Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User selection, Group selection, Lookup, Border, Table, Created by, and Updated by.

Text Area Settings

? Help

Name *

Body

☐ Hide field name

☐ Required field

Default Value

Field Code *

body

Save

Cancel

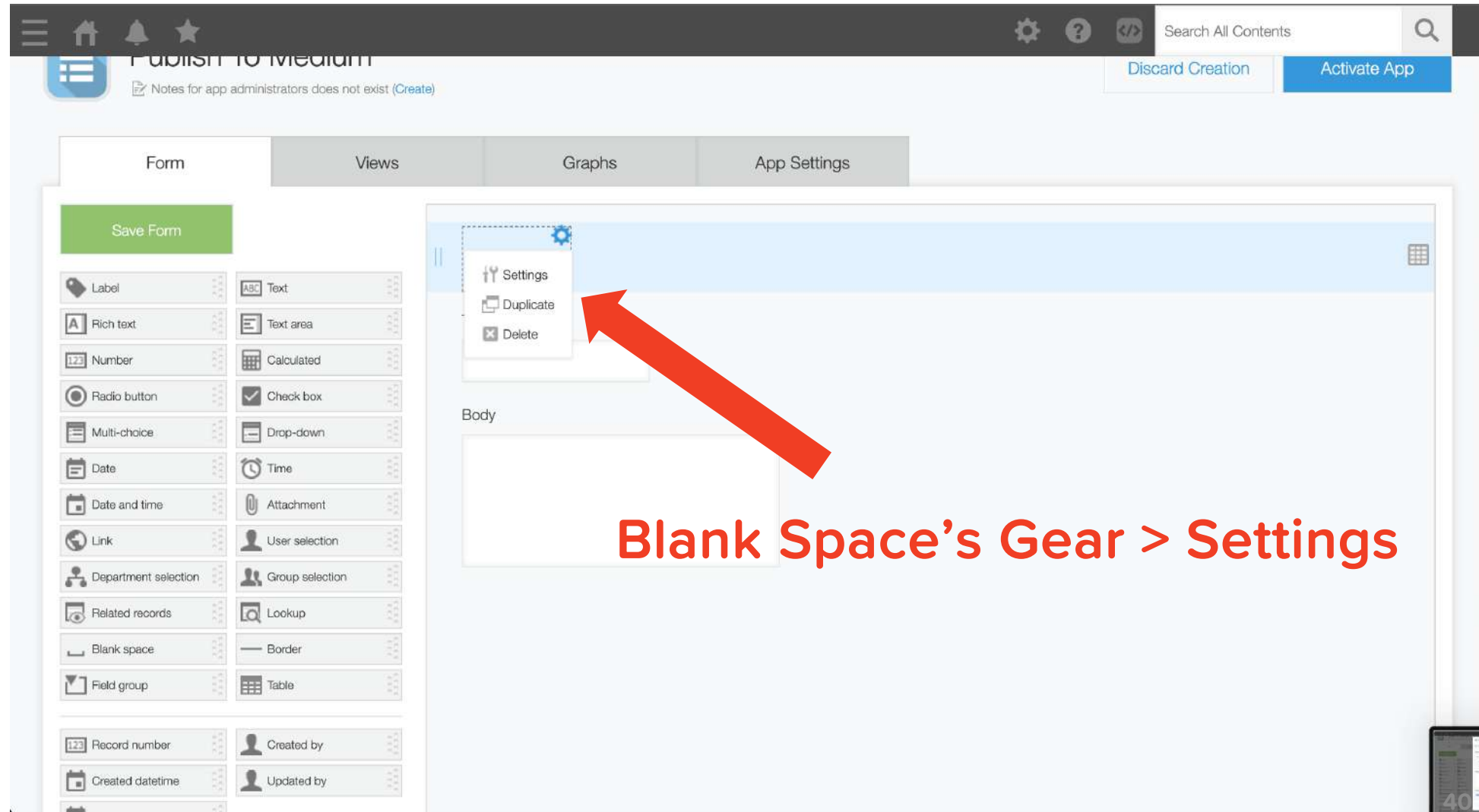
Change the Name to "Body"

Change the Field Code to "body" ! Case sensitive!

Configure Fields

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

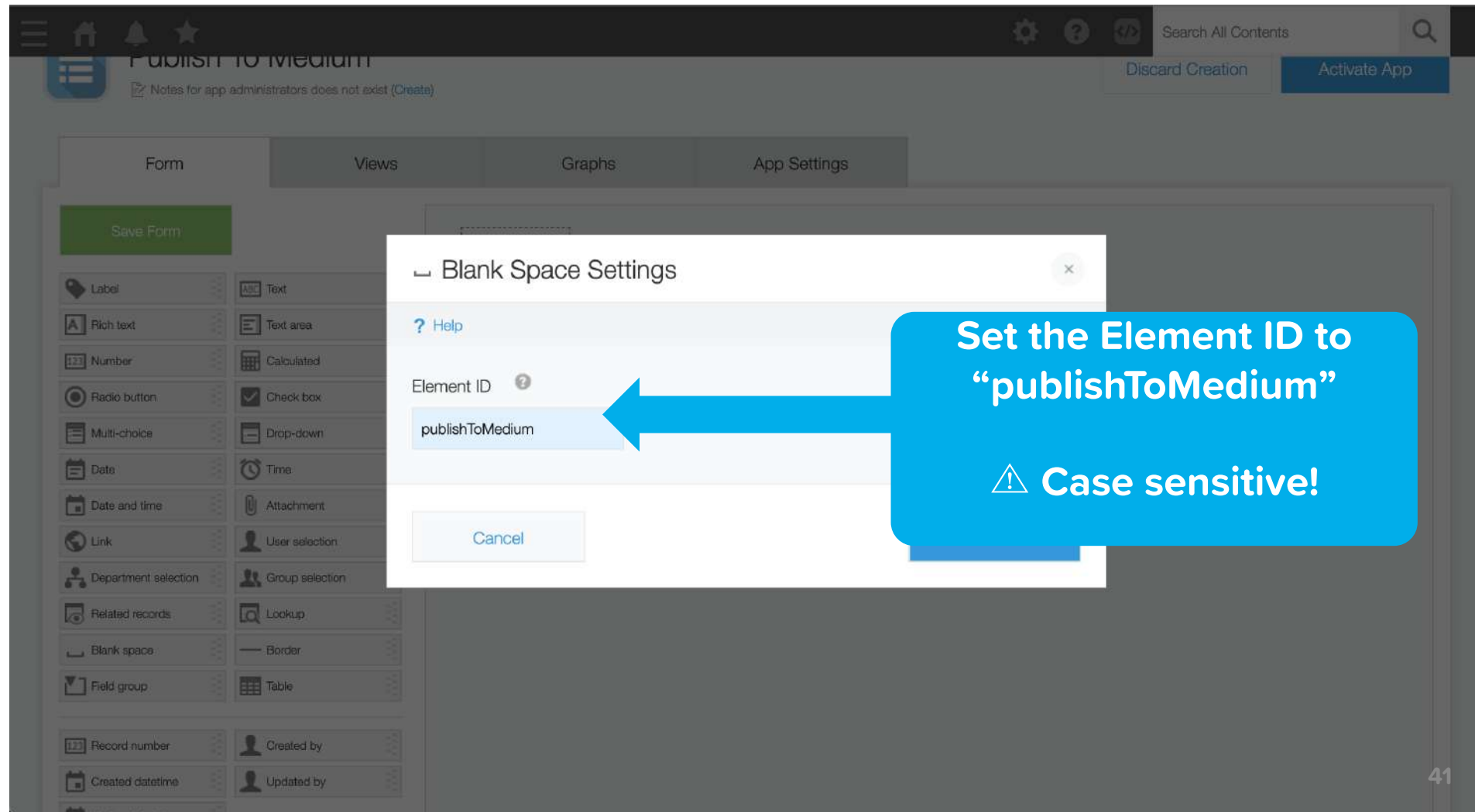
Edit the **Element ID**



Inside the Blank Space Settings

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

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



Does Your App Look Like This?

We changed...

Title

1x Text Field

1x Text Area Field

1x Blank Space

Set the fields'

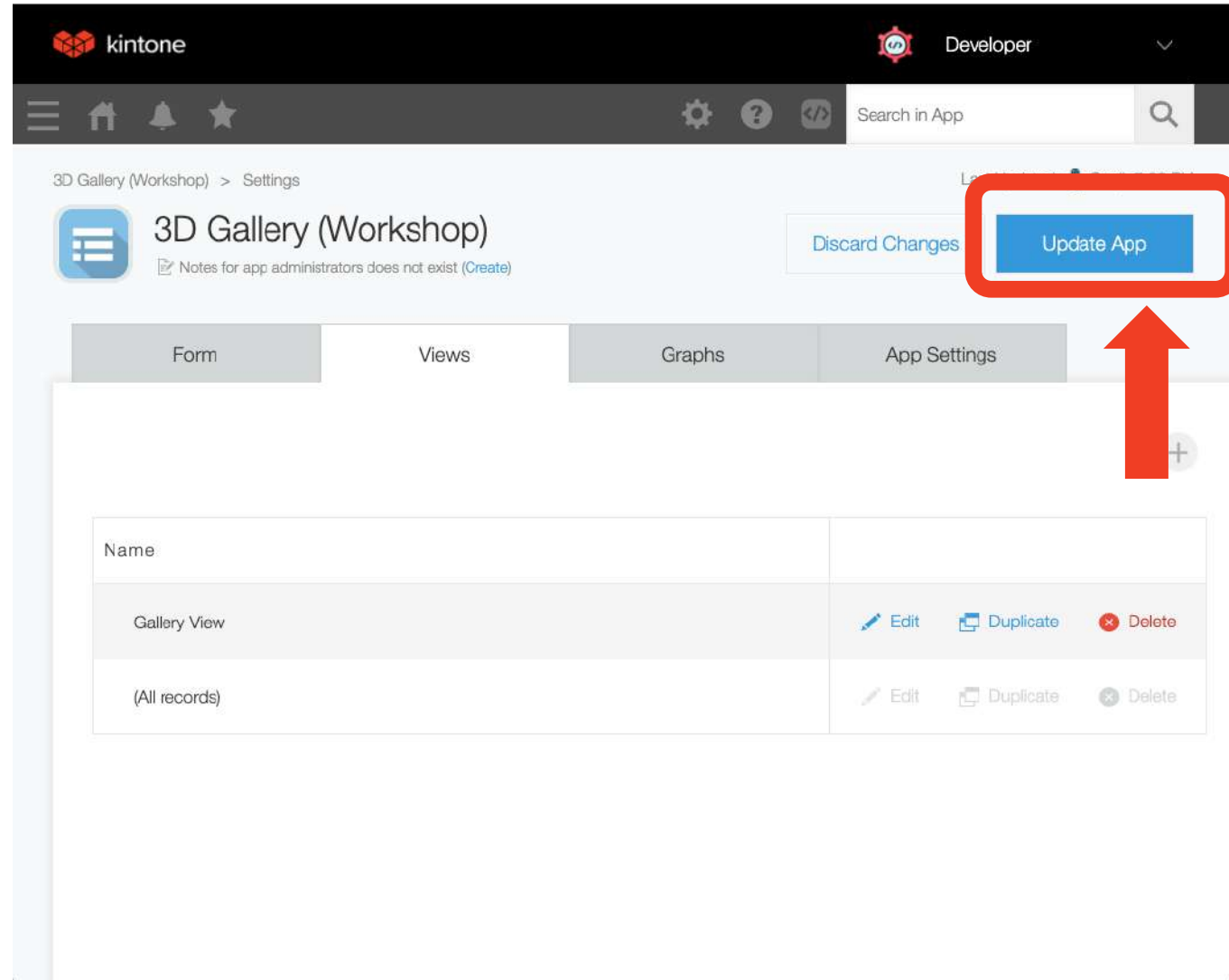
Names

and **Field Codes**

The screenshot displays a web-based application builder interface. At the top, a dark navigation bar contains icons for menu, home, notifications, and favorites, along with a search bar labeled 'Search All Contents'. Below this, a light blue header bar features a 'Publish to Medium' button, a note about administrator notes, and 'Discard Creation' and 'Activate App' buttons. The main workspace is divided into four tabs: 'Form' (selected), 'Views', 'Graphs', and 'App Settings'. On the left, a 'Form' panel includes a green 'Save Form' button and a grid of field types such as 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 others. The central canvas shows a form layout with a dashed box at the top, a 'Text' field, and a 'Text area' field. A right sidebar contains a grid icon.

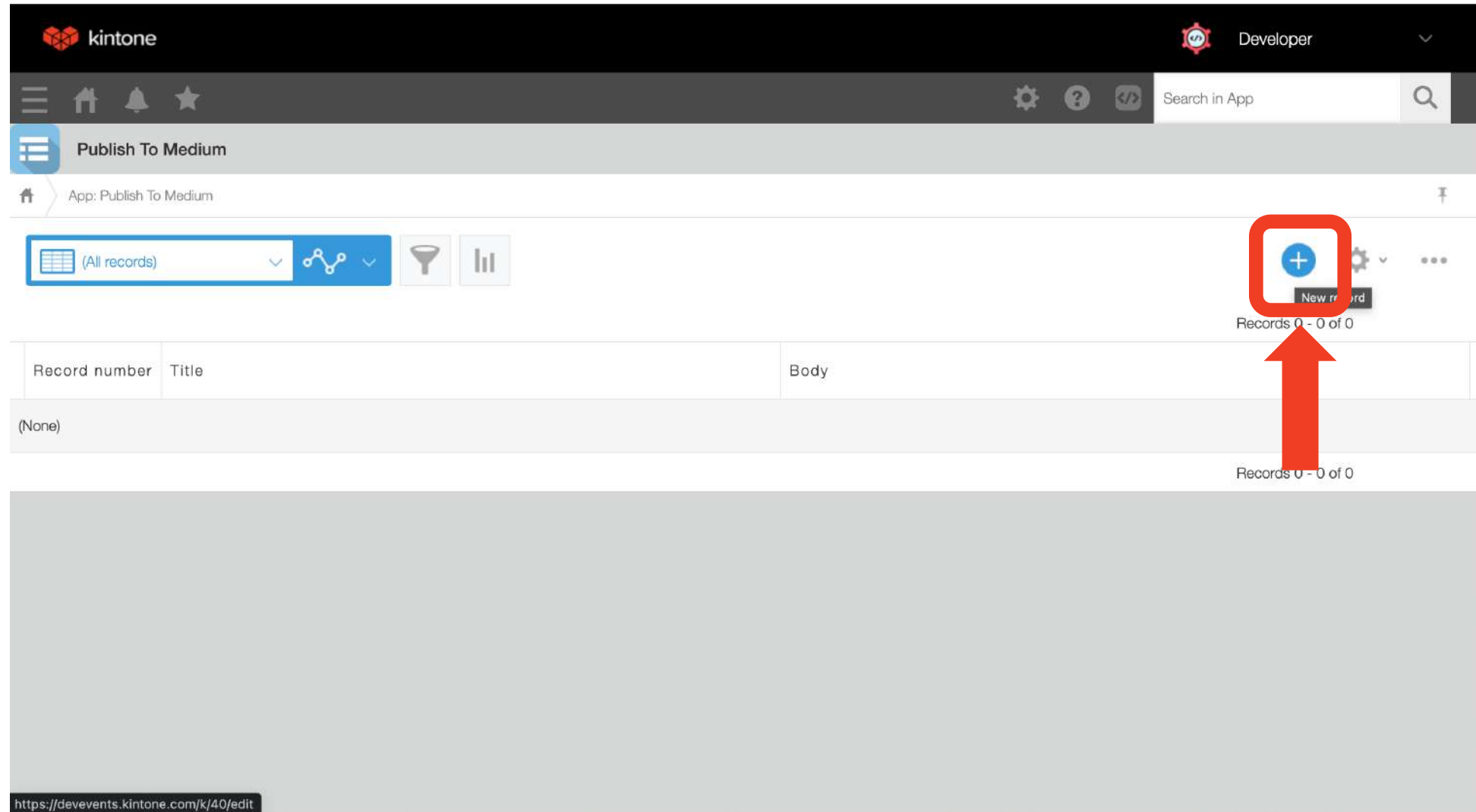
Activate the Kintone Database App

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

Enter an article title, and some body text using markdown!

Then click the **Save button**

The screenshot shows the Kintone interface for the 'Publish To Medium' app. The top navigation bar includes the Kintone logo, a 'Developer' user profile, and a search bar. Below the navigation bar, the app name 'Publish To Medium' is displayed. The form contains two main fields: 'Title' and 'Body'. The 'Title' field contains the text 'Test Title'. The 'Body' field contains the markdown text '##Test BODY' followed by 'With `cool` markdown features!'. A red rounded rectangle highlights the form fields, and a red arrow points to it from the right. At the bottom right of the screen, the number '45' is visible.

Cancel Save

Title
Test Title

Body
##Test BODY
With `cool` markdown features!

Connect Kintone to the Project

1. Input Kintone Subdomain
2. Input Kintone Login Credentials
3. Update App ID in
`customize-manifest.json`



Go inside the .env.example file

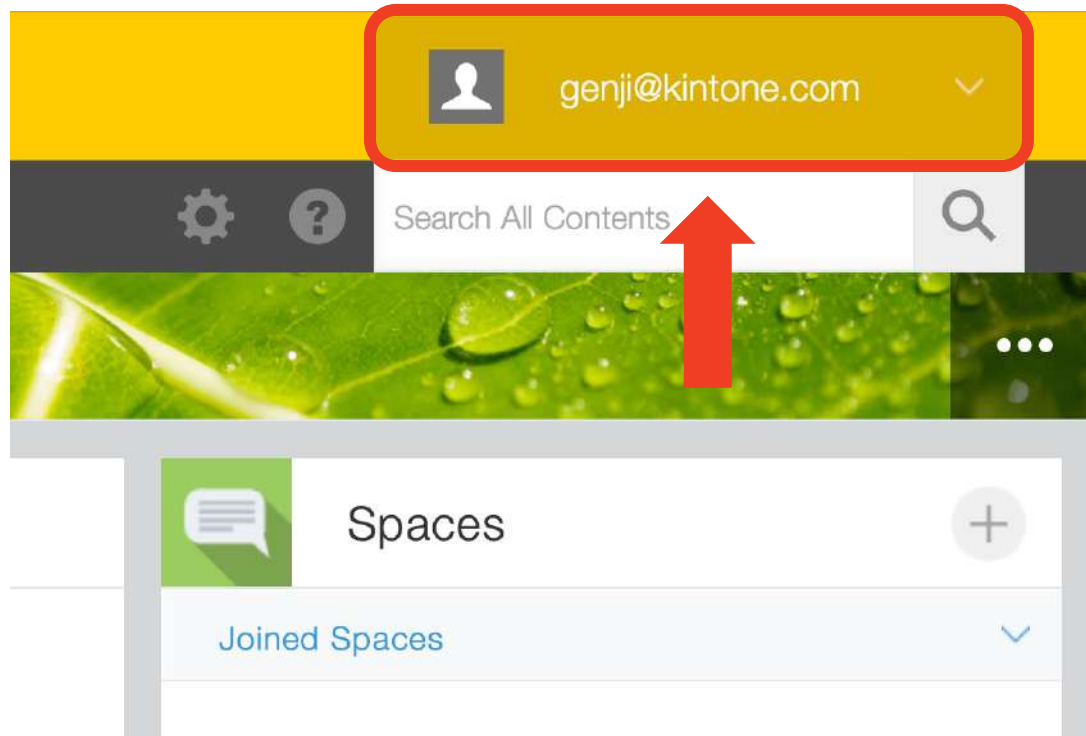
- **.env.example** file is used to verify that **.env** file is correctly configured
- **Duplicate** this file & name it "**.env**"

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

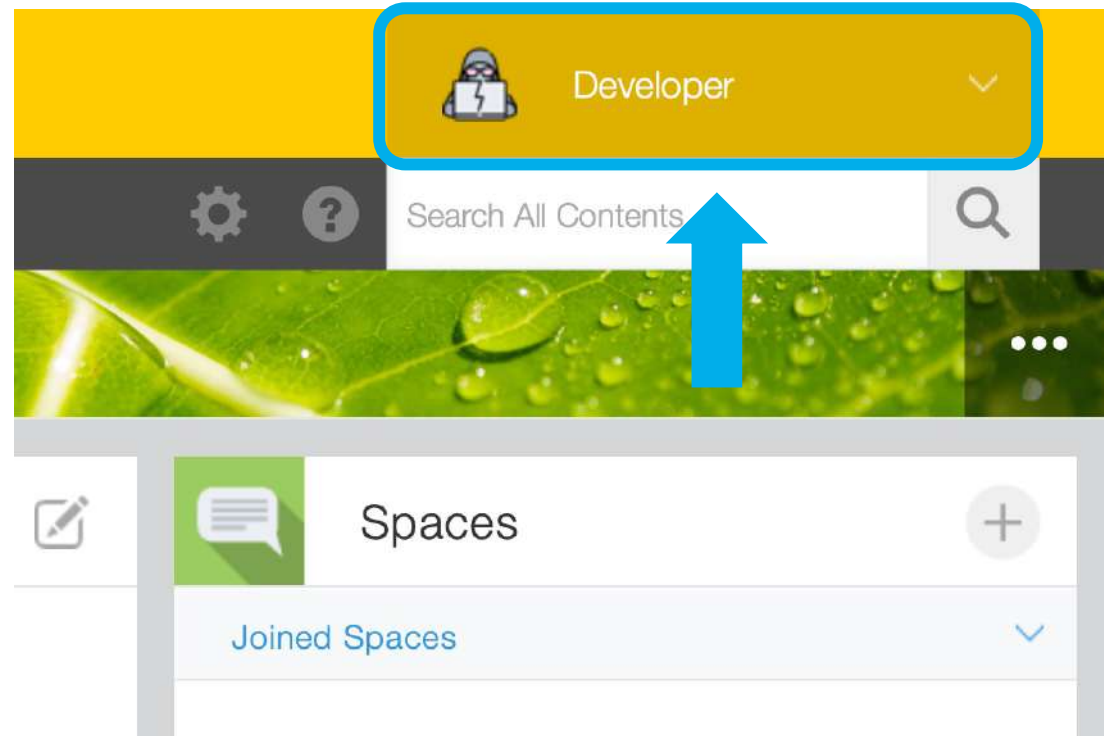
Example .env file

```
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 Username ?



Default: Email address

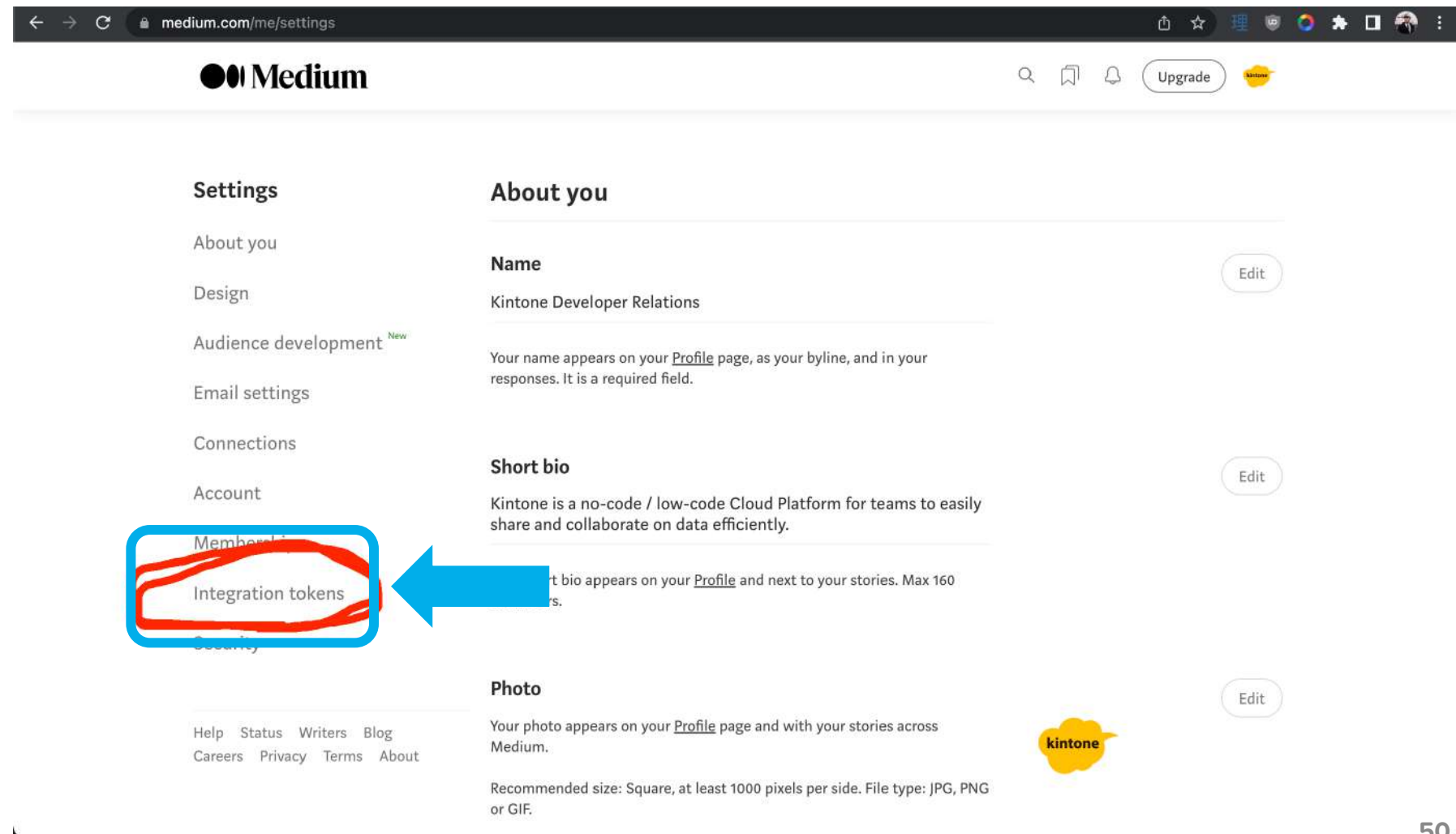


If modified: Display Name

Where to get my API Token?

Navigate to your Medium Account's [Settings Page](#)

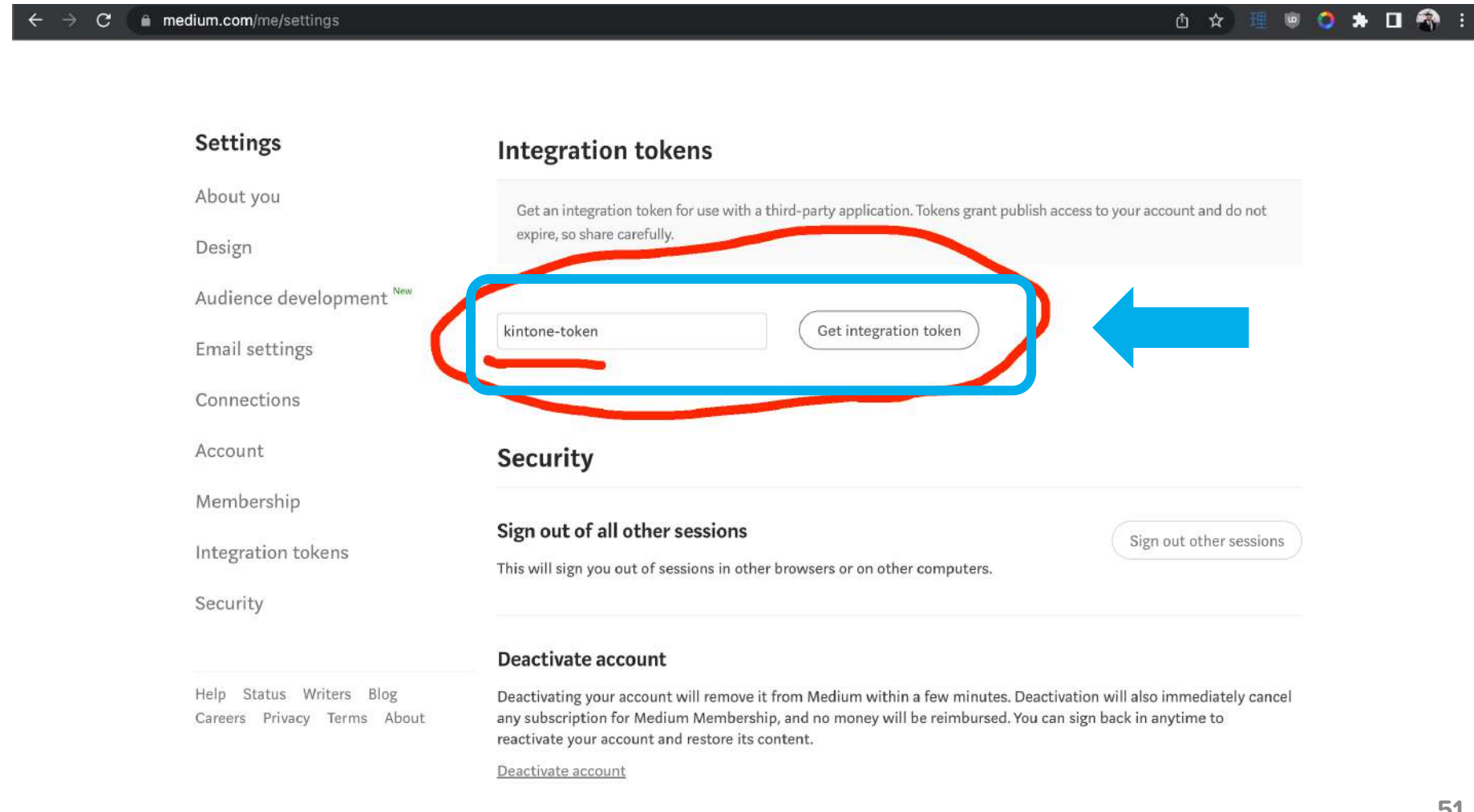
Click on “integration tokens” and create a new token. Copy and paste it into your .env file.



Where to get my API Token?

Navigate to your Medium Account's [Settings Page](#)

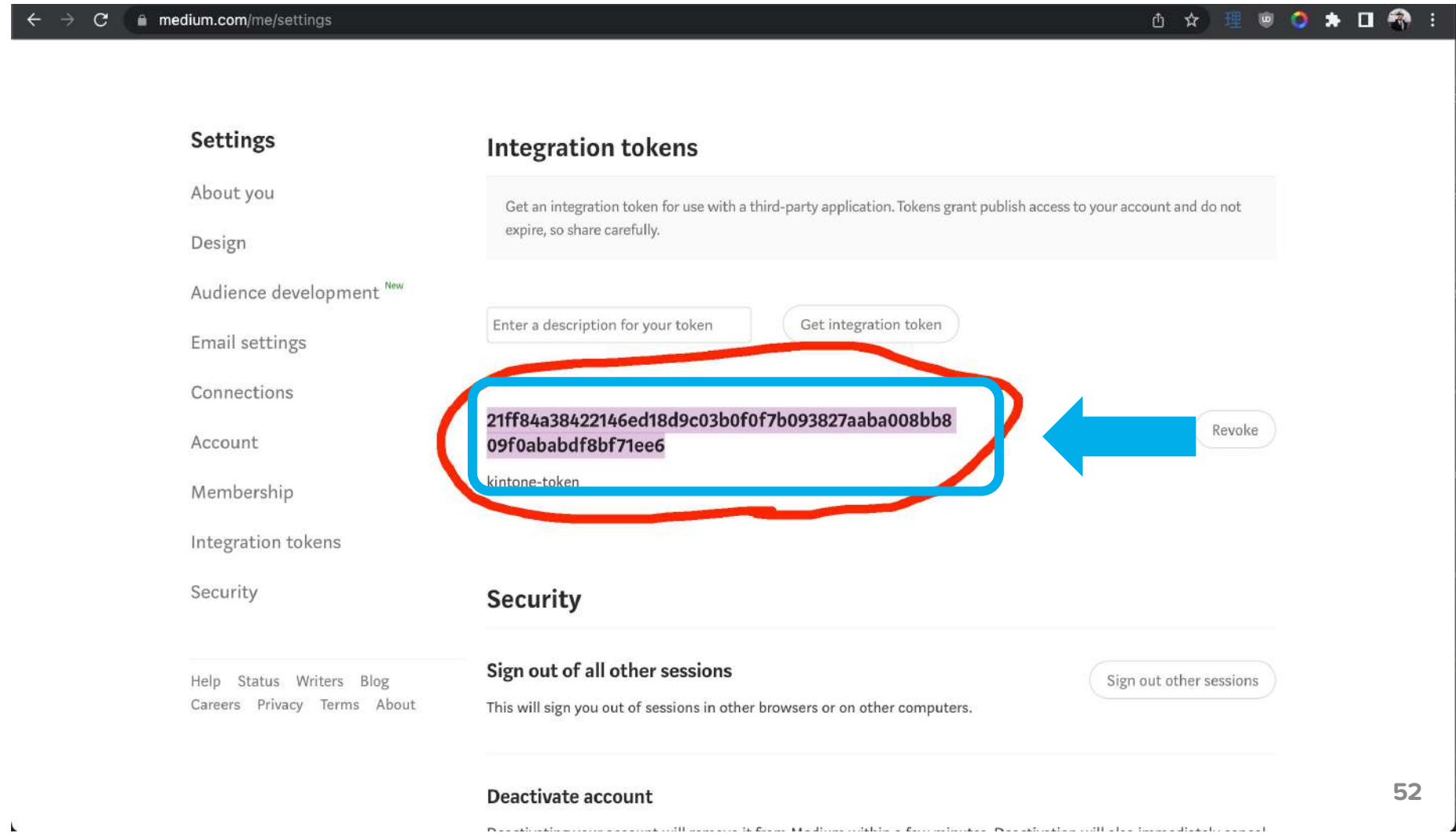
Click on “integration tokens” and create a new token. Copy and paste it into your .env file.



Where to get my API Token?

Navigate to your Medium Account's [Settings Page](#)

Click on “integration tokens” and create a new token. Copy and paste it into your .env file.




The screenshot shows the Medium account settings page at `medium.com/me/settings`. The left sidebar contains a list of settings categories: Settings, About you, Design, Audience development ^{New}, Email settings, Connections, Account, Membership, Integration tokens, and Security. The main content area is titled "Integration tokens" and includes a description: "Get an integration token for use with a third-party application. Tokens grant publish access to your account and do not expire, so share carefully." Below this, there are two buttons: "Enter a description for your token" and "Get integration token". A red circle highlights the "Get integration token" button. A blue box highlights the generated token: `21ff84a38422146ed18d9c03b0f0f7b093827aaba008bb809f0ababdf8bf71ee6`. A blue arrow points from the token to the "Revoke" button. Below the token, the label "kintone-token" is visible. At the bottom of the page, there is a "Security" section with a "Sign out of all other sessions" button and a "Deactivate account" button.

Where to get my Author ID?

Use the following
curl command in
your terminal,
substituting your
API Token:

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


```
curl -H "Authorization: Bearer  
2d6755756a12c743b4312f85fad0246a7953c68b78ef19c9efef134ef6dd8a429"  
https://api.medium.com/v1/me | json_pp
```



Where to get my Author ID?

This will return
your Author ID:
Copy and paste it
into your .env file


```
{  
  "data": {  
    "id": "1df66a8dd2779709d3ca3b3526a4a0190972b8fe95afc7412eebdc4d0030f0549",  
    "imageUrl": "https://cdn-images-1.medium.com/fit/c/400/400/1*YfWnpcmJZnwmHpO-bSnzNA.png",  
    "name": "Kintone Developer Relations",  
    "url": "https://medium.com/@kintone_devrel_jp",  
    "username": "kintone_devrel_jp"  
  }  
}
```



Go inside the customize-manifest.json file

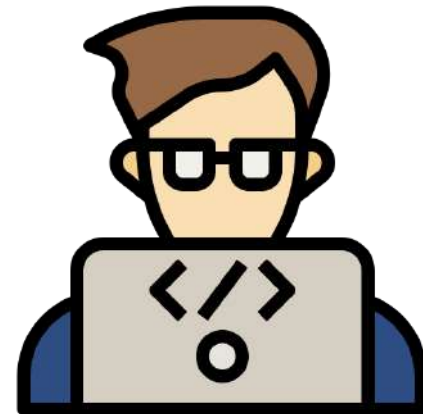
- **customize-manifest.json** file is Kintone Customize Uploader's configuration file
- Replace the **23** with your App's ID
- If it is your first Kintone App, it would be **1**

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



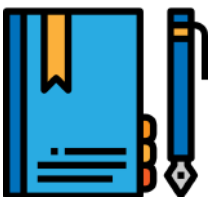
Time to Explore the Code

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

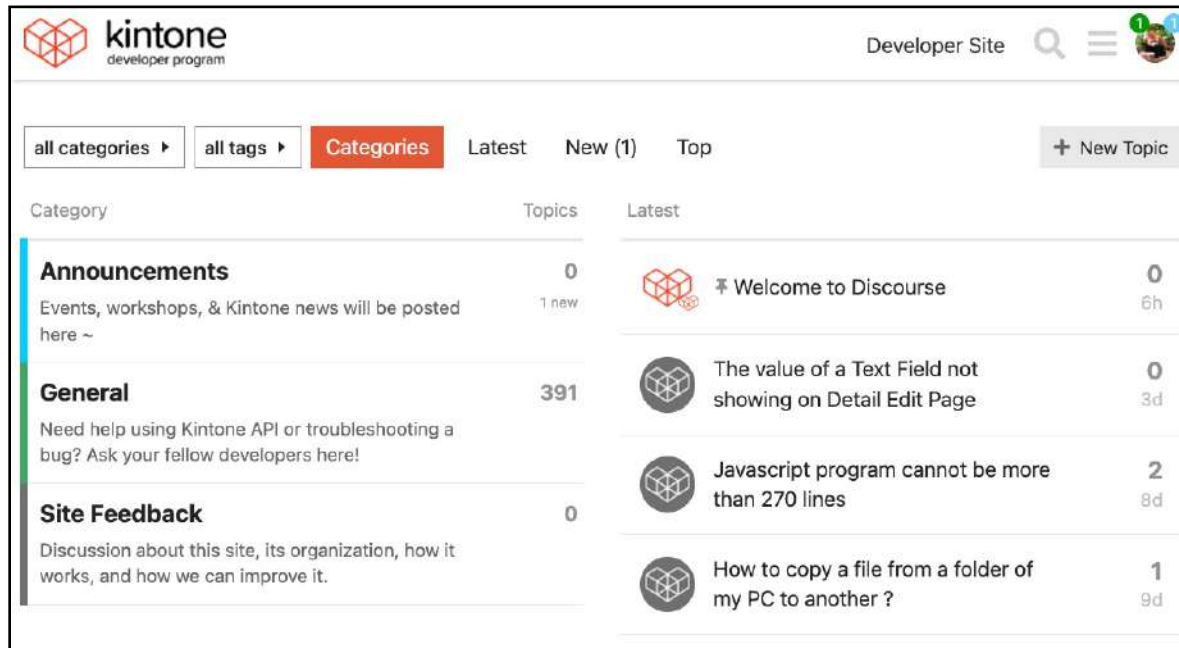
What are the next steps you can take?



- 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](#) 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!

Where Can I Get Help?

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





Any
Questions?

developer.kintone.io

Thank You!



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Introductions: REST API, JS Promise, React x Kintone



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