



Welcome to the

React x Kintone x Shepherd Workshop!

Download Code & Slides

bit.ly/kdp-shepherd

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.





FYI 🤗

YouTube

Subscribe to get notified we upload the recording!

bit.ly/KDP_Video



Gift Card Raffle

Stay till the end to **enter a raffle!**
Get one \$25 gift card!



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/shepherd-react-tutorial](https://github.com/sean-kintone/shepherd-react-tutorial) Repo
2. Go inside the folder & install the dependencies!

Run these commands
from your terminal

```
cd Downloads
git clone https://github.com/sean-kintone/shepherd-react-tutorial
cd shepherd-react-tutorial/backend
npm install && npm start
cd ../frontend
npm install && npm start
```



About our backend

This time, we've already set up a quick backend in order to connect to our Kintone database and post records via the [add Record API](#)

Check out this [Kintone Backend Tutorial](#) to see exactly how to set it up

**Make sure to
check it out!**



Get Your Kintone Subdomain



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

The screenshot shows the 'Kintone Developer License Terms of Service' form. It includes fields for 'First Name*', 'Last Name*', and 'Email*'. Below these is a dropdown menu for 'Which of the following best describes you?' with 'Please Select' as the current option. 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

The screenshot shows the 'Kintone Developer License Terms of Service' registration page. It includes fields for First Name, Last Name, and Email. Below these is a dropdown menu for 'Which of the following best describes you?' and a list of checkboxes for 'What first interested you in a Kintone Developer License?'. Further down is another list of checkboxes for 'What are you interested in using the Developer License for?'. At the bottom, there is a text input field for 'Create your Kintone Developer License subdomain (lowercase, numbers and hyphens only)*' with an example 'mydomain, coffee-lovers'. A green arrow points to the Email field, and a blue arrow points to the subdomain input field.

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!

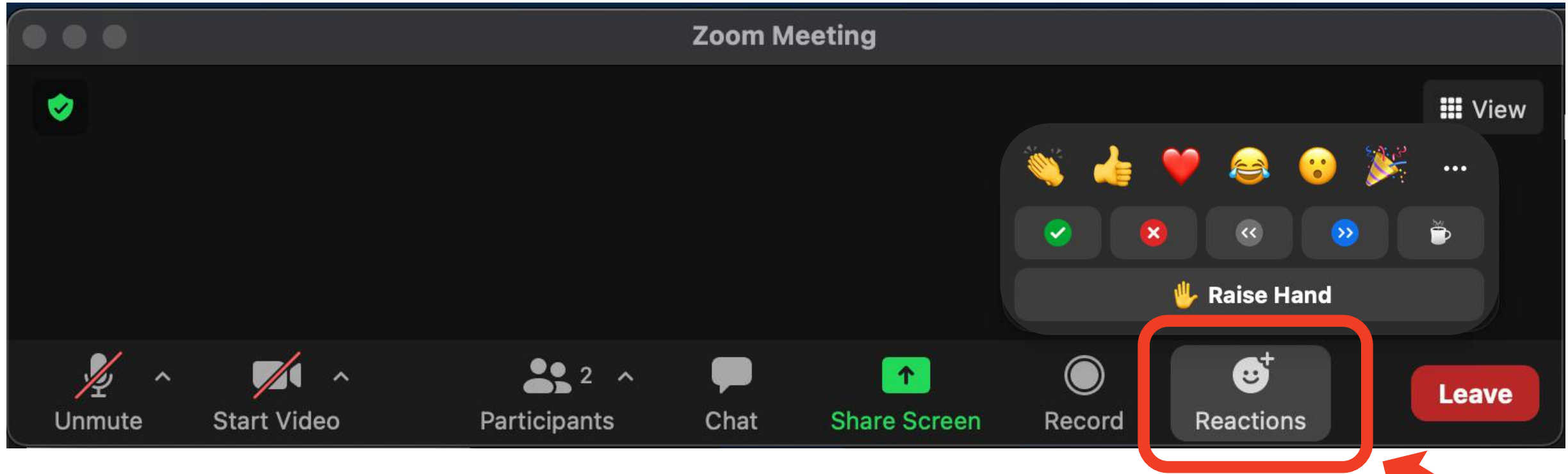
Errors related to .env

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

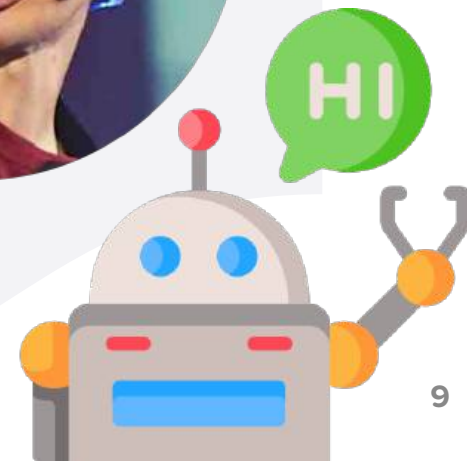
Sean



Genji



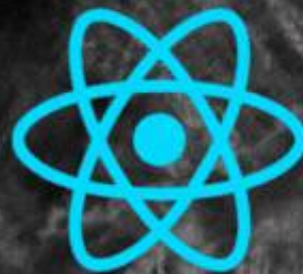
Will



Learn React & Shepherd.JS

Join Us for a
Free Online Workshop
Sept 13 @ 6pm Pacific

Build an
Onboarding
Guide



What
We Will
Make
Today





Workshop Overview

Project Setup

Project Overview

Install Dependencies
{Both frontend & backend}

Create a Web Database

Coding a Guided Tour

Create the HTML Element
the Onboarding will follow

Setup and learn / review
about React Hooks

Refactoring

The HTML is hard-coded.
Can we refactor it?
Various unrelated code
are all in the same file.
Let's turn them into
components!



Get Started

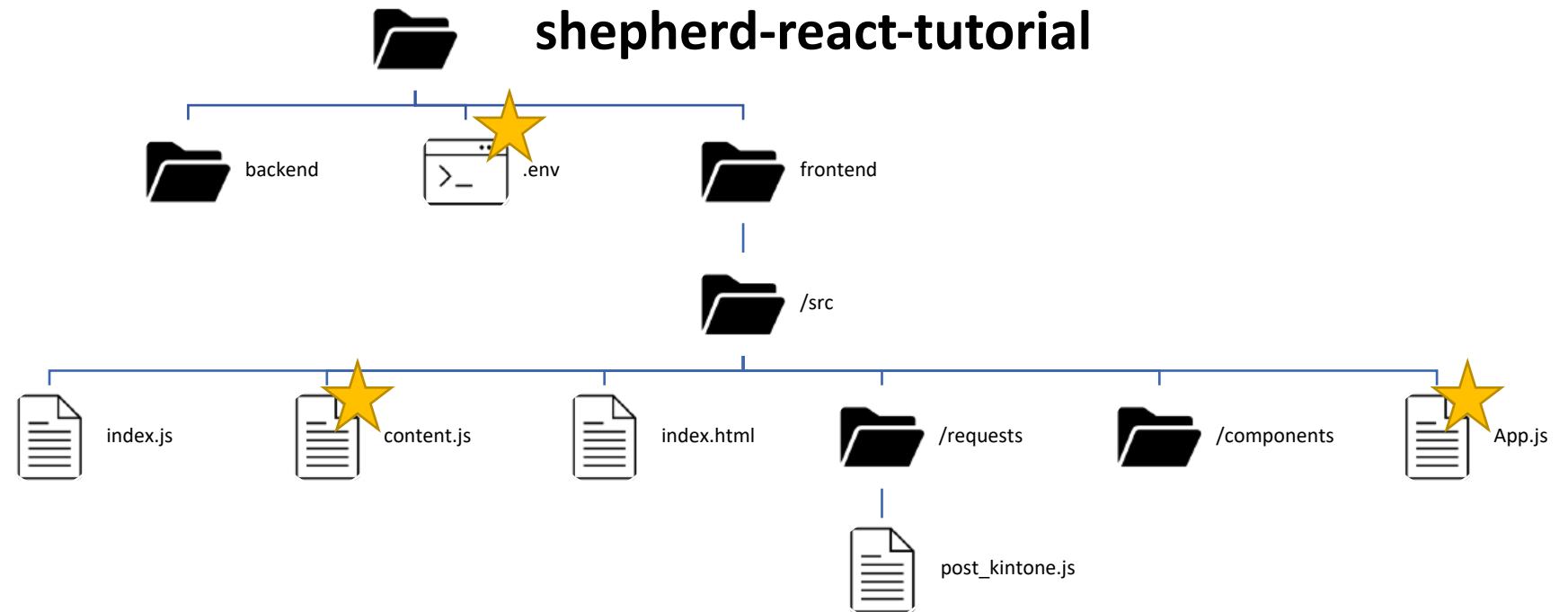
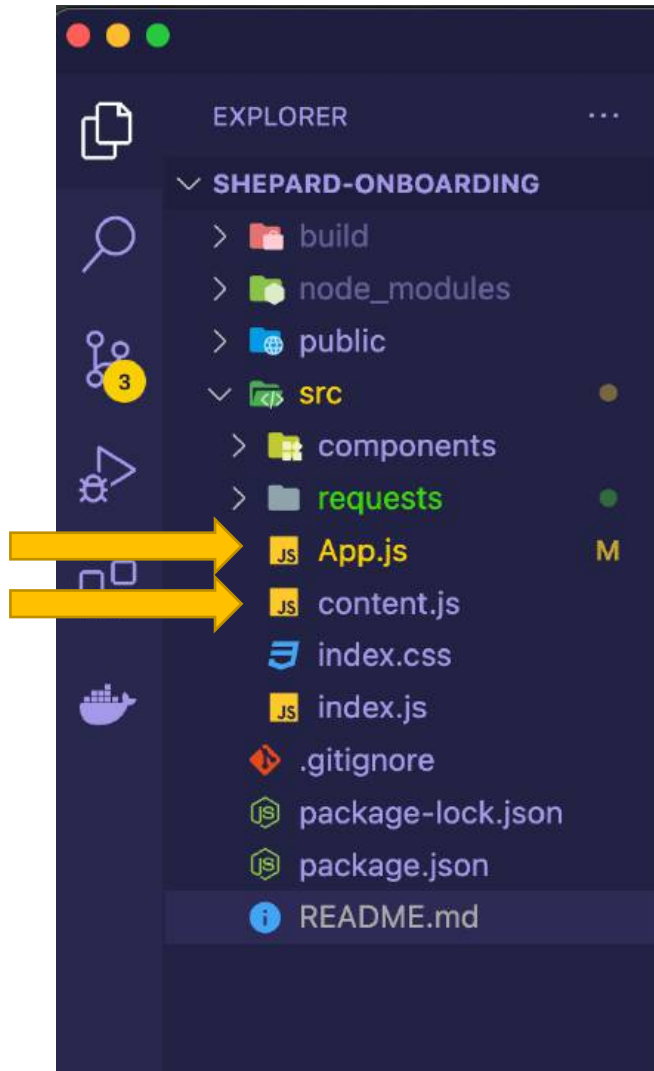
Let's setup our workshop's starting point!

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Run these commands
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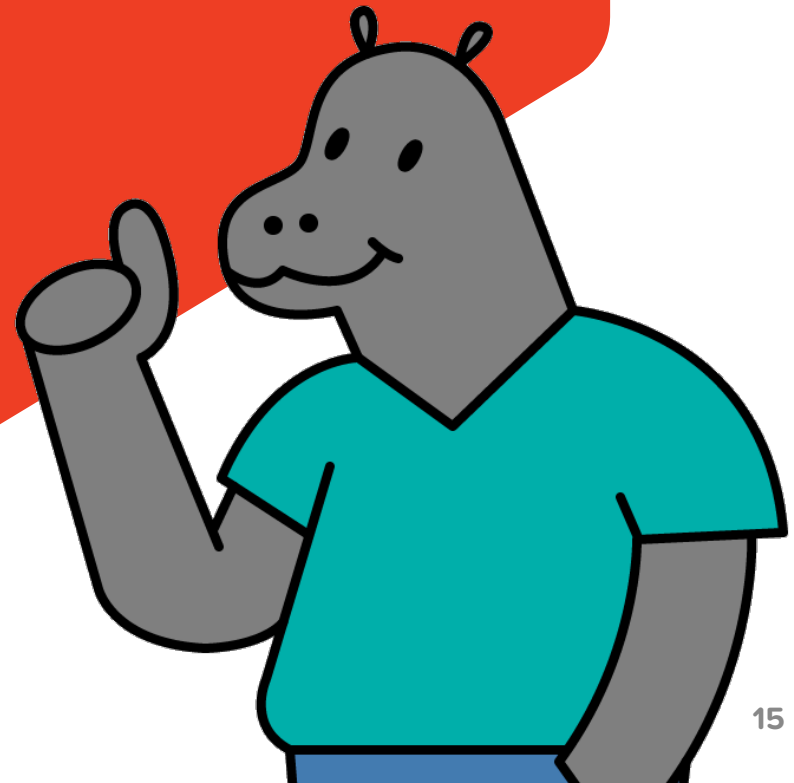
```
cd Downloads
git clone https://github.com/sean-kintone/shepherd-react-tutorial
cd shepherd-react-tutorial/backend
npm install && npm start
cd ../frontend
npm install && npm start
```

Overview of the Repo

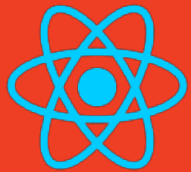


★ Files We Will Be Editing

Quick check-in with Zoom polling



Quick Dive into React & Shepherd



Quick React Review

React Helps Make "apps"

- Your website or content is no longer written in HTML.
- Write React in JavaScript, and it outputs HTML to display.
- Code lets you power up your site.

React Components

- React lets developers "separate concerns"
- You can write code for certain objects in different files, and then import them for use
- Helps keep the code-base organized

Reactivity

- Using JS, React allows web apps to *react* to user input in ways HTML could not.
- Its internal code keeps track of variables and their "state" so you can easily watch for changes.

What is Shepherd?

Onboarding Library

- shepherdjs.dev
- Shepherd is an open-source library to help devs easily build guided tours of your website

Easy UX

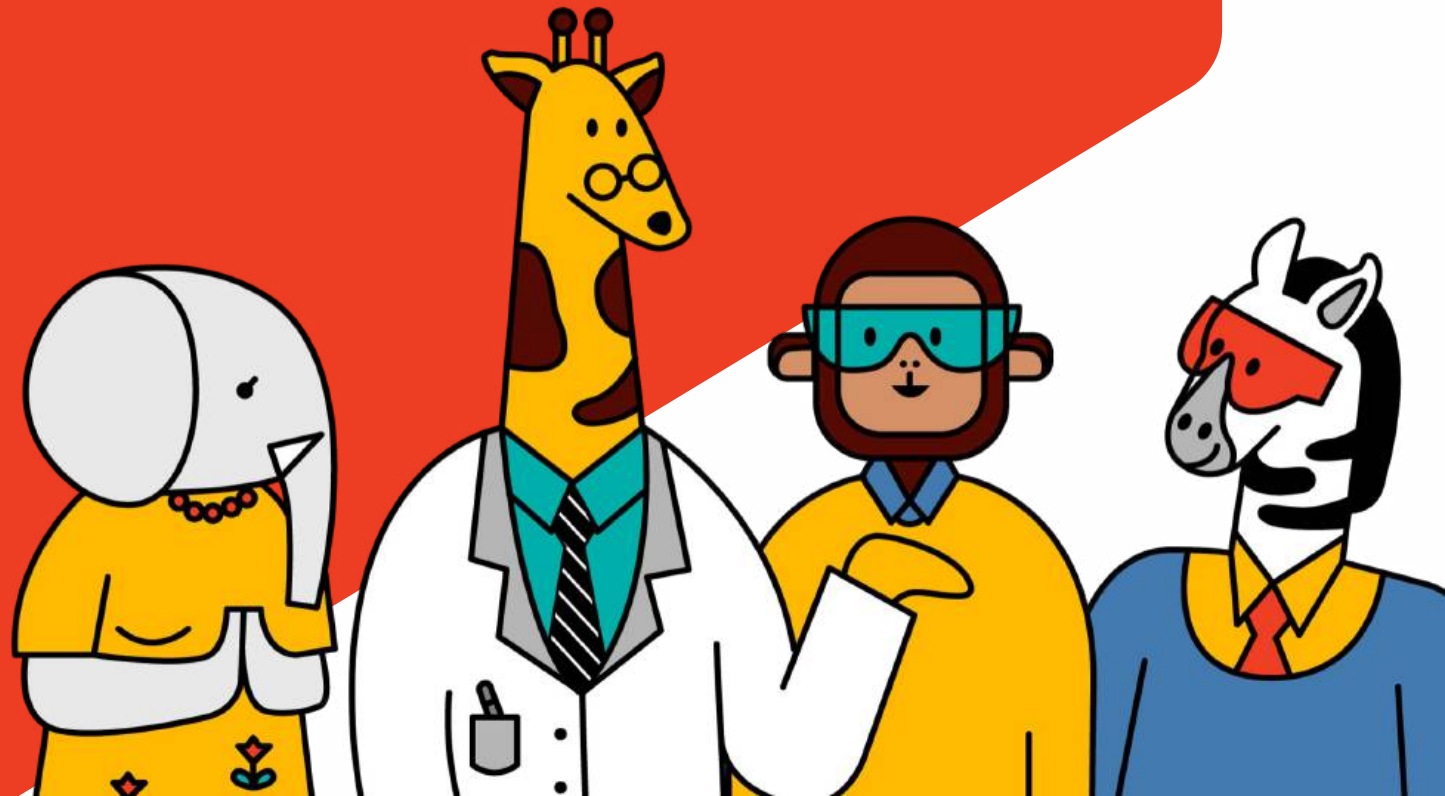
- Vast majority of web traffic will leave your site within 1 minute.
- Onboarding helps user retention, improve sales, and increase understanding

Impress Someone

- If you are job hunting, include an onboarding example in your GitHub! It's flashy and impresses the non-tech savvy.
- Employed? Stop losing users and co-workers in complex apps in your suite!

What is Kintone?

Built for teamwork,
designed by you



What is Kintone?

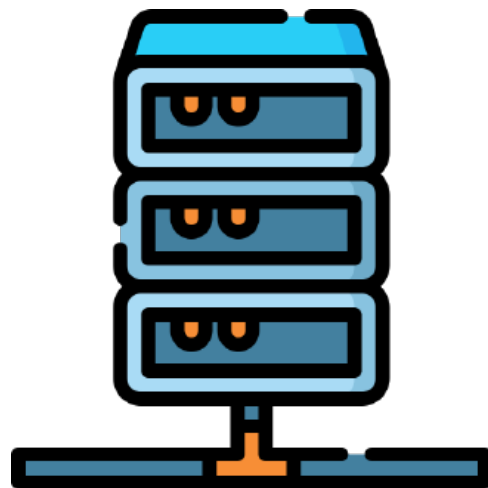


Kintone is a **no-code / low-code** cloud platform for teams to easily share and **collaborate** on their **data** efficiently.

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.

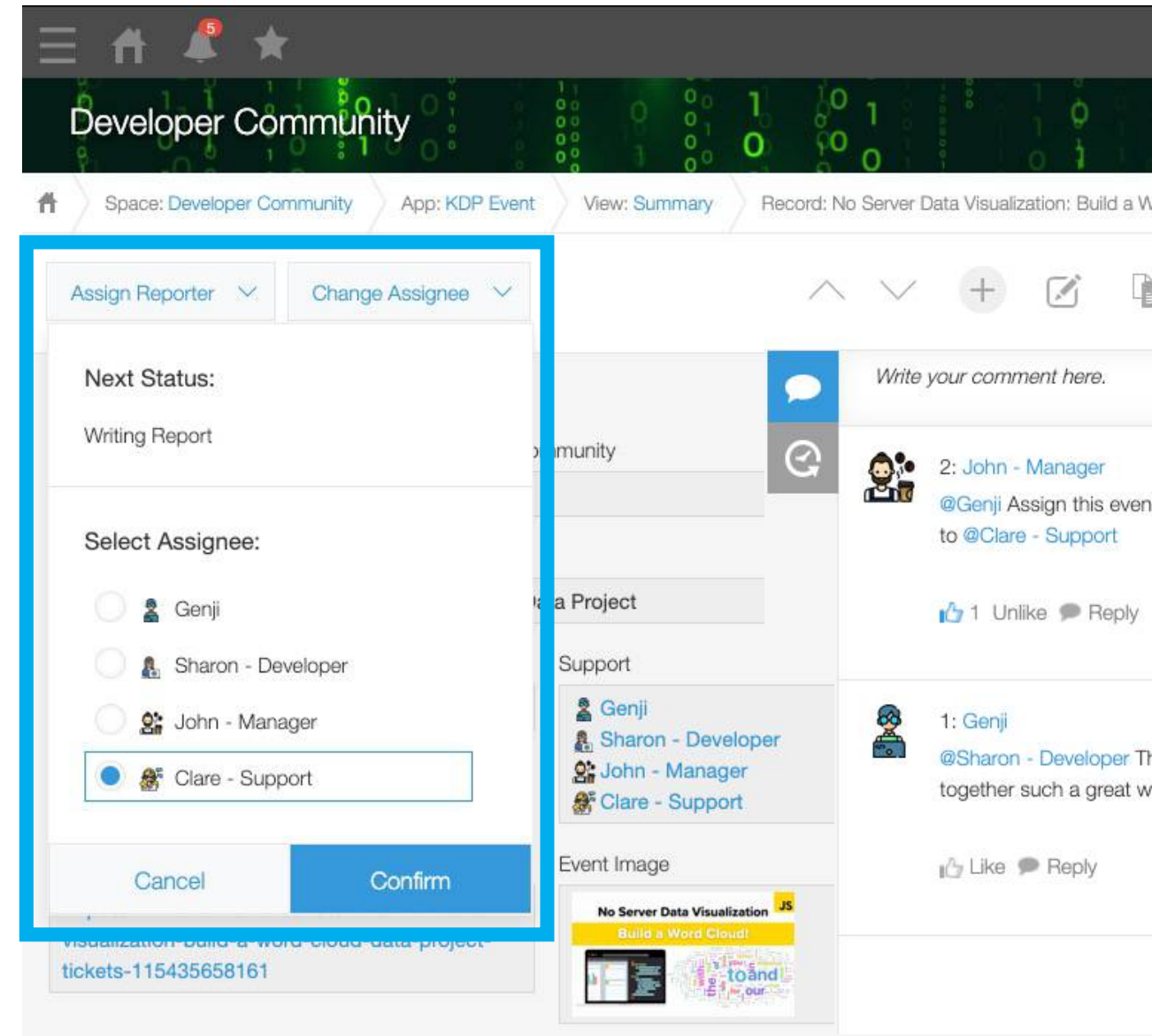
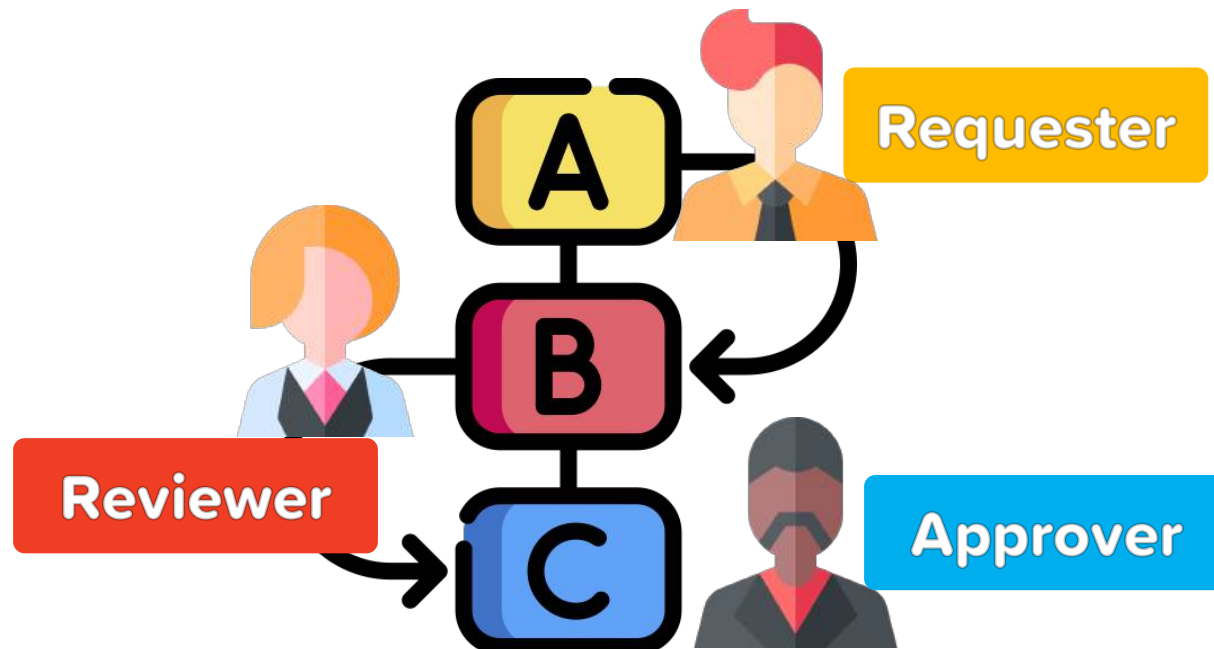
3: Clare - Support Aug 27, 2020 1:28 AM
@Sharon - Developer @Genji
Done!
Like Reply

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

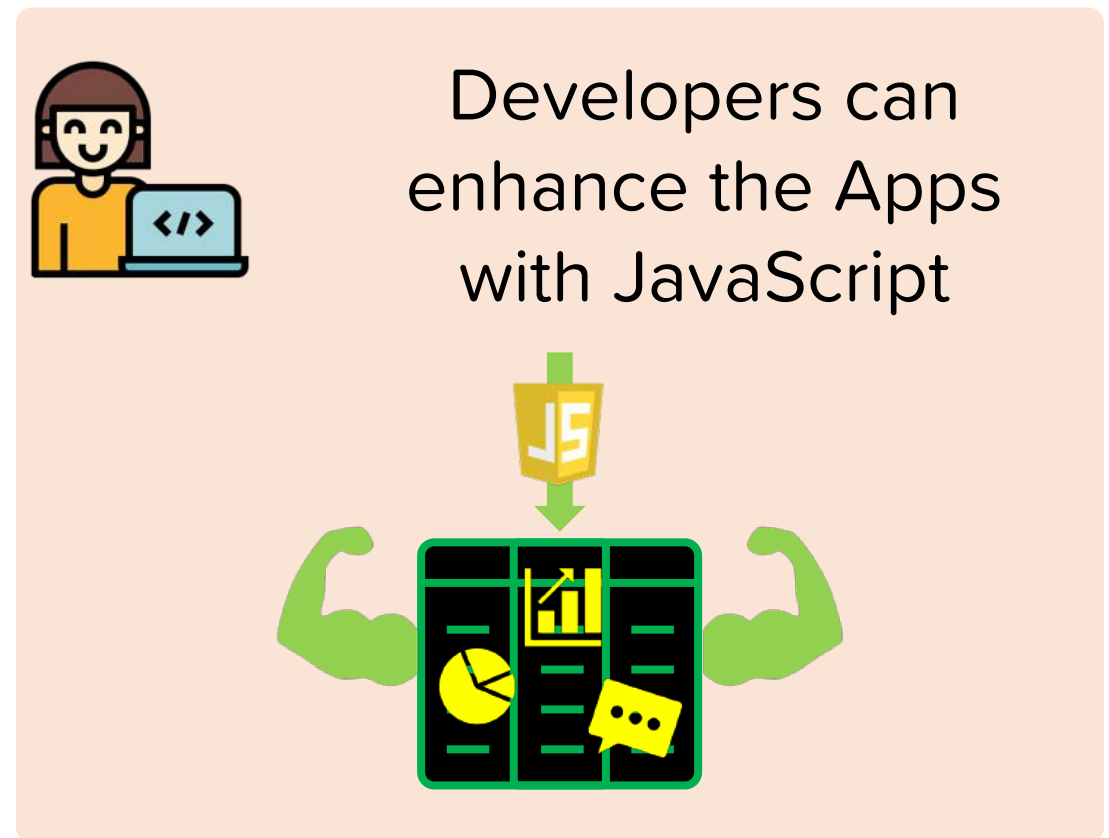
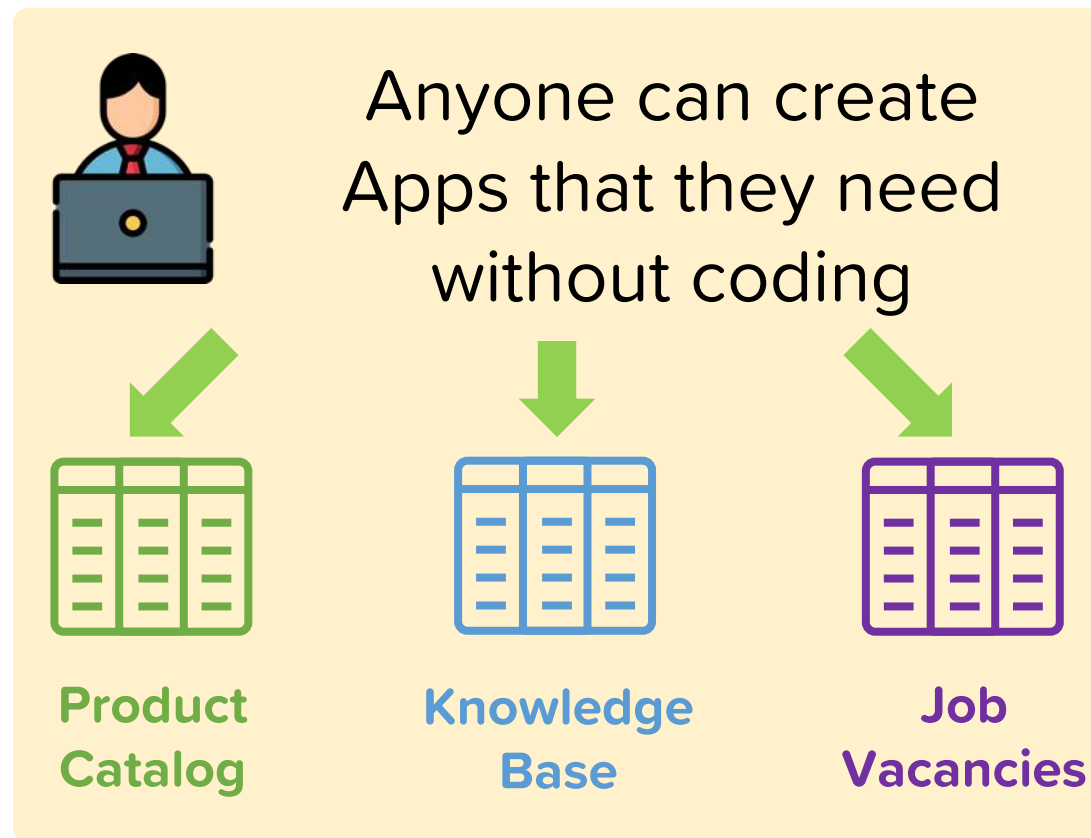
The screenshot shows the Kintone 'Sales & Leads' app editor. At the top, there's a breadcrumb 'Sales & Leads > Settings' and a status bar indicating 'Last Updated: Mary Simpson 12:10 AM'. Below this are 'Discard Changes' and 'Update App' buttons. The main interface has four tabs: 'Form', 'Views', 'Graphs', and 'App Settings', with 'Form' currently selected. On the left, a 'Save Form' button is visible above a palette of field types including Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Related records, Blank space, Field group, Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User selection, Group selection, Lookup, and Border. The main workspace displays a form titled 'Leads & Sales' with fields for 'Lead Title' and 'Sales Representative' (with a search icon). Below these is a 'Contact Info' section containing fields for 'Company Name', 'Website', 'Contact Name', 'Job Title', 'Email', and 'Telephone Number'. At the bottom, a table header is visible with columns: 'Product Name', 'Product ID', 'Unit Price', and 'Quantity'.

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

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

Everyone Contributes!

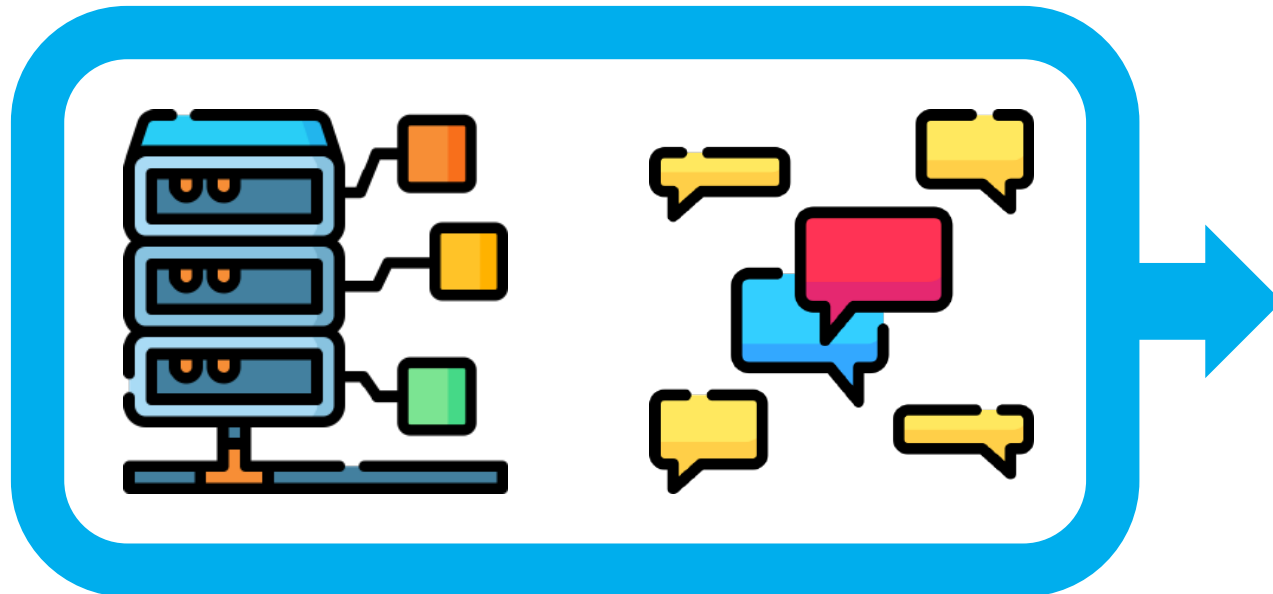
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

Data + Communication



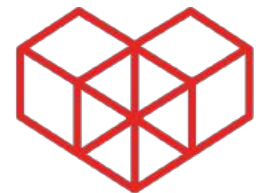
Insight



Action



How Developers Contribute

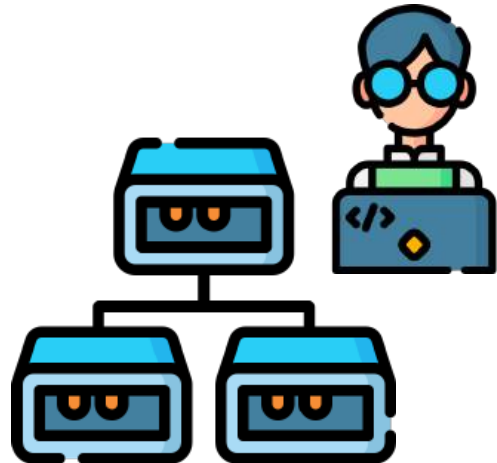


kintone
developer program

How Developers Contribute

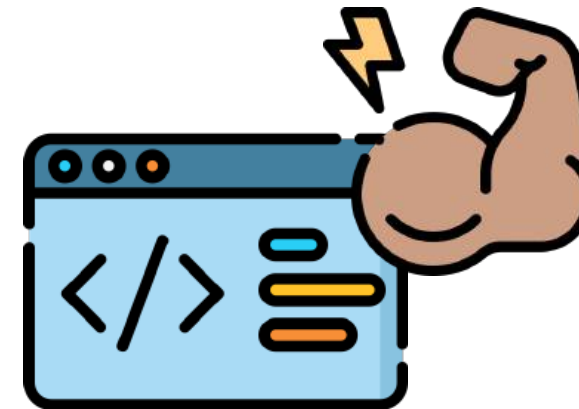
Command Center

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



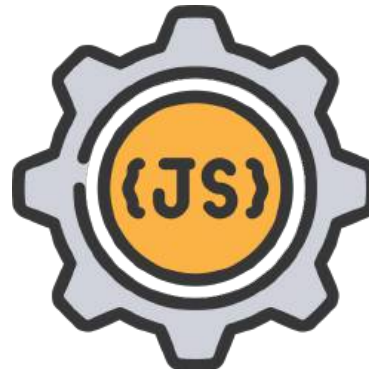
Enhancements

- Develop JavaScript customizations
- Build & share extensions



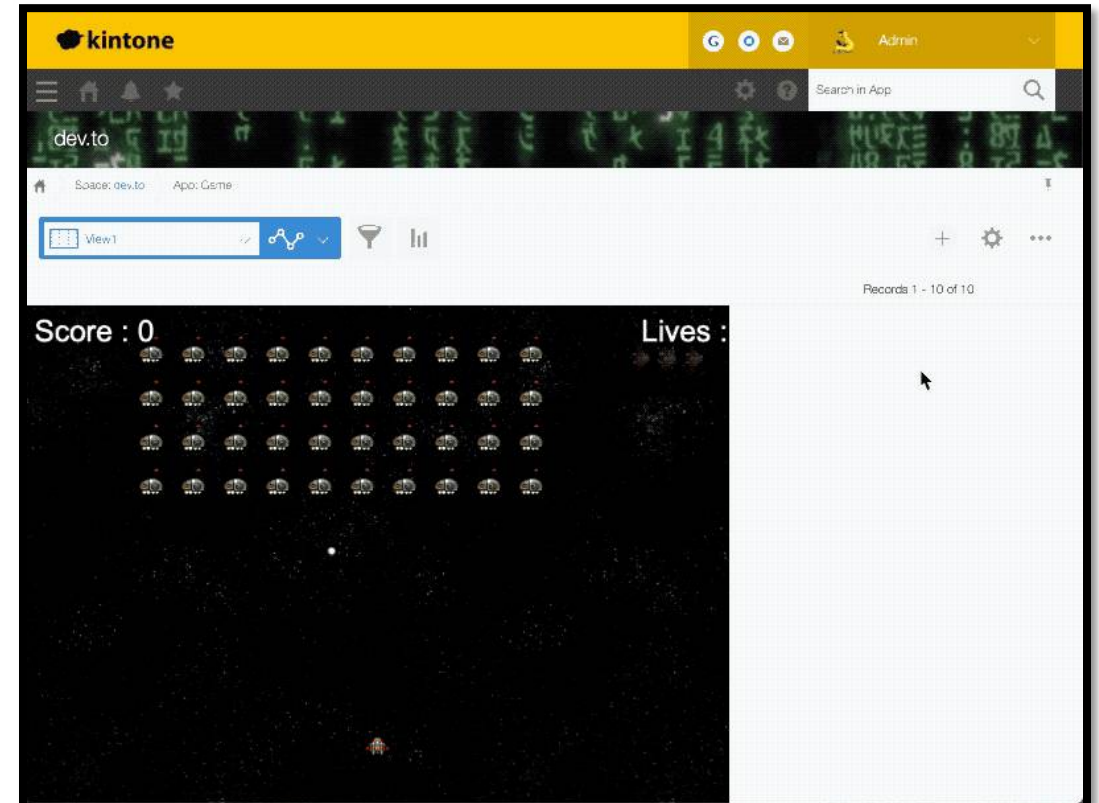
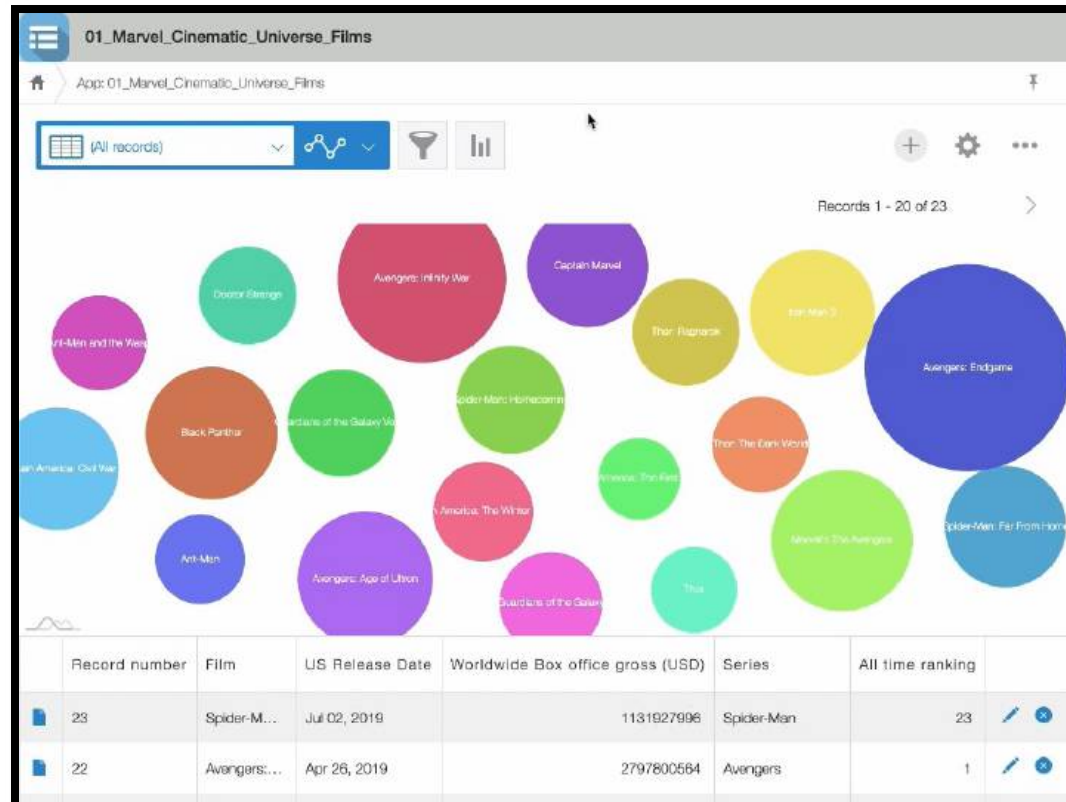
Tools Inside Kintone

- 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

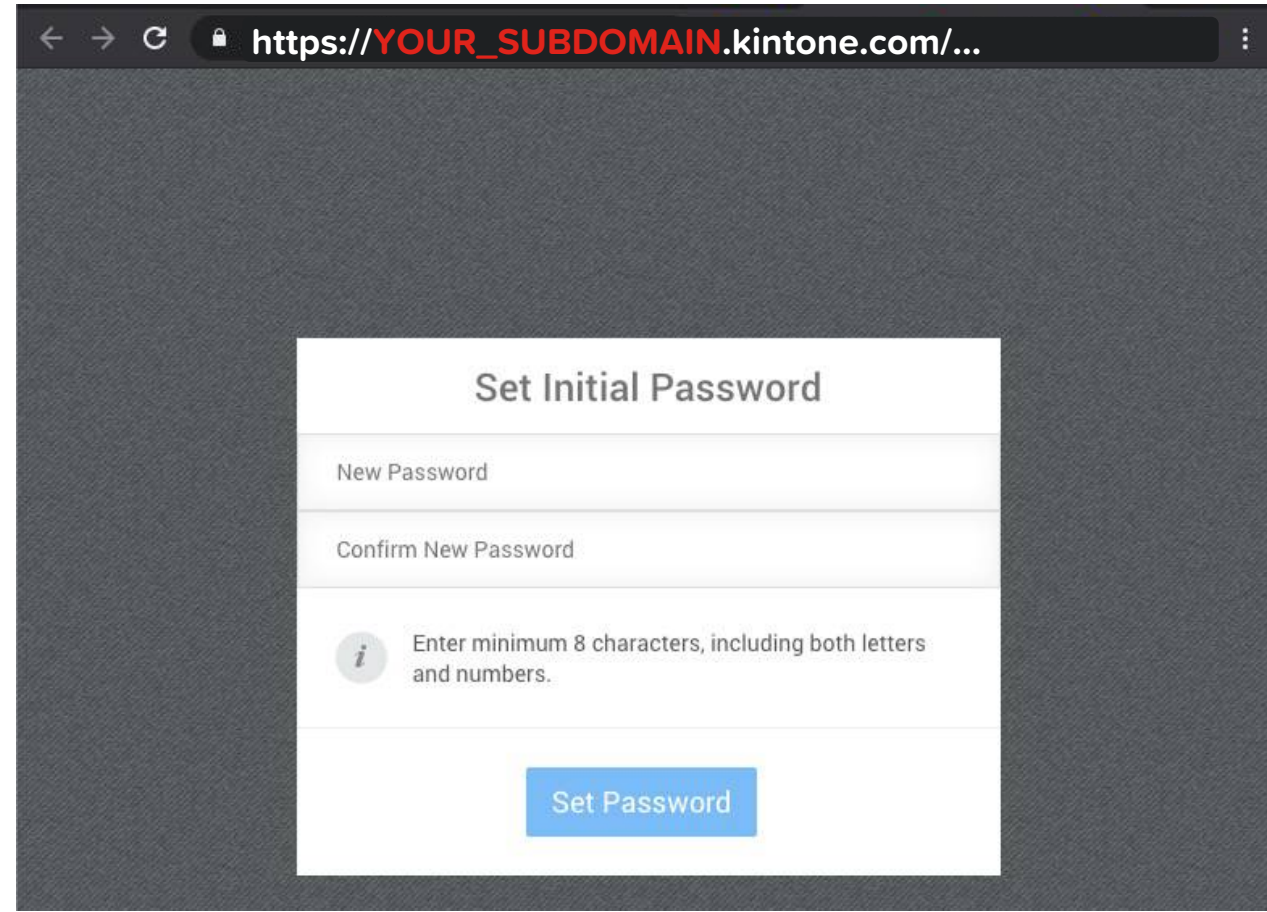
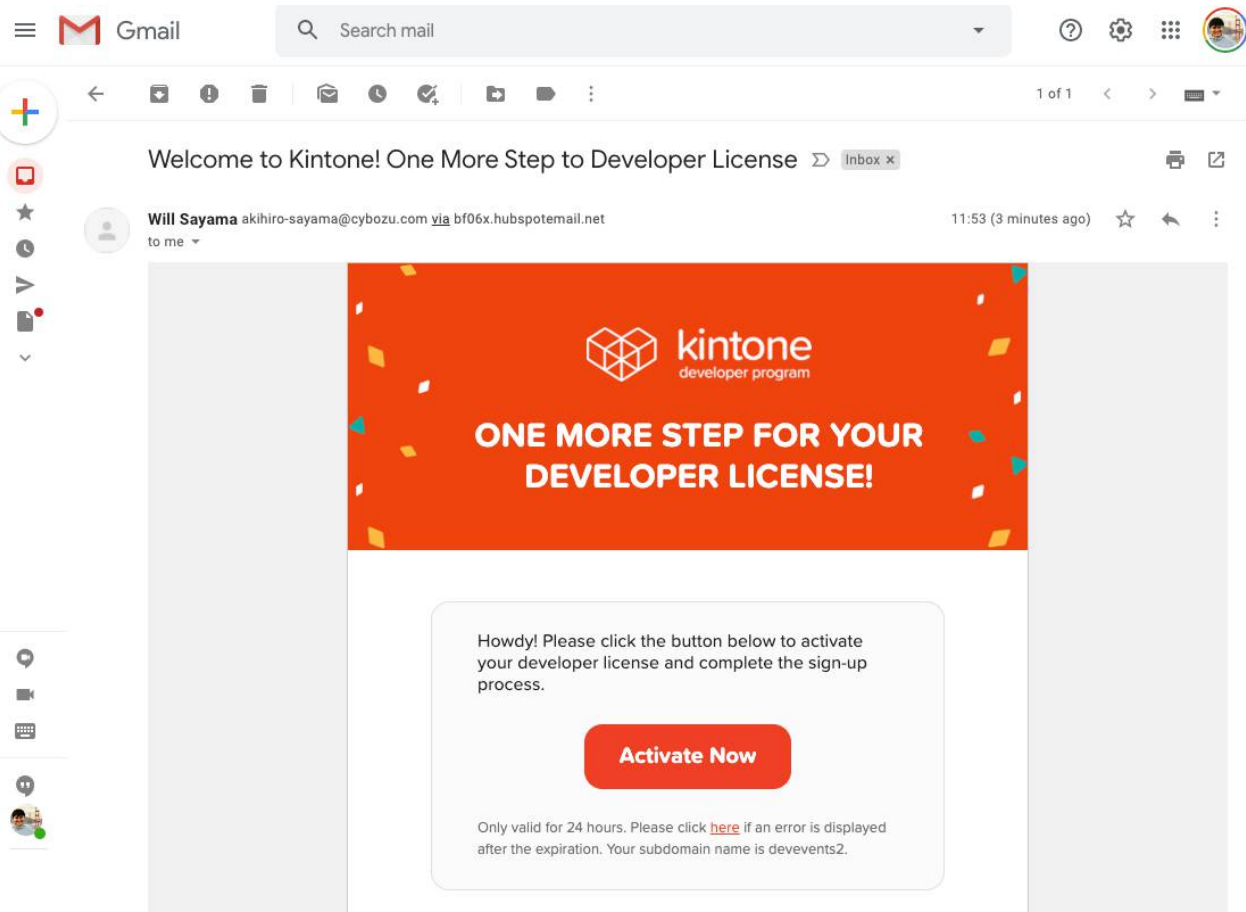
Step-By-Step Guide



Check Your Email

Welcome to Kintone! One More Step To...

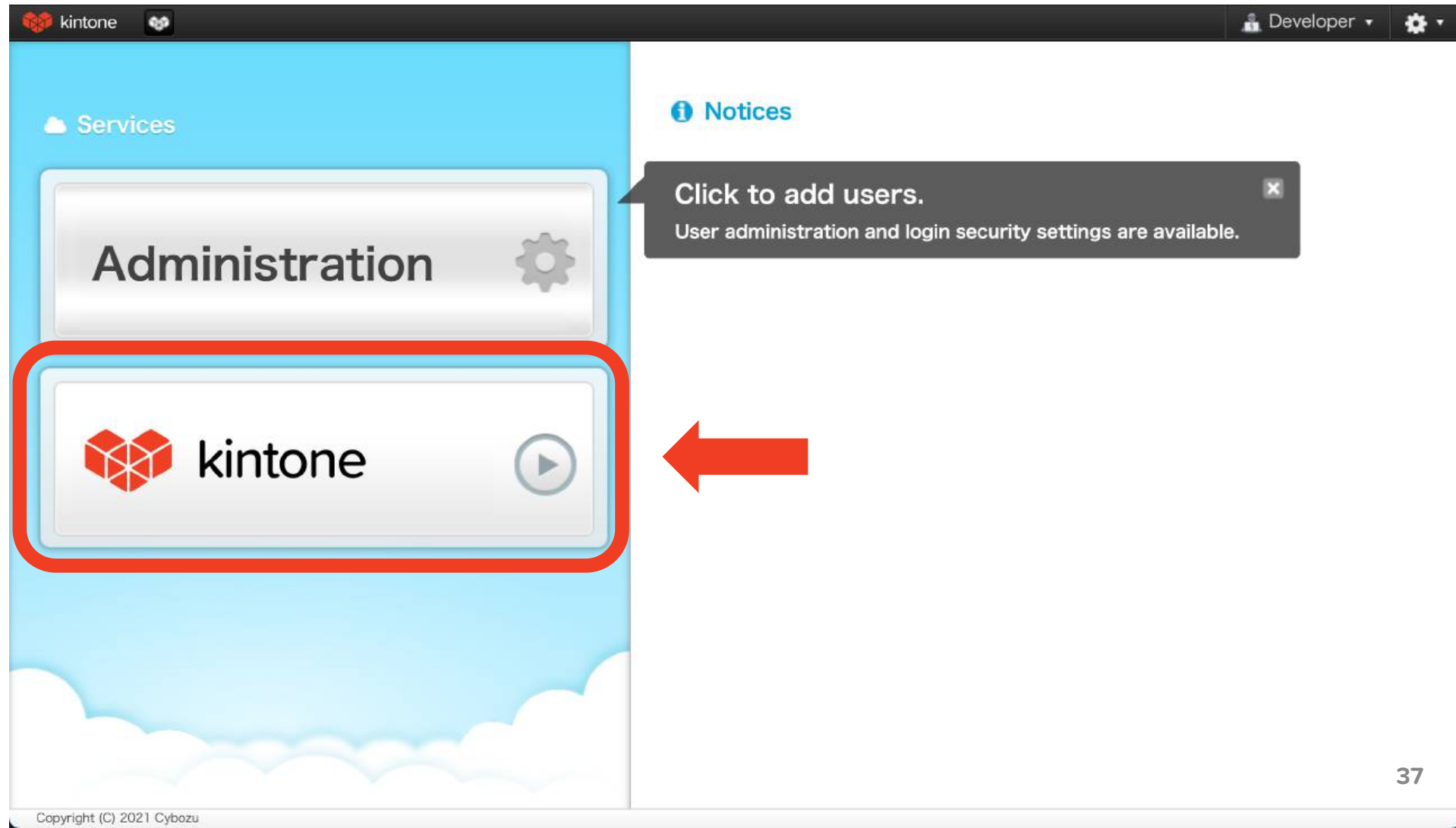
YOUR_SUBDOMAIN.kintone.com



Let's Log into Kintone

Click on Kintone button on the Left side

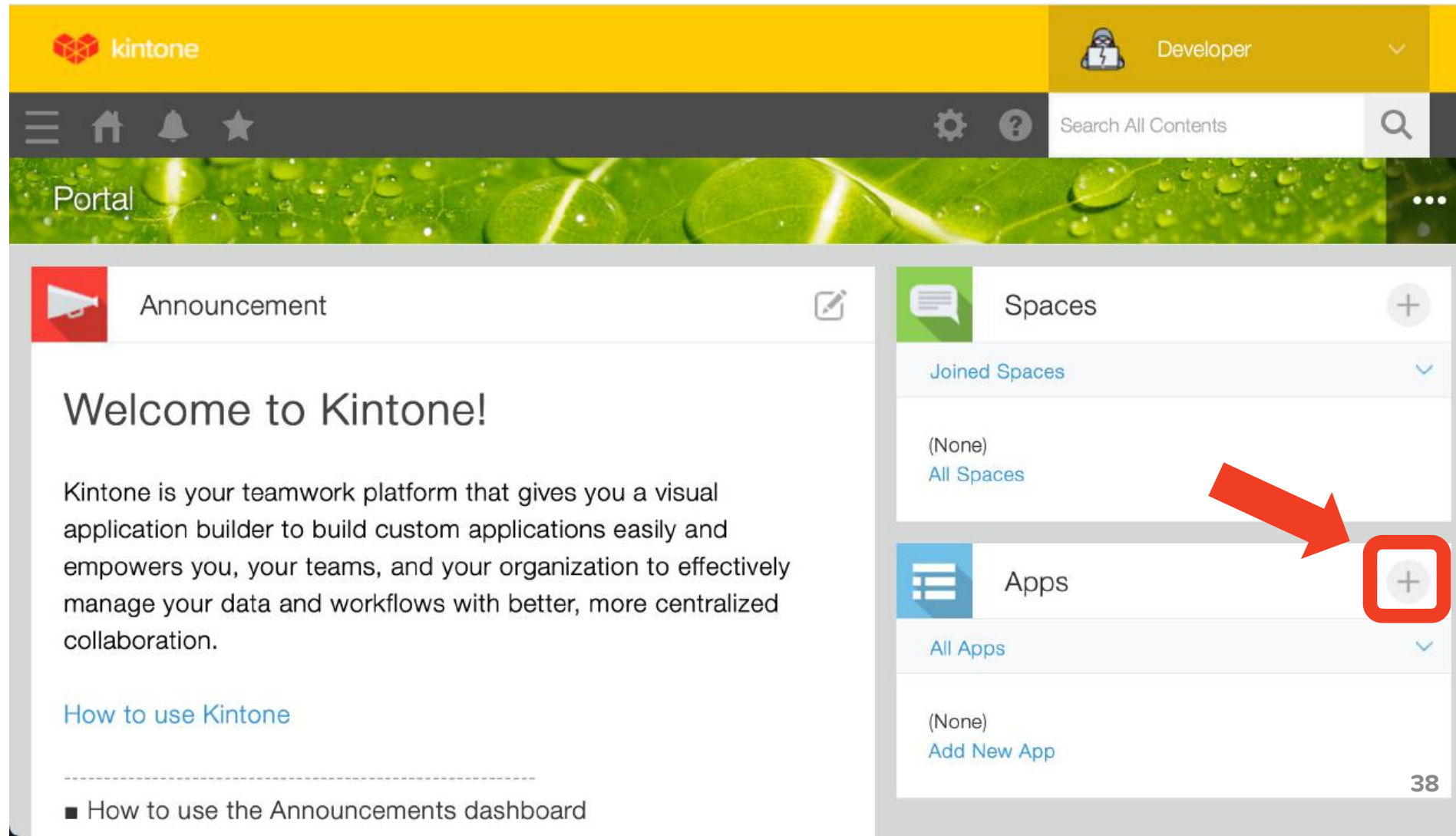
The email has the initial registration link & subdomain



Create a Kintone Database App

From the Portal
screen

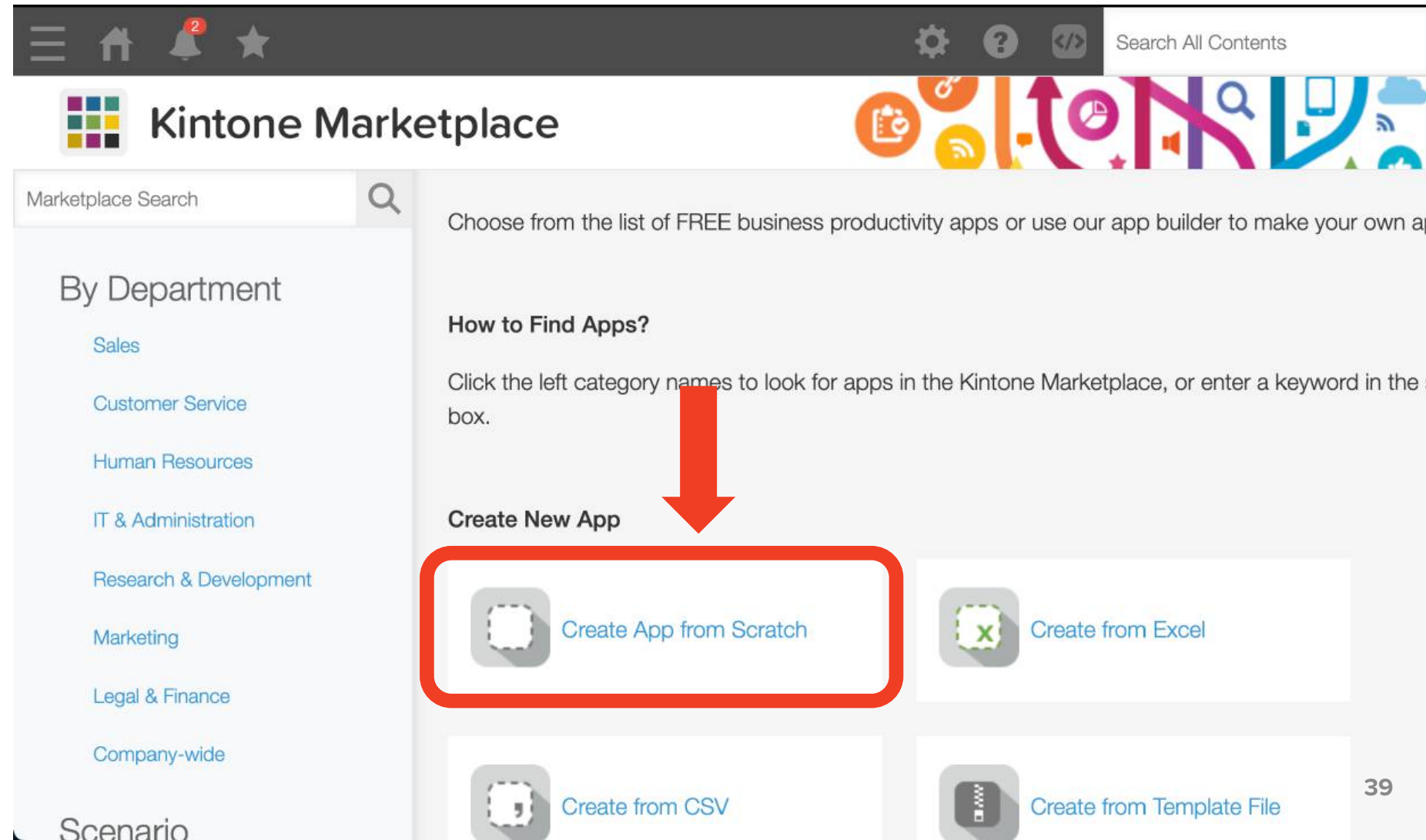
Click the
[+] button
on the
Right side



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
"Customer
Onboarding"

Kintone Marketplace > New App > Settings

New App

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

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

Form Views Graphs App Settings

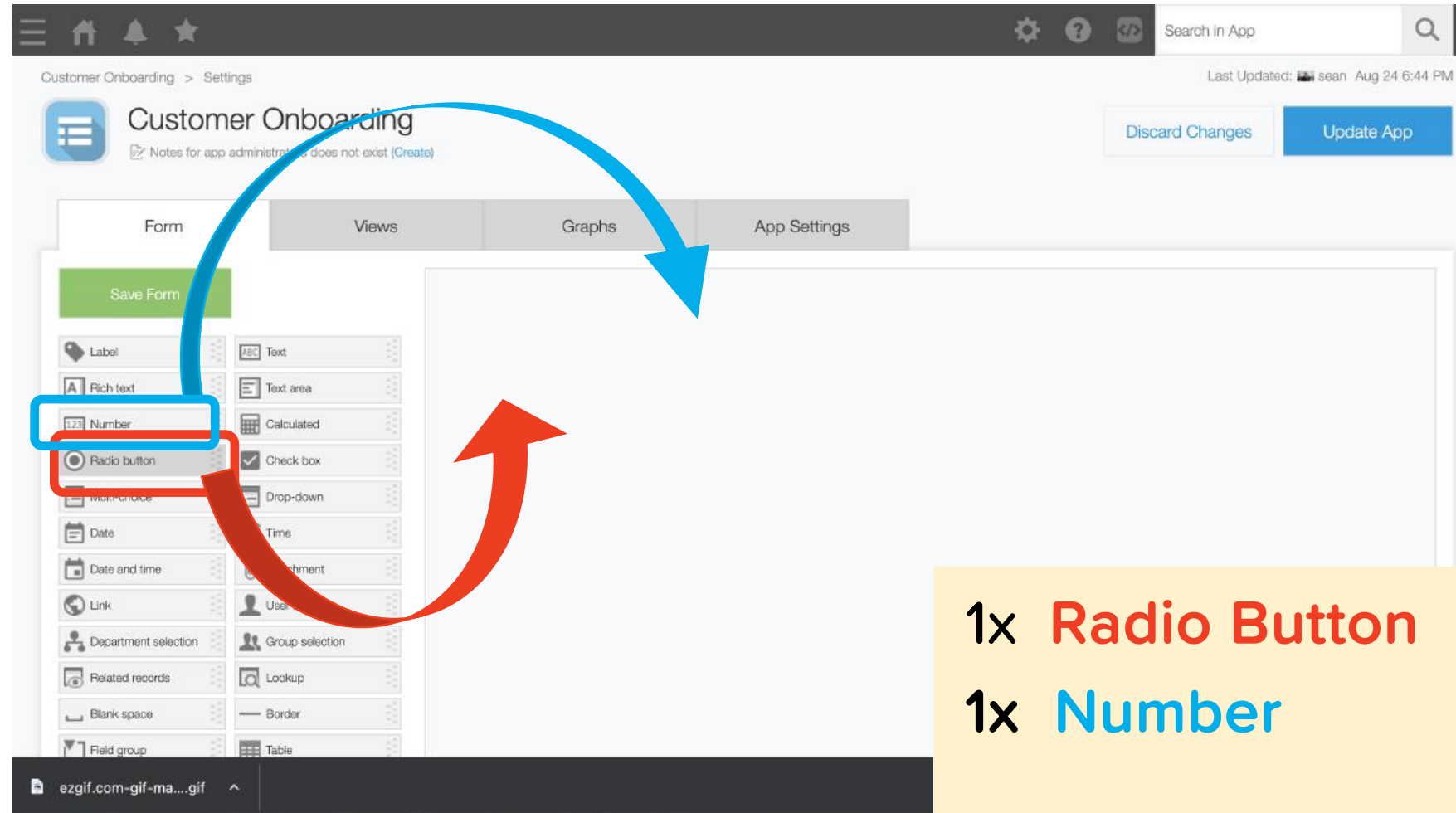
Save Form

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 App

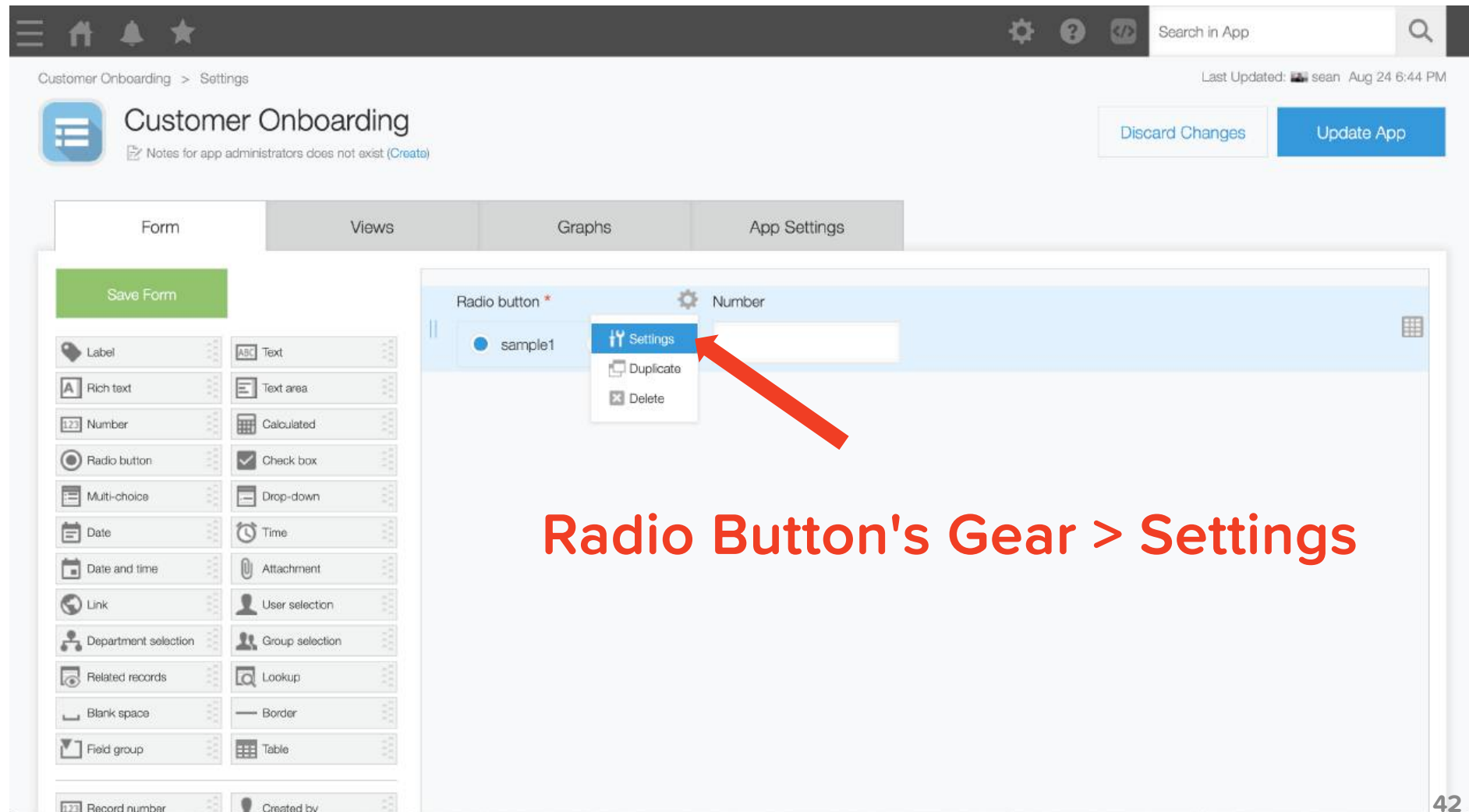
Drag & drop following fields into the middle area



Configure Fields

Click on the **Gear** on the radio button's left corner.

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



Inside the Radio Button Settings

Click on the **Gear** from the Radio Button's top right corner.

Edit the
Name
&
Field Code
&
Options

The screenshot shows the 'Radio Button Settings' dialog box. The background is a blurred view of the 'Customer Onboarding' app settings. The dialog box has a title bar with a gear icon and the text 'Radio Button Settings'. Below the title bar is a 'Help' link. The main content area is divided into sections: 'Name', 'Options', 'Layout', 'Default Value', and 'Field Code'. The 'Name' section has a text input field with the value 'Completed'. The 'Options' section has a list of options: 'No' and 'Yes'. The 'Layout' section has radio buttons for 'Horizontal' (selected) and 'Vertical'. The 'Default Value' section has a dropdown menu with 'No' selected. The 'Field Code' section has a text input field with the value 'completed'. There are 'Save', 'Cancel', and 'Update App' buttons. Three red callout boxes with arrows point to specific fields: 'Change the Name to "Completed"' points to the 'Name' field, 'Add two options: "No" and "Yes"' points to the 'Options' list, and 'Change the Field Code to "completed" ! Case sensitive!' points to the 'Field Code' field.

Customer Onboarding > Settings

Radio Button Settings

Help

Name *

Completed

☐ Hide field name

Options

No

Yes

Layout

☒ Horizontal ☐ Vertical

Default Value

No

Field Code *

completed

Save

Cancel

Save

Change the Name to "Completed"

Add two options: "No" and "Yes"

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

Inside the Number Field Settings

Click on the **Gear** in the Number field's top right corner.

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

Customer Onboarding > Settings

Customer Onboarding

Notes for app administrators does not exist (Create)

Form Views Graphs App Settings

Save Form

Completed *

No Yes

Number

Settings Duplicate Delete

Change the Name to "Percent"

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

Does Your App Look Like This?

We changed...

- Title
- 1x Radio Button
- 1x Number

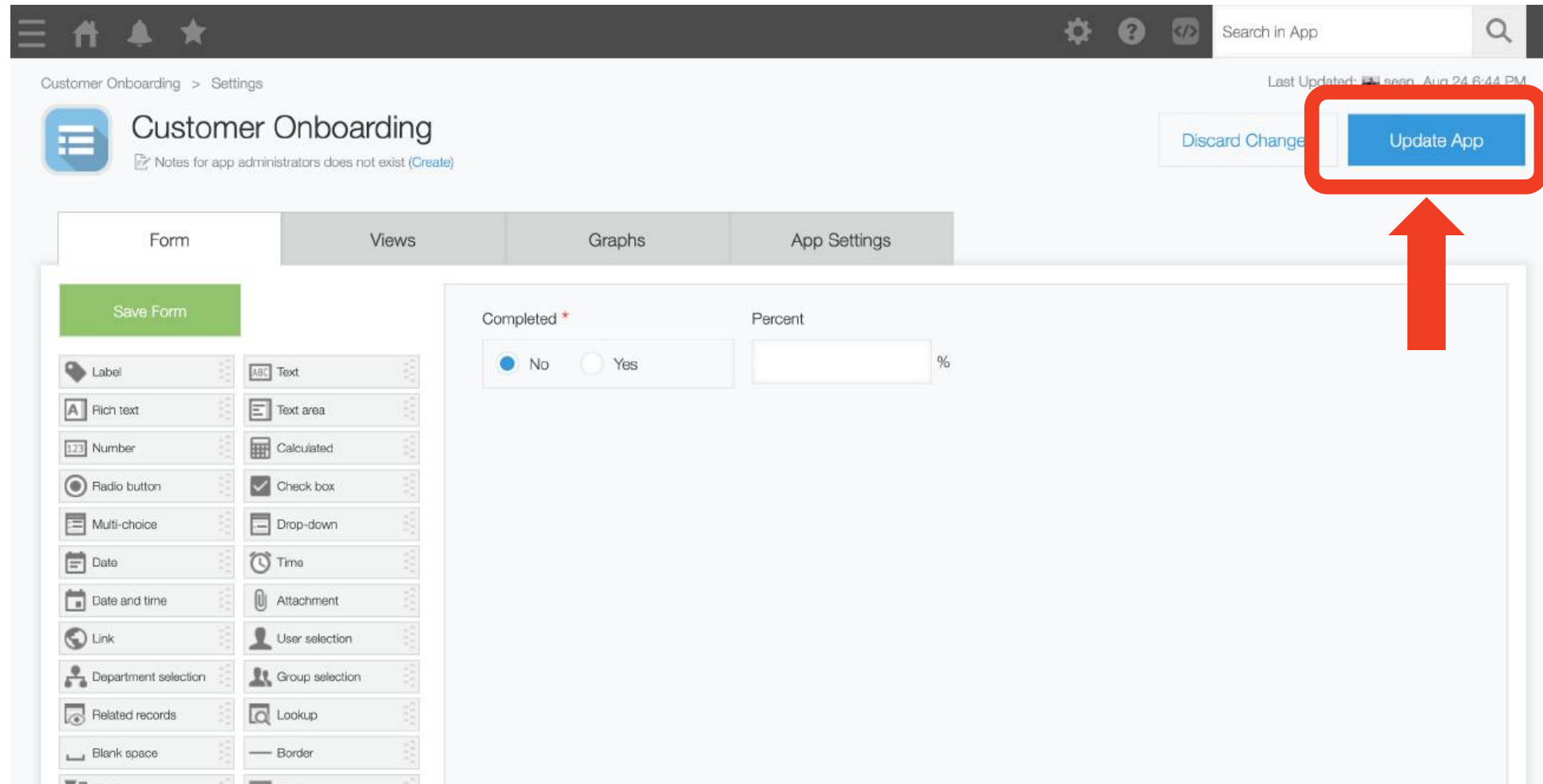
Set the fields'

- **Names**
- **Field Codes**

The screenshot shows the 'Customer Onboarding' app settings page. The top navigation bar includes a search bar and icons for settings, help, and code. The page title is 'Customer Onboarding' with a subtitle 'Notes for app administrators does not exist (Create)'. The 'Form' tab is selected, showing a 'Save Form' button and a list of field types: Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Link, Department selection, Related records, Blank space, Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User selection, Group selection, Lookup, and Border. The 'Completed' field is highlighted, showing a radio button for 'No' (selected) and 'Yes', and a 'Percent' field with a percentage sign.

Activate the Kintone Database App

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



Connect Kintone to the Project

1. Kintone Subdomain

2. App ID

3. API Token



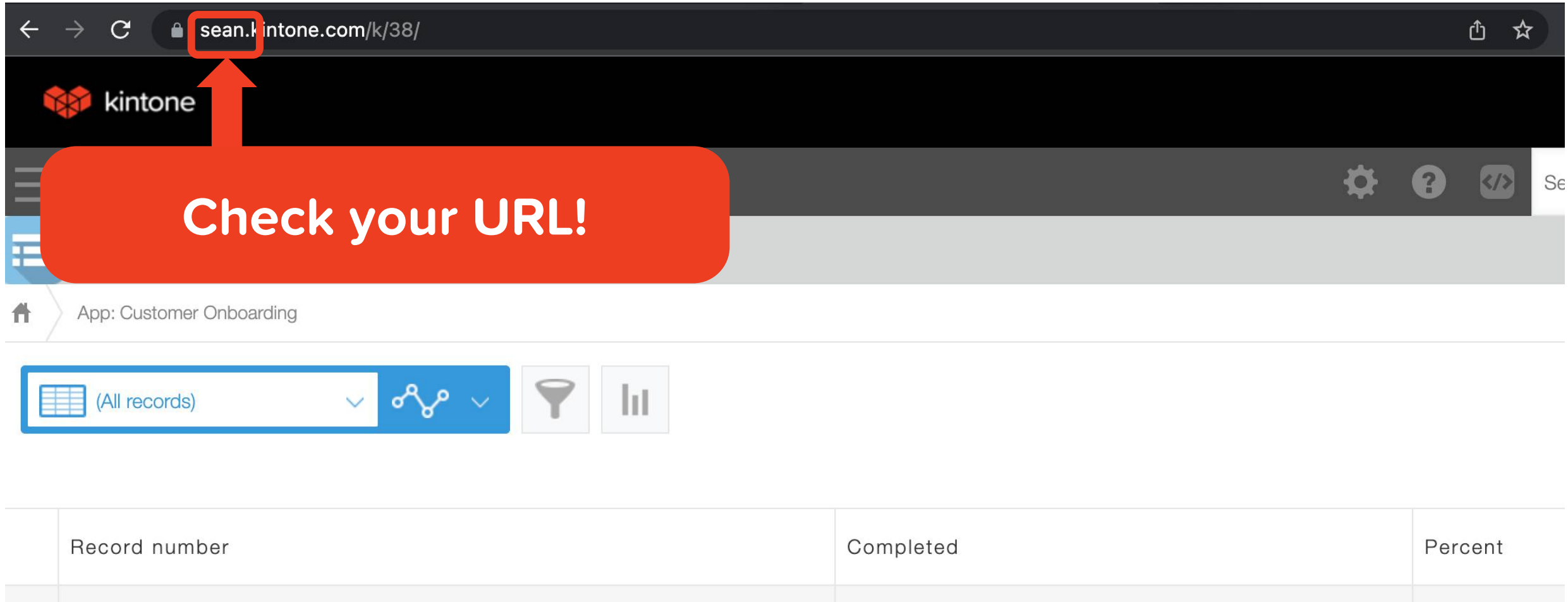
Go inside the .env.example file

- **.env.example** file is used to verify that **.env** file is correctly configured

```
SUBDOMAIN = "example"  
APPID = "1"  
APITOKEN = "sfJi820Xf39DSfjie"
```

- **Duplicate** this file & name it **".env"**

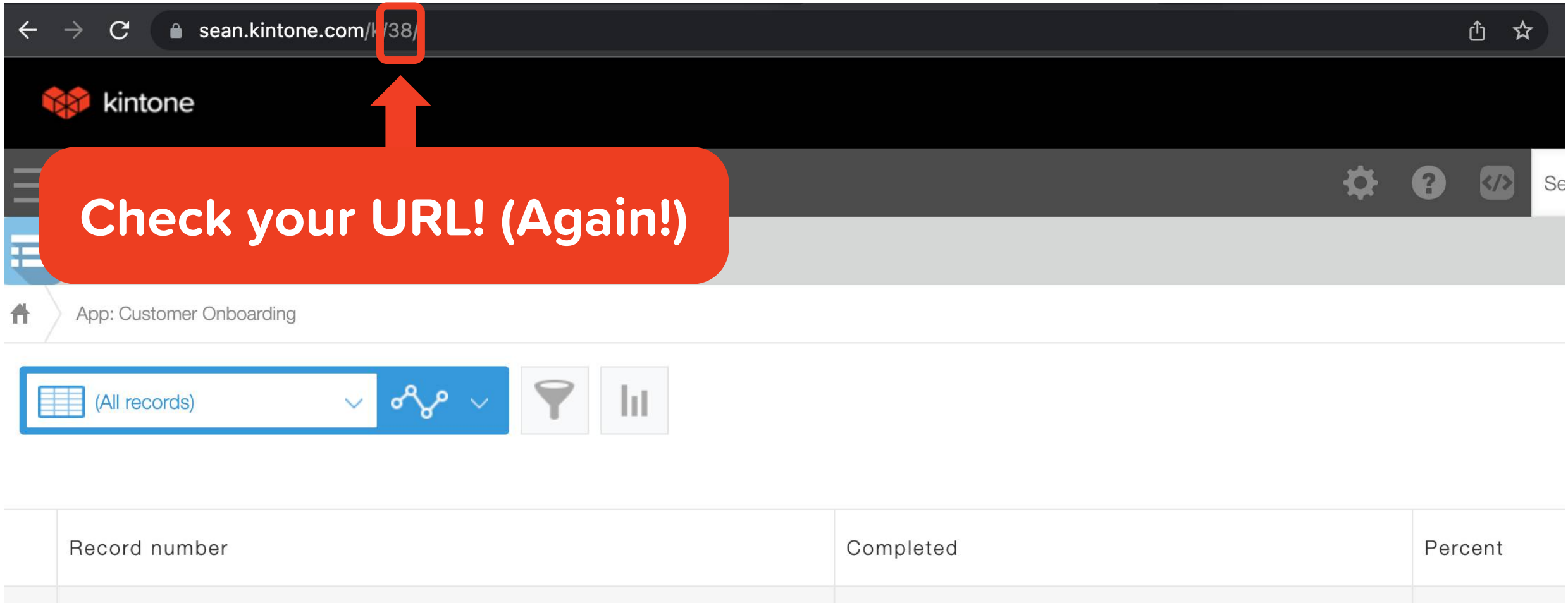
Where to get my Kintone Subdomain?



The screenshot shows a web browser with the address bar displaying `sean.kintone.com/k/38/`. The subdomain `sean.kintone.com` is highlighted with a red box, and a red arrow points from a red callout box below it to this subdomain. The callout box contains the text "Check your URL!". The Kintone logo is visible in the top left of the application interface. Below the header, the text "App: Customer Onboarding" is displayed. The main content area includes a toolbar with a table icon labeled "(All records)", a share icon, a funnel icon, and a bar chart icon. Below the toolbar, a table is visible with the following headers:

Record number	Completed	Percent

Where to get my App ID?



The screenshot shows a web browser window with the URL `sean.kintone.com/k/38/`. A red box highlights the `38` in the URL, and a red arrow points from a red callout box below it to this number. The callout box contains the text "Check your URL! (Again!)". The Kintone logo is visible in the top left of the browser window. Below the browser window, the Kintone interface shows the app name "App: Customer Onboarding" and a table with the following columns: "Record number", "Completed", and "Percent".

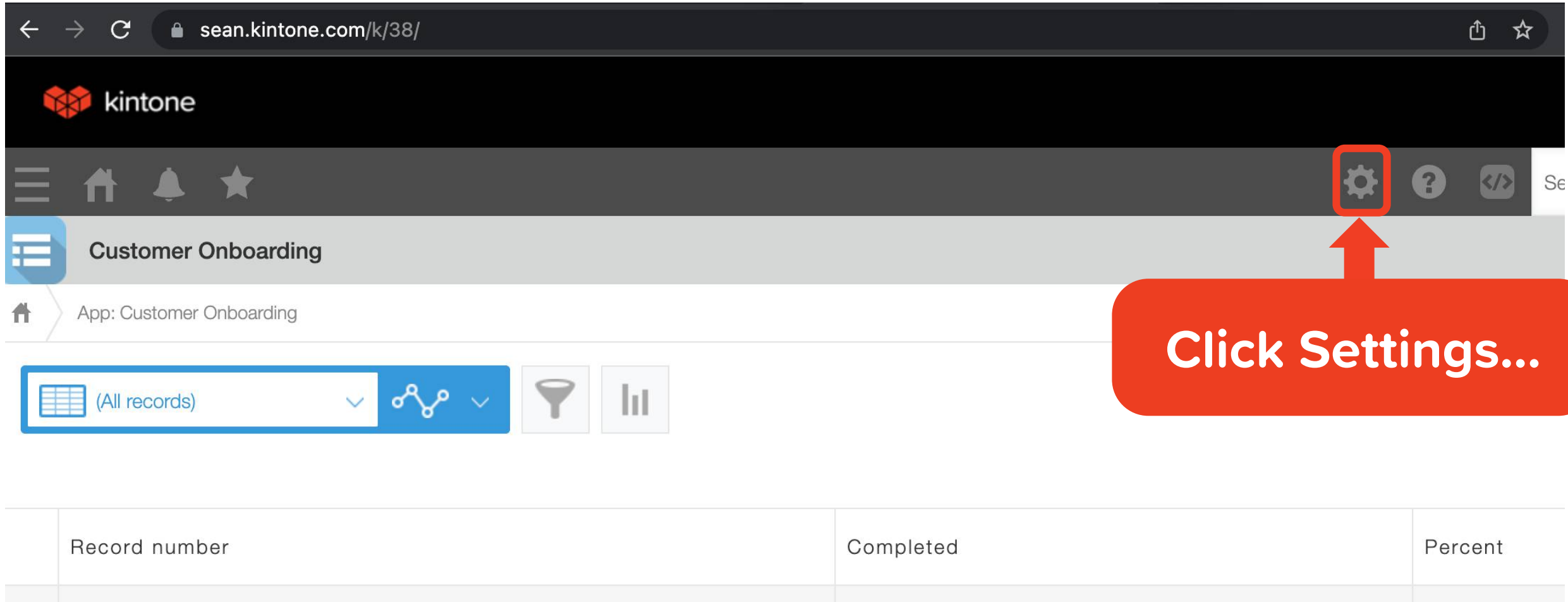
Check your URL! (Again!)

App: Customer Onboarding

(All records)

Record number	Completed	Percent

Where to get my API Token?



The screenshot shows the Kintone web interface. The browser address bar displays `sean.kintone.com/k/38/`. The Kintone logo is in the top left. The top navigation bar contains icons for home, notifications, and settings (a gear icon). The settings icon is highlighted with a red box, and a red arrow points from a red callout box labeled "Click Settings..." to it. Below the navigation bar, the page title is "Customer Onboarding". The main content area shows a table with the following columns: "Record number", "Completed", and "Percent".

Record number	Completed	Percent

Customer Onboarding > Settings

Last Updated:  sean 1:23 AM



Customer Onboarding

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

[Discard Changes](#)

[Update App](#)

- Form
- Views
- Graphs
- App Settings

⚙️ General Settings

Appearance

Color Theme

Process Management

🔔 Notifications

General Notifications

Per Record Notifications

⚙️ Advanced Settings

JavaScript and CSS Customization

Localization

API Token

Webhooks

🔒 Permissions

App

Actions

🔒 Management

App Settings...

API Token...

Save Cancel

API Token [? Help](#)

Manage the authentication
You can create an API token
Example: curl -H "X-Cybozu"

Generate

Click Generate and...

API Token

pKwnYpZ4qnG1UNS6buNMXm6btJ3nubwJfnKcFDzz

Permissions

☒ View records ☒ Add records ☒ Edit records ☐ Delete records
☐ Manage app

Notes



Make sure to give yourself permissions!

Customization samples

[Kintone Customization Gallery](#)

Community support



[Kintone Developer Program](#)

Time to Explore the Code

1. Code overview
2. Create our onboarding experience
3. Refactor our code into components



Three Goals Today

1. Fill out our grid contents
2. Create a ShepherdJS Tour for our contents
3. Refactor our React App for organization

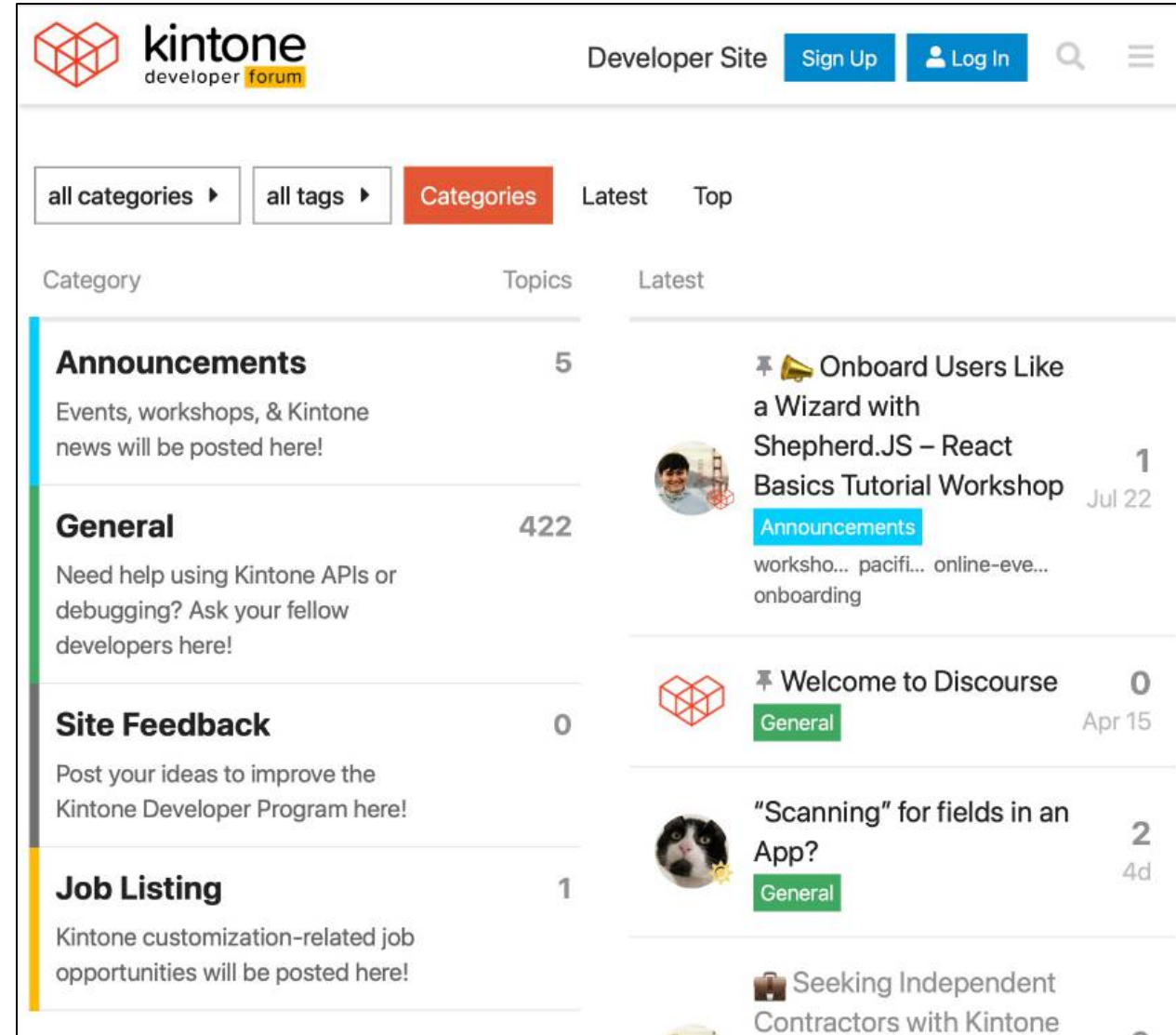


Where Can I Get Help?





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

Kintone Developer Forum

forum.kintone.com



The screenshot shows the Kintone Developer Forum interface. At the top, there's a header with the Kintone logo, "Developer Site", "Sign Up", and "Log In" buttons. Below the header, there are filters for "all categories", "all tags", and a "Categories" button. The main content area is divided into two columns. The left column lists categories: "Announcements" (5 topics), "General" (422 topics), "Site Feedback" (0 topics), and "Job Listing" (1 topic). The right column shows a list of topics. The first topic is "Onboard Users Like a Wizard with Shepherd.JS – React Basics Tutorial Workshop" by a user with a profile picture, dated Jul 22, with 1 reply. The second topic is "Welcome to Discourse" by a user with a Kintone logo profile picture, dated Apr 15, with 0 replies. The third topic is "Scanning for fields in an App?" by a user with a cat profile picture, dated 4d, with 2 replies. The fourth topic is "Seeking Independent Contractors with Kintone" by a user with a dog profile picture.

Category	Topics	Latest
Announcements Events, workshops, & Kintone news will be posted here!	5	 Onboard Users Like a Wizard with Shepherd.JS – React Basics Tutorial Workshop 1 Jul 22 Announcements worksho... pacifi... online-eve... onboarding
General Need help using Kintone APIs or debugging? Ask your fellow developers here!	422	 Welcome to Discourse 0 Apr 15 General
Site Feedback Post your ideas to improve the Kintone Developer Program here!	0	 "Scanning" for fields in an App? 2 4d General
Job Listing Kintone customization-related job opportunities will be posted here!	1	 Seeking Independent Contractors with Kintone



Any
Questions?

kintone.dev

Thank You!



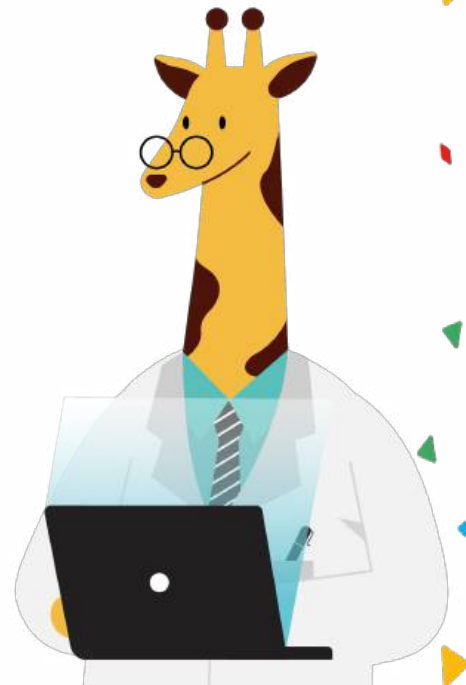
Join Our Future Workshops!

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



Join our Meetup to not miss out!

bit.ly/KDP_Events



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

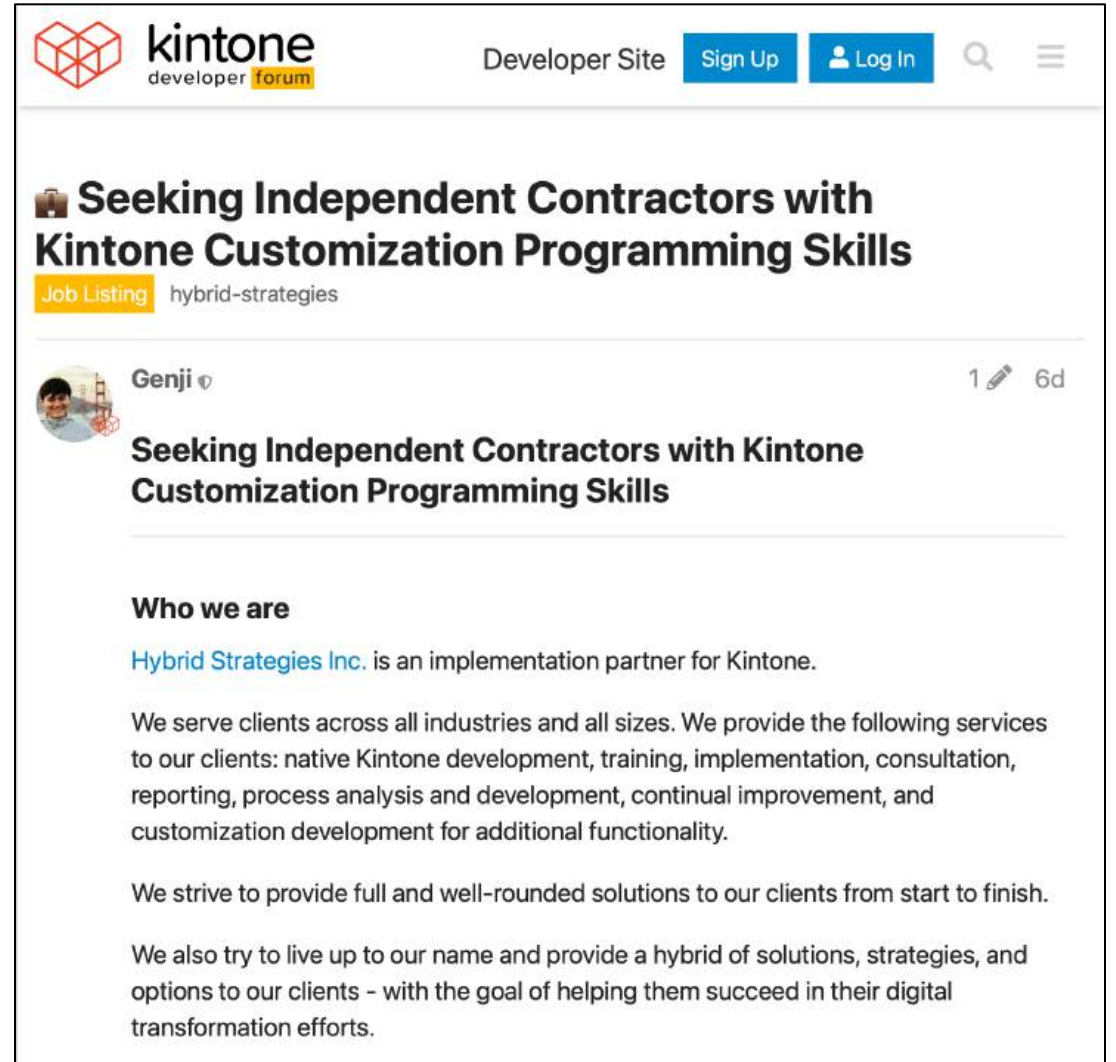
Want a Job?

Our US Partners are looking for programmers to build out Kintone Customizations!

Interested?

Check out the Job Listing Thread over at our Kintone Developer Forum

forum.kintone.dev/c/job-listing/



The screenshot shows a forum post on the Kintone Developer Forum. The header includes the Kintone logo, 'Developer Site', 'Sign Up', and 'Log In' buttons. The post title is 'Seeking Independent Contractors with Kintone Customization Programming Skills' with a 'Job Listing' tag and 'hybrid-strategies' as the category. The author is 'Genji'. The post content describes 'Hybrid Strategies Inc.' as an implementation partner for Kintone, listing services like native Kintone development, training, implementation, consultation, reporting, process analysis, and customization development. It also mentions a goal of helping clients succeed in their digital transformation efforts.

kintone
developer forum

Developer Site Sign Up Log In

Seeking Independent Contractors with Kintone Customization Programming Skills
Job Listing hybrid-strategies

Genji

1 6d

Seeking Independent Contractors with Kintone Customization Programming Skills

Who we are

Hybrid Strategies Inc. is an implementation partner for Kintone.

We serve clients across all industries and all sizes. We provide the following services to our clients: native Kintone development, training, implementation, consultation, reporting, process analysis and development, continual improvement, and customization development for additional functionality.

We strive to provide full and well-rounded solutions to our clients from start to finish.

We also try to live up to our name and provide a hybrid of solutions, strategies, and options to our clients - with the goal of helping them succeed in their digital transformation efforts.

Thank You for Your Participation!

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



bit.ly/22SEPT