

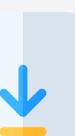


Welcome to the **React x Kintone x Shepherd Workshop!**

**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](#)

Make sure to
check it out!

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



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

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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 Easy to use backend / Database
 Making plugins for clients
 My workplace uses it
 Not sure yet!

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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!

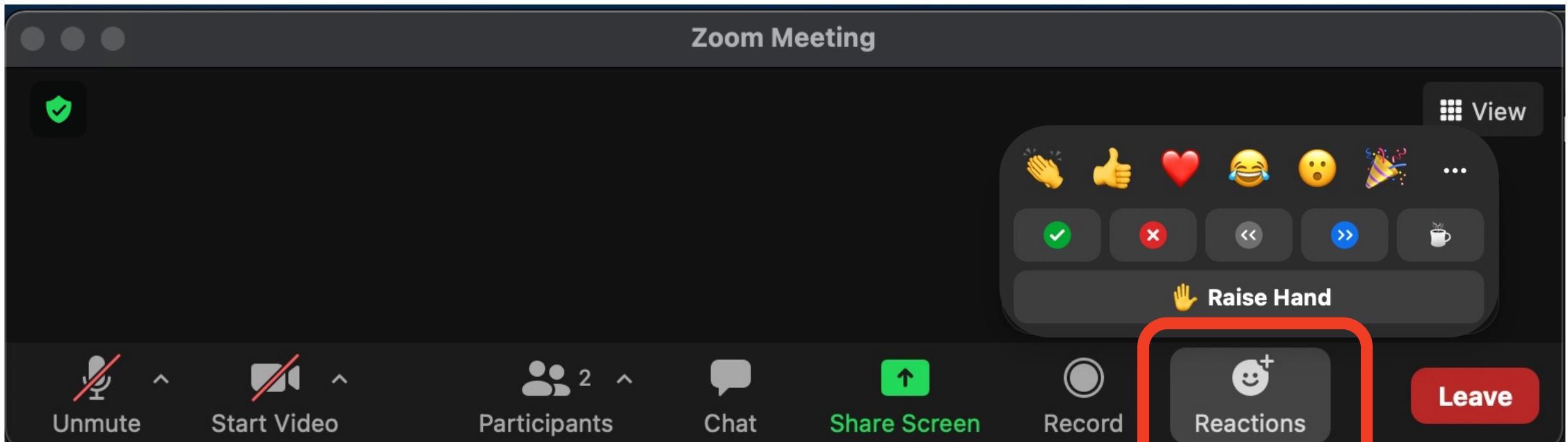
Errors related to .env

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

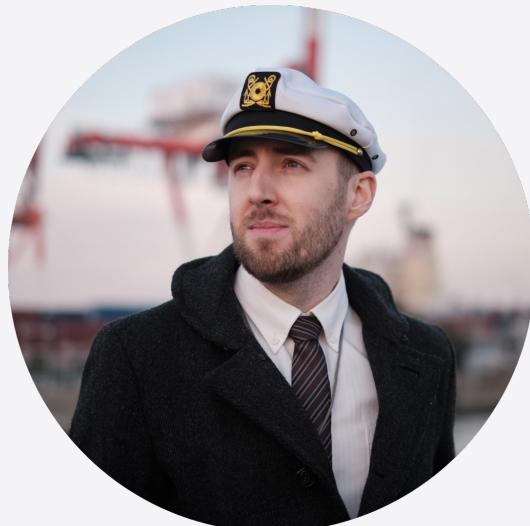


This helps us know who to look out for throughout this workshop.



Hello From Kintone

Sean



Genji

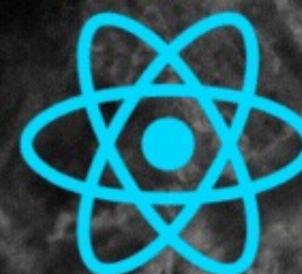
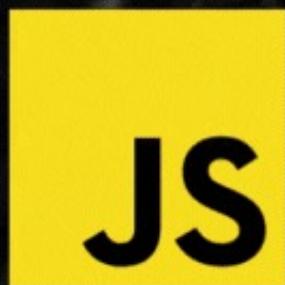


Will



Learn React & Shepherd.JS

Join Us for a
Free Online Workshop
Aug 25 @ 6pm PDT



Build an
Onboarding
Guide

Free \$25
Gift Card
Raffle

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

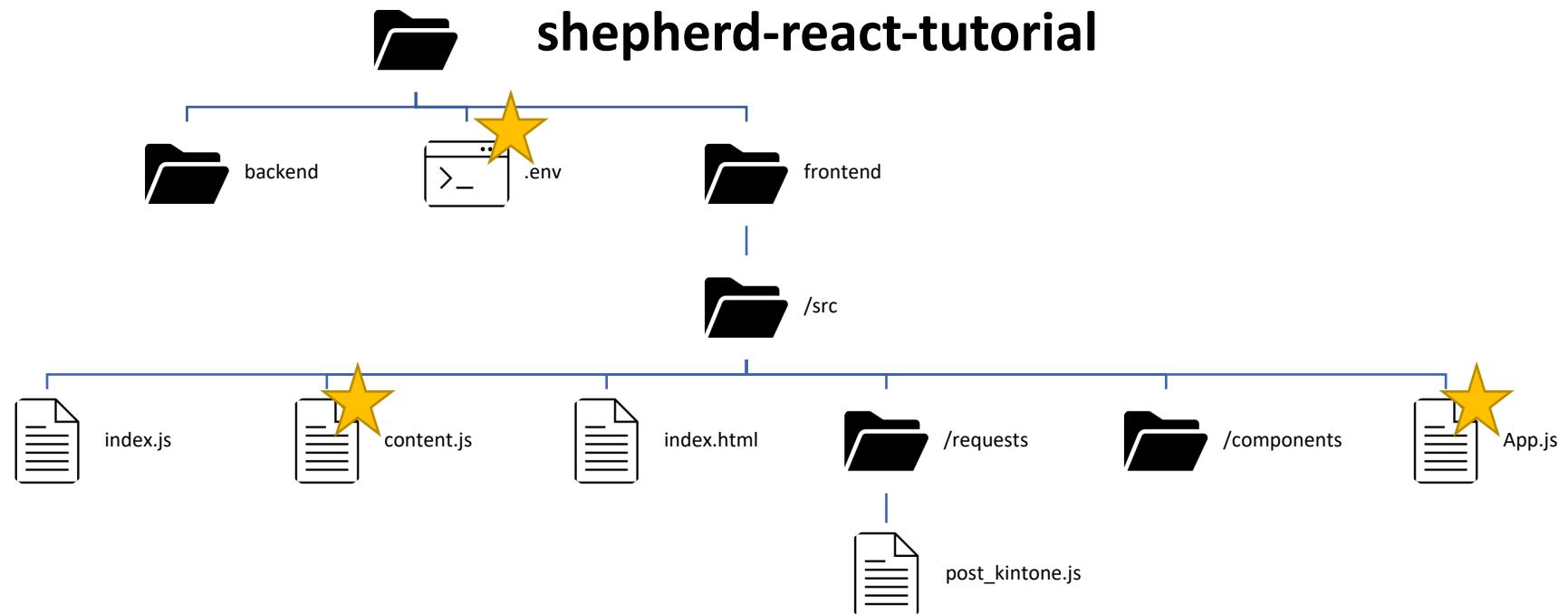
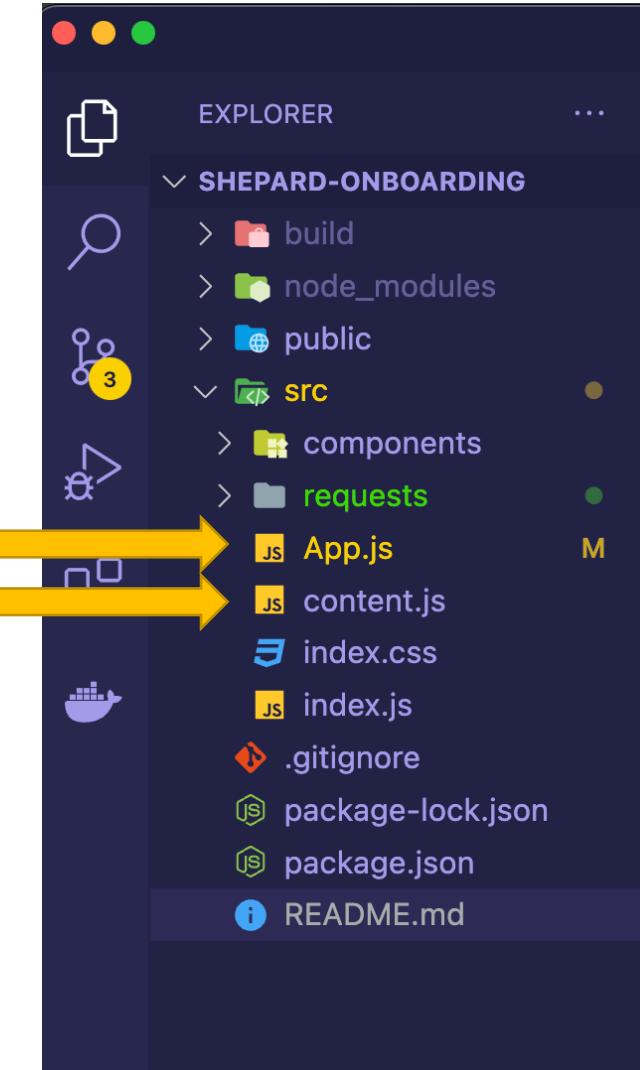
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2. Go inside the folder & install the dependencies!

Run these commands
from your terminal

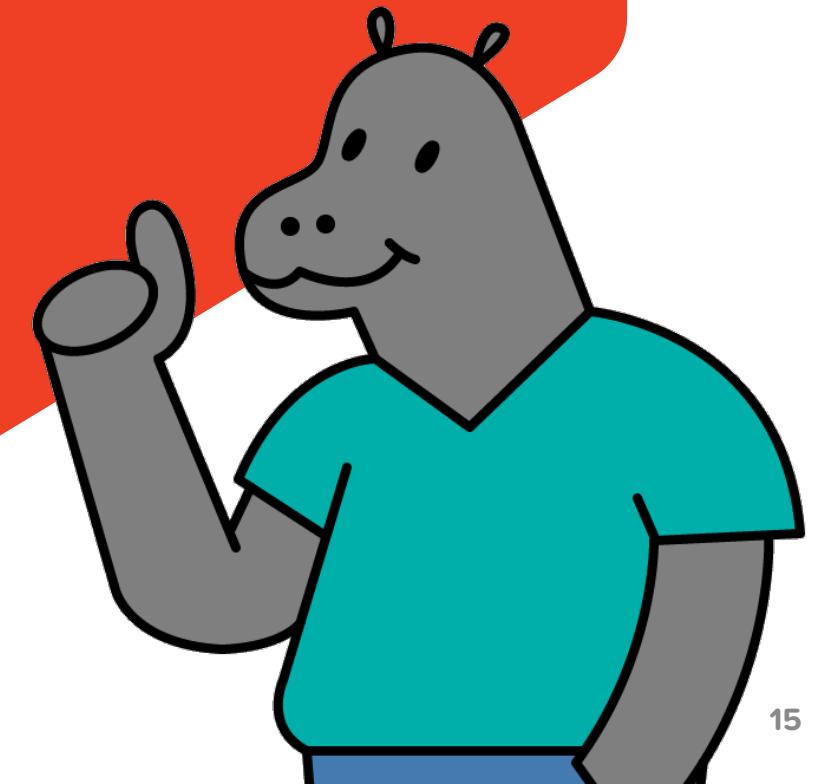
```
cd Downloads  
git clone https://github.com/sean-kintone/shepherd-react-tutorial  
cd shepherd-react-tutorial/backend  
npm install && npm start  
cd ../frontend  
npm install && npm start
```

Overview of the Repo

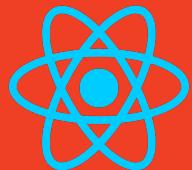


**★ Files We Will
Be Editing**

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

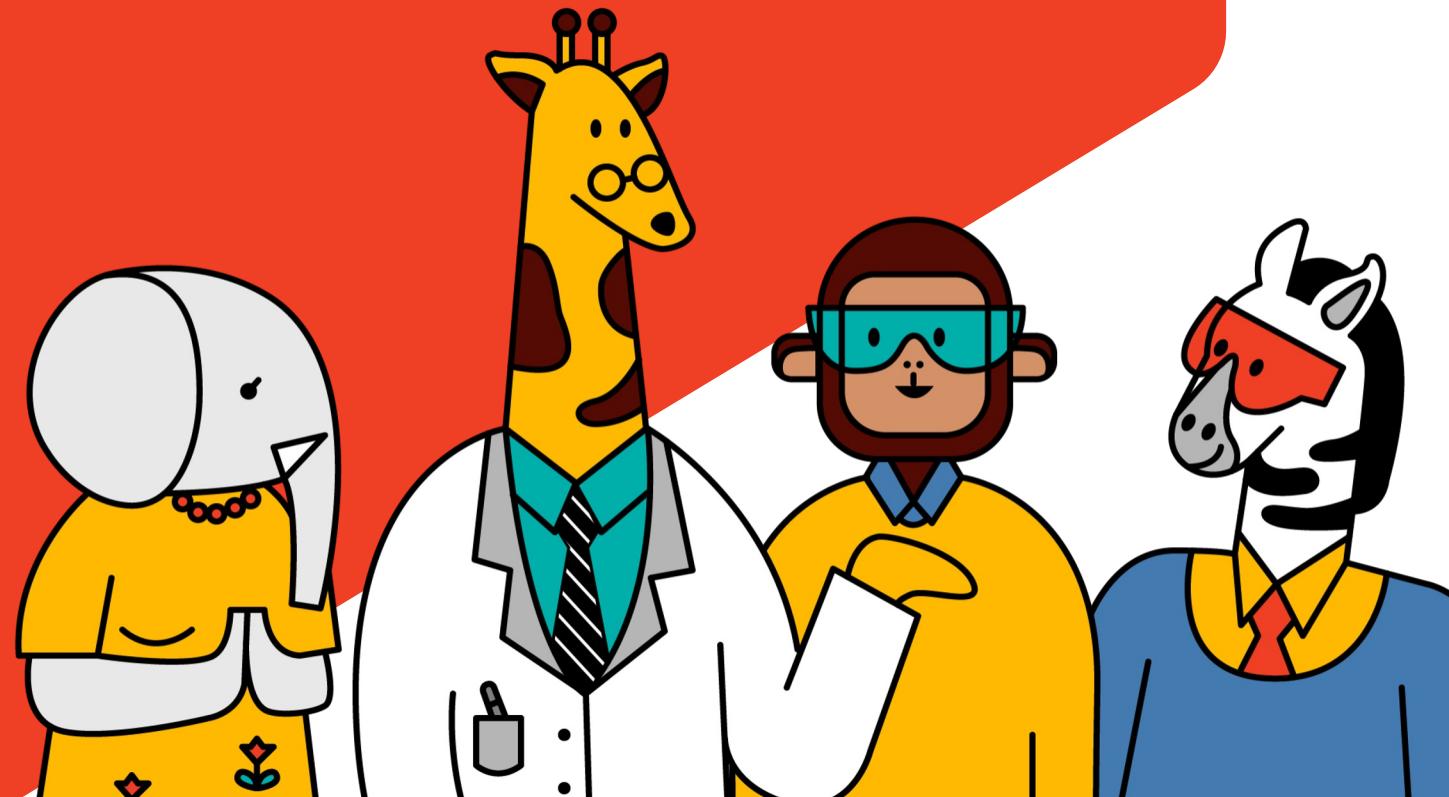
- Vast majority of web traffic will leave your site within 1 minute.
- Onboarding helps user retention, improve sales, and increase understanding

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?



The screenshot displays the Kintone interface with several panels:

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

Dashboard: Contains two charts:

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

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

Where Kintone is Special!



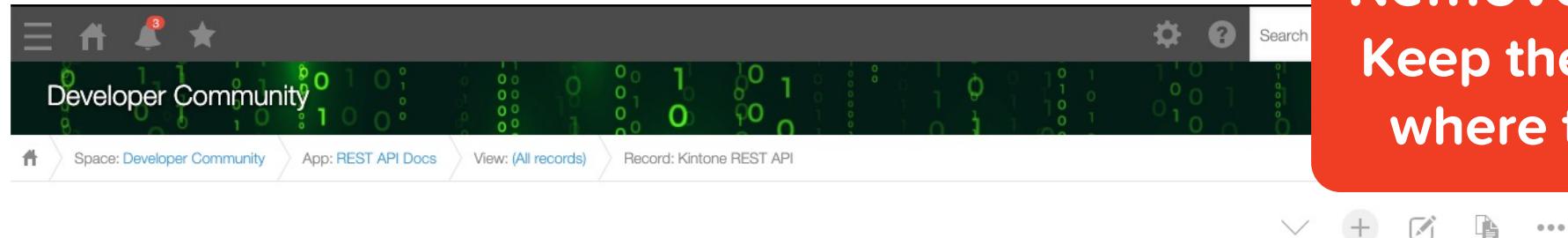
Missing - Unified Communication

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

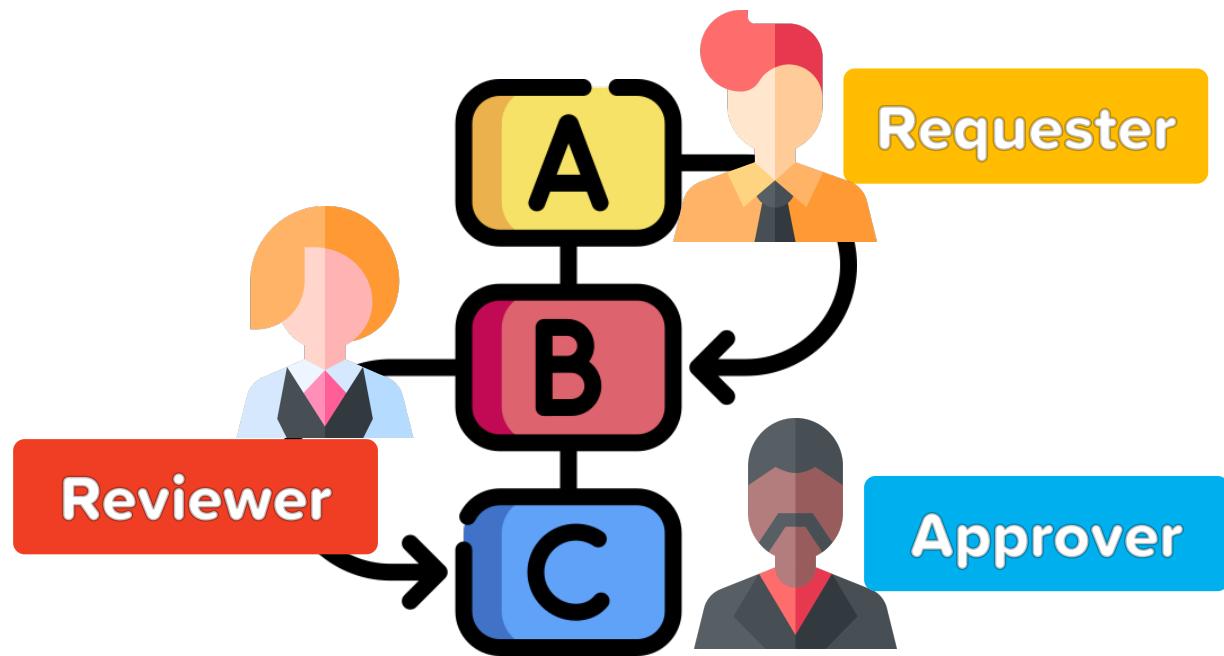
A screenshot of the Kintone REST API Docs interface, identical to the one above but with a blue border. It shows the same table of contents and fix history table.

A screenshot of a communication feed. The top bar says 'Write your comment here.' A message from '3: Clare - Support' (@Sharon - Developer @Genji) says 'Done!' with 'Like' and 'Reply' buttons. A message from '2: Sharon - Developer' (@Genji) says 'Oh, shoot, thanks for catching my mistake!' with 'Like' and 'Reply' buttons. A message from '1: Genji' (@Clare - Support) says 'Please take a look at this document.' with 'Like' and 'Reply' buttons.

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

Community

Project

Support

Event Image

Write your comment here.

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

1 Unlike Reply

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

Like Reply

No Server Data Visualization JS Build a Word Cloud!

Kintone Apps

The screenshot shows the Kintone Shared To Do app interface. At the top, there's a navigation bar with icons for home, search, and settings, along with a 'Search in App' field. Below the header, the title 'Shared To Do' is displayed, followed by a breadcrumb trail 'App: Shared To Do'. A descriptive text block states: 'To Do App with Process Management feature. All tasks assigned to you can be viewed under "Assigned to me" section on the portal page. Always be organized and on time by setting up reminders and visualizing team's progress through snazzy graphs.' The main area features a table with the following data:

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 interface also includes a 'My To Do' button, a process management icon, a filter icon, and a timeline icon in the toolbar.

The main building block in Kintone is an **App**.

Imagine an **App** as a powerful, online table where data is stored in records.

Kintone Apps

Sales & Leads > Settings

Last Updated: Mary Simpson 12:10 AM

Sales & Leads

Form Views Graphs App Settings

Save Form

Leads & Sales

Lead Title Sales Representative

Contact Info

Company Name Website

Contact Name Job Title

Email Telephone Number

Product Name Product ID Unit Price Quantity

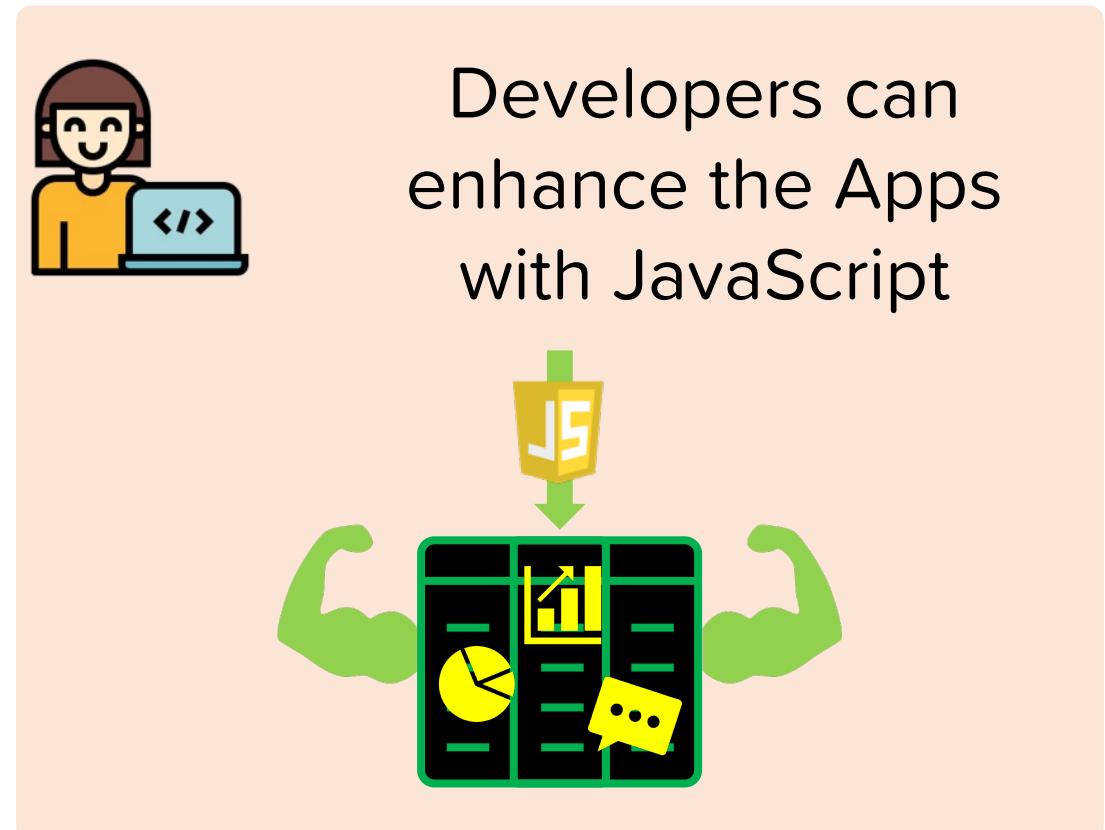
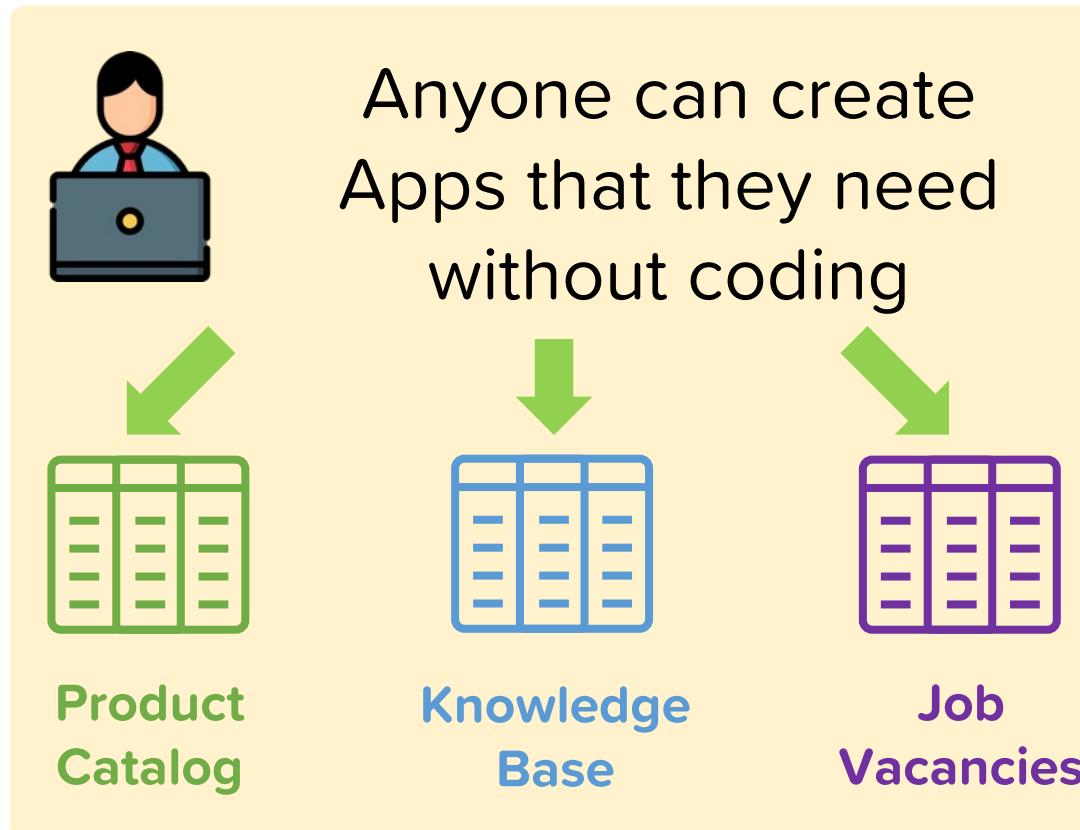
The screenshot shows the Kintone app builder interface for a 'Sales & Leads' application. The top navigation bar includes 'Sales & Leads > Settings' and a timestamp 'Last Updated: Mary Simpson 12:10 AM'. Below the title, there are tabs for 'Form', 'Views', 'Graphs', and 'App Settings', with 'App Settings' currently selected. A green button labeled 'Save Form' is visible. The main area displays a form titled 'Leads & Sales' with fields for 'Lead Title' and 'Sales Representative'. Under the 'Contact Info' section, there are fields for 'Company Name' and 'Website', with a 'Lookup' and 'Clear' button. Below that, there are fields for 'Contact Name' and 'Job Title'. At the bottom, there are fields for 'Email' and 'Telephone Number'. A footer row contains columns for '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!

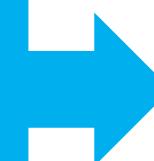
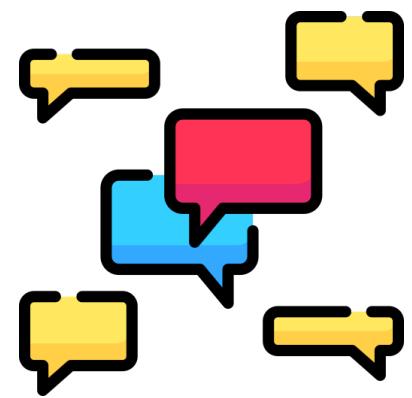
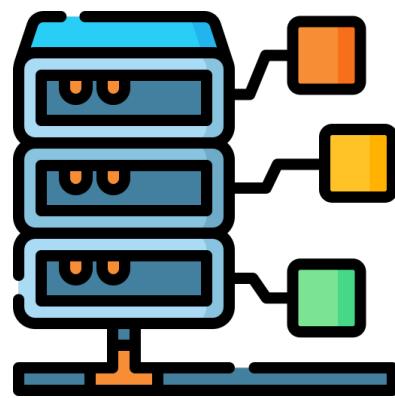
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



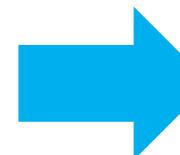
Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

Data + Communication



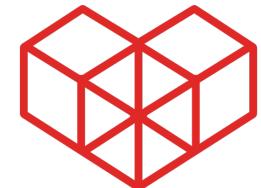
Insight



Action



How Developers Contribute

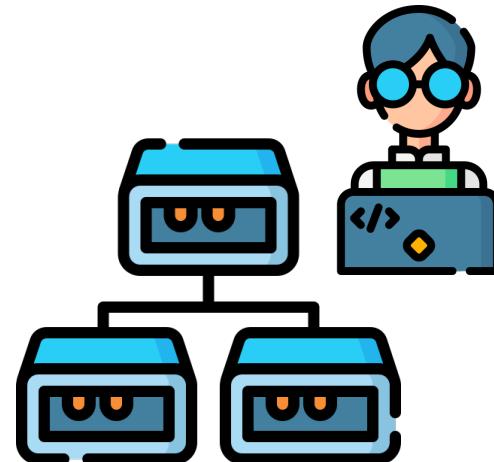


kintone
developer program

How Developers Contribute

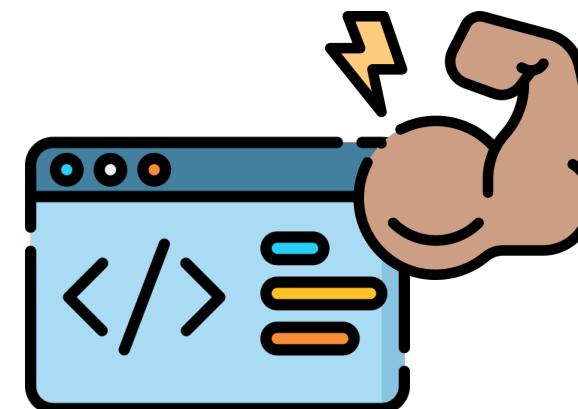
Command Center

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



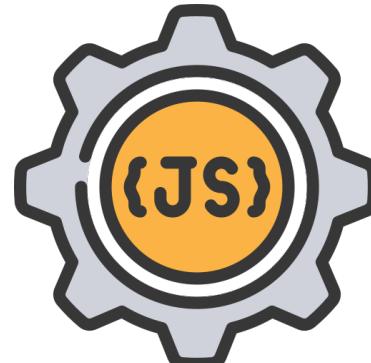
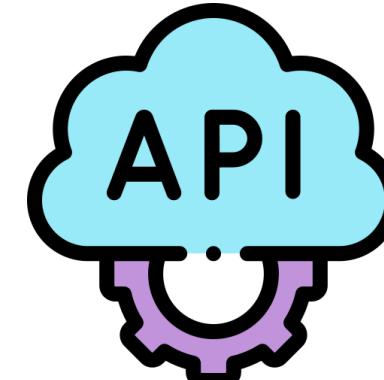
Enhancements

- Develop JavaScript customizations
- Build & share extensions



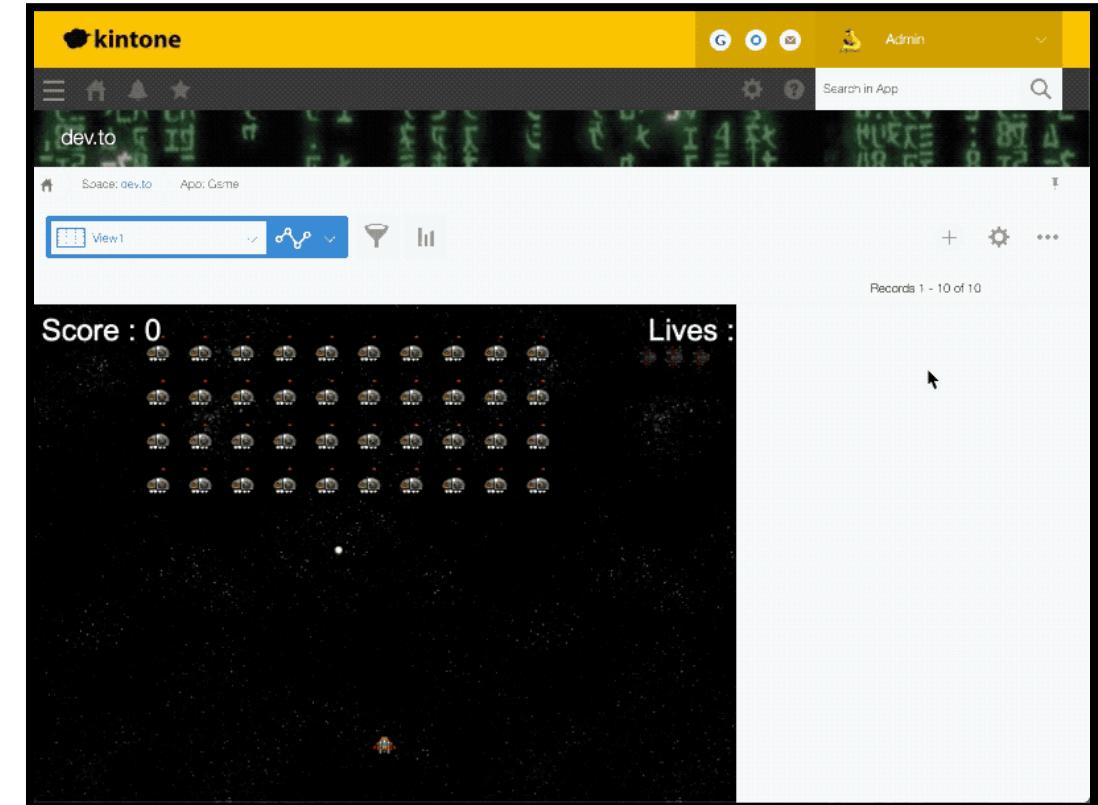
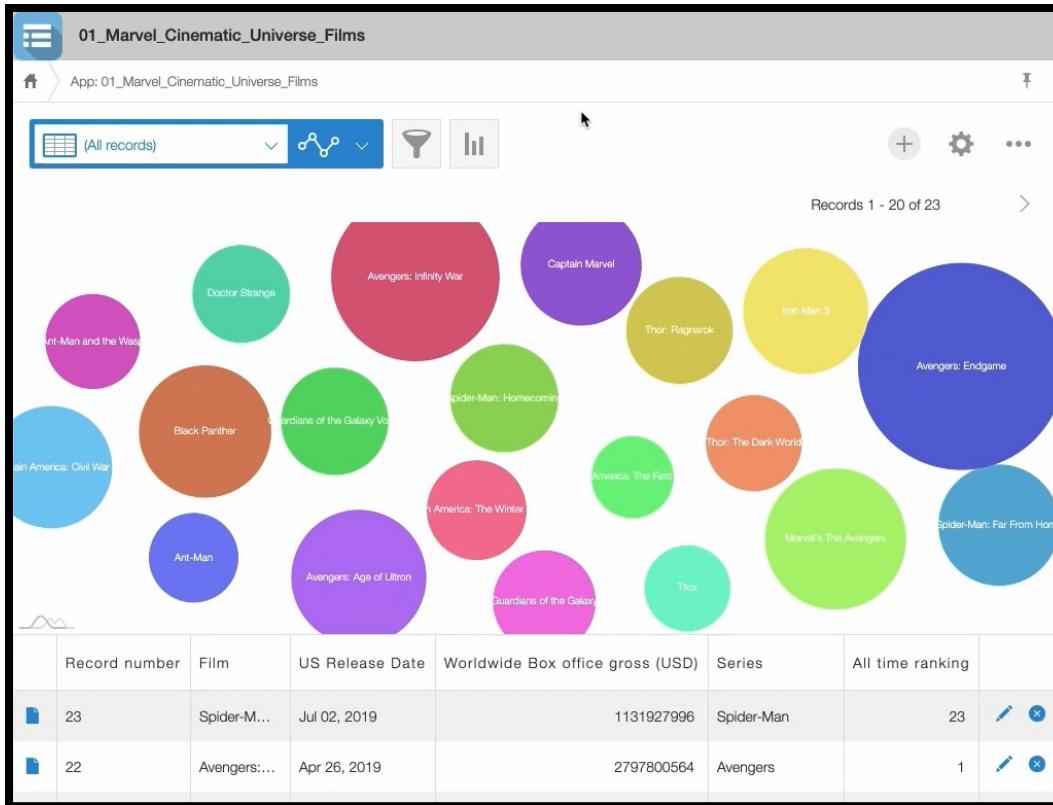
Tools Inside Kintone

- 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



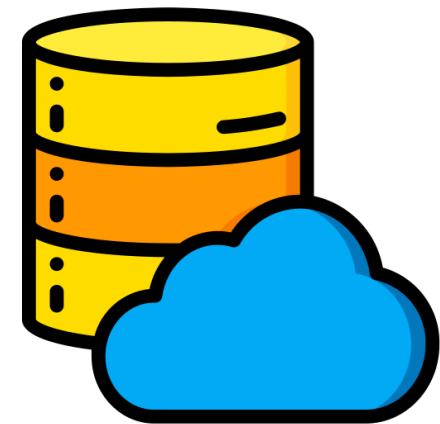
Consult with firms
on achieving
business goals



Develop Kintone
customizations for
customers

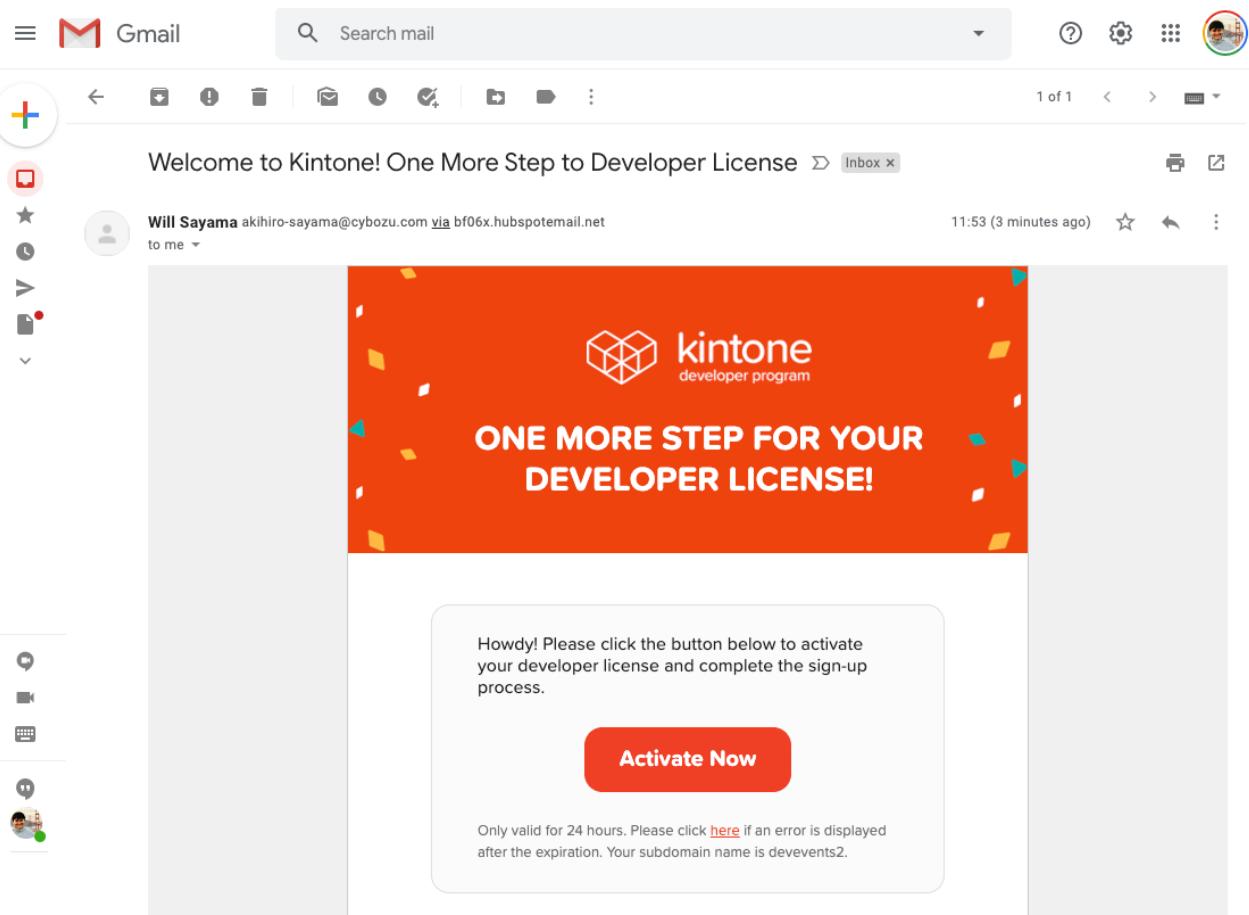
Let's Create a Kintone Database App

Step-By-Step Guide

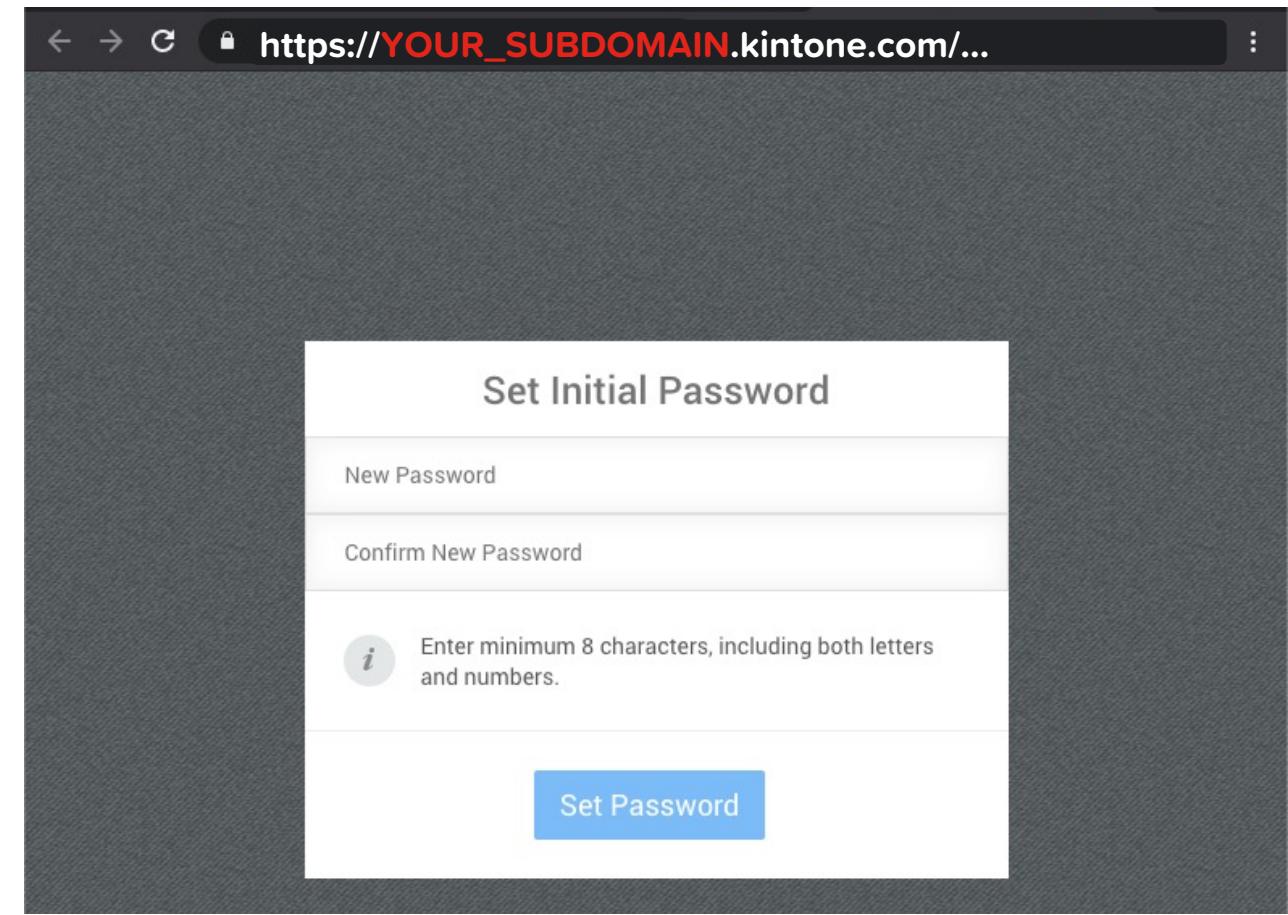


Check Your Email

Welcome to Kintone! One More Step To...



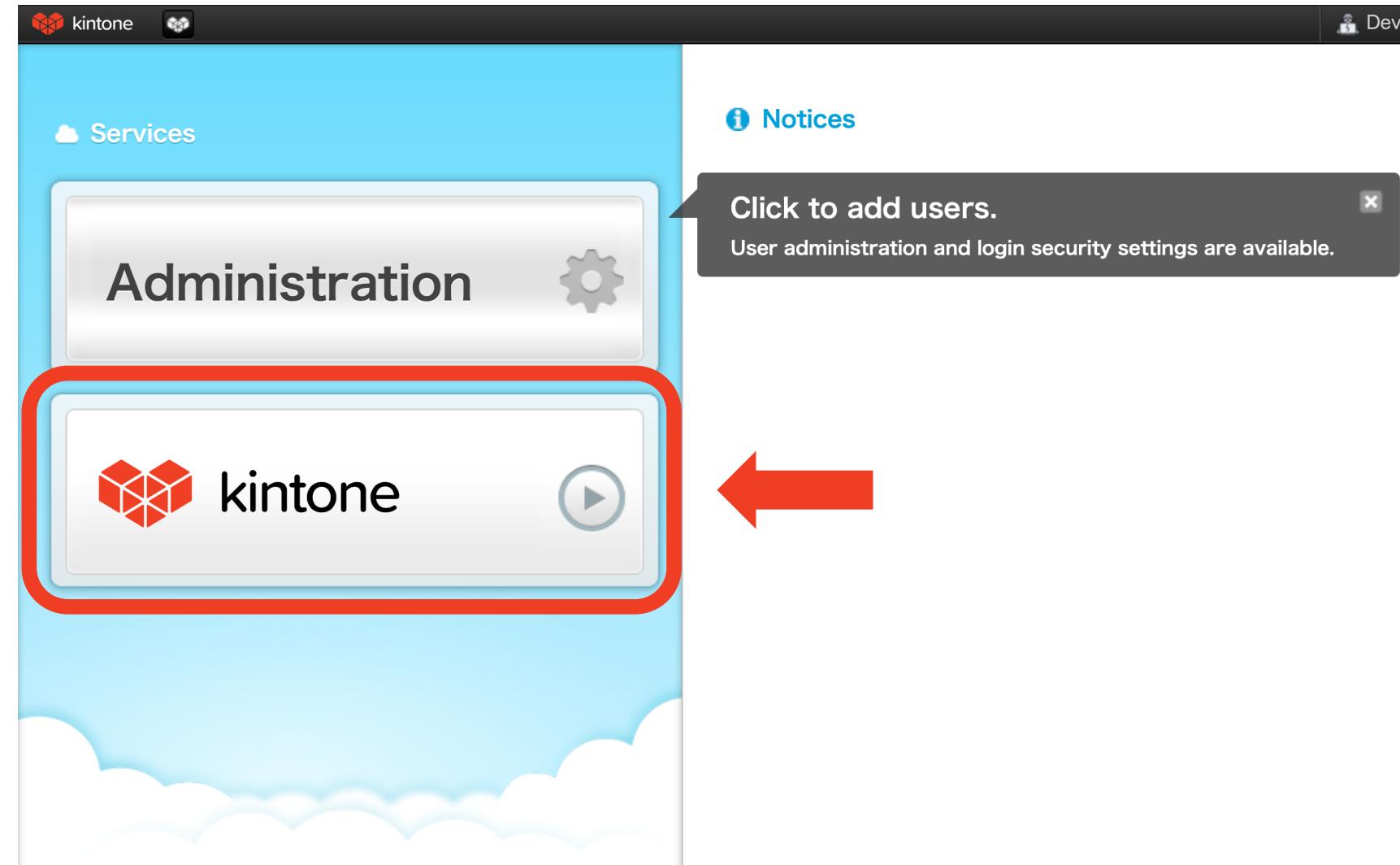
YOUR_SUBDOMAIN.kintone.com



Let's Log into Kintone

Click on Kintone button on the Left side

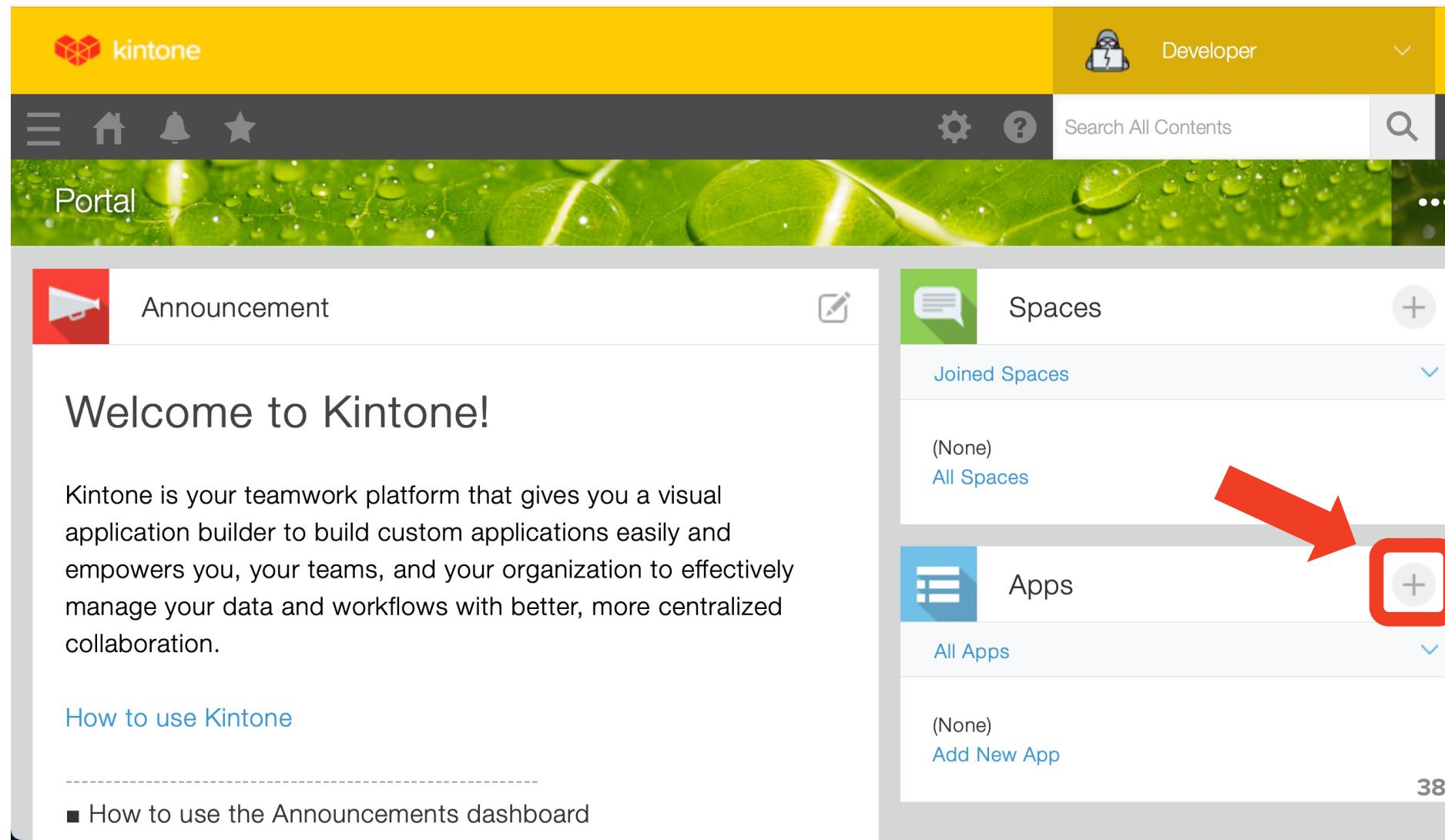
The email has the initial registration link & subdomain



Create a Kintone Database App

From the Portal screen

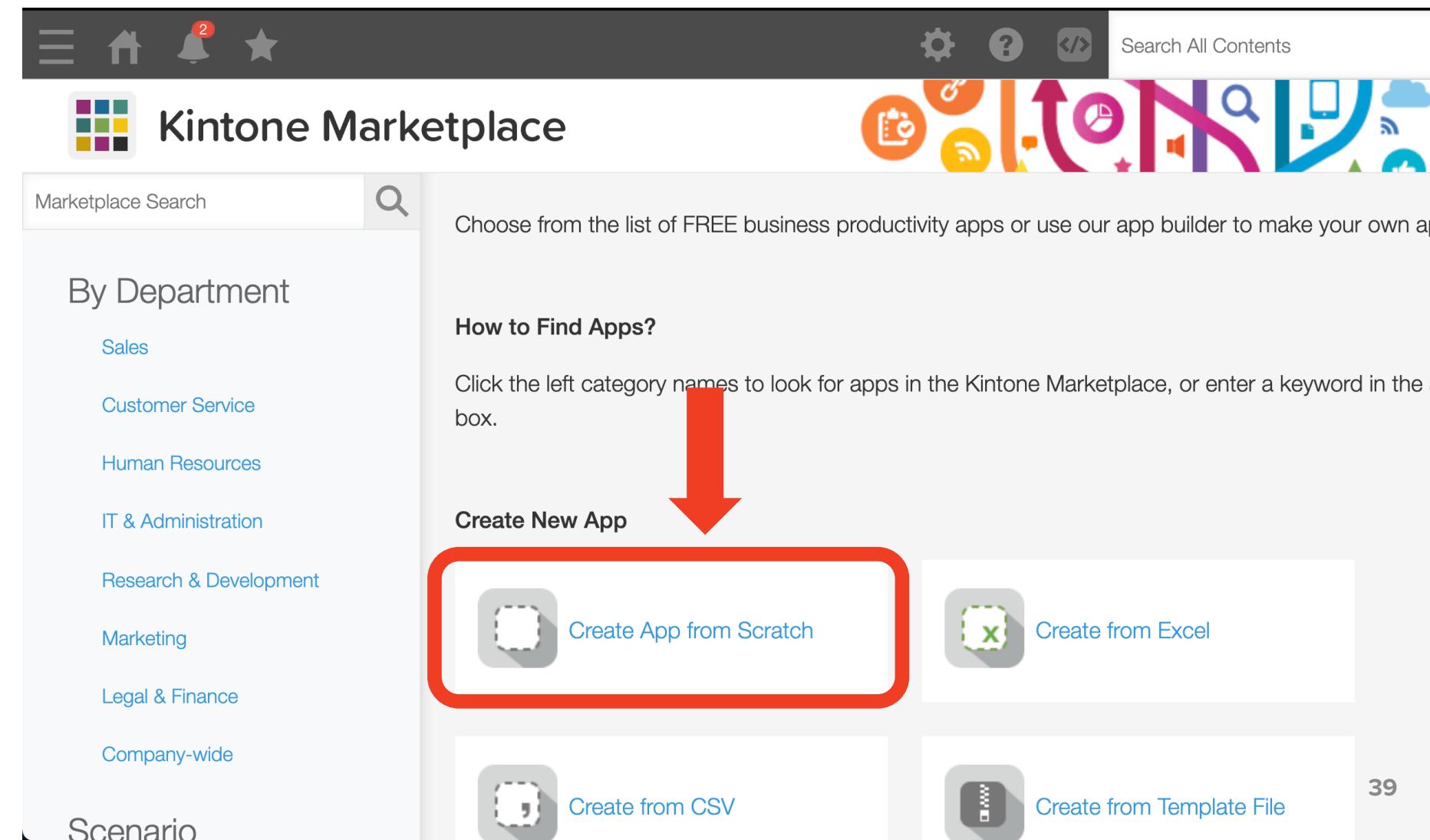
Click the
[+] button
on the
Right side



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"

The screenshot shows the kintone 'New App' creation interface. At the top, there is a yellow header bar with the kintone logo, a developer icon, and a search bar labeled 'Search All Contents'. Below the header is a dark navigation bar with icons for home, settings, and help. The main area shows the breadcrumb path: Kintone Marketplace > New App > Settings. A red arrow points to the 'New App' title field, which is currently set to 'New App'. Below the title is a note: 'Notes for app administrators: This app does not exist (Create)'. The interface has tabs for 'Form', 'Views' (which is selected), 'Graphs', and 'App Settings'. On the left, there is a 'Save Form' button and a list of field types: Label, Rich text, Number, Radio button, Multi-choice, Date, Date and time, Text, Text area, Calculated, Check box, Drop-down, Time, and Attachment. On the right, there is a large area with a grey arrow pointing down and the text 'Drag and drop fields here.'

Building the App

Drag & drop following fields into the middle area

The screenshot shows the 'Customer Onboarding' app settings page. At the top, there's a navigation bar with icons for home, notifications, and stars, followed by a search bar and a 'Search in App' button. Below the navigation is a header with the app name 'Customer Onboarding' and a note that 'Notes for app administrators does not exist (Create)'. To the right of the header are buttons for 'Discard Changes' and 'Update App'. The main area has tabs for 'Form', 'Views', 'Graphs', and 'App Settings', with 'Form' selected. On the left, there's a sidebar with 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, Field group, Text, Text area, Calculated, Check box, Drop-down, Time, Attachment, User, Group selection, Lookup, Border, and Table. A blue circle highlights the 'Number' and 'Radio button' fields. A large red curved arrow points from the highlighted fields towards the main workspace area. In the bottom right corner of the slide, there's a yellow box containing the text '1x Radio Button' and '1x Number'.

Customer Onboarding > Settings

Customer Onboarding

Notes for app administrators does not exist (Create)

Last Updated: sean Aug 24 6:44 PM

Discard Changes Update App

Form Views Graphs App Settings

Save Form

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

Group selection

Lookup

Border

Table

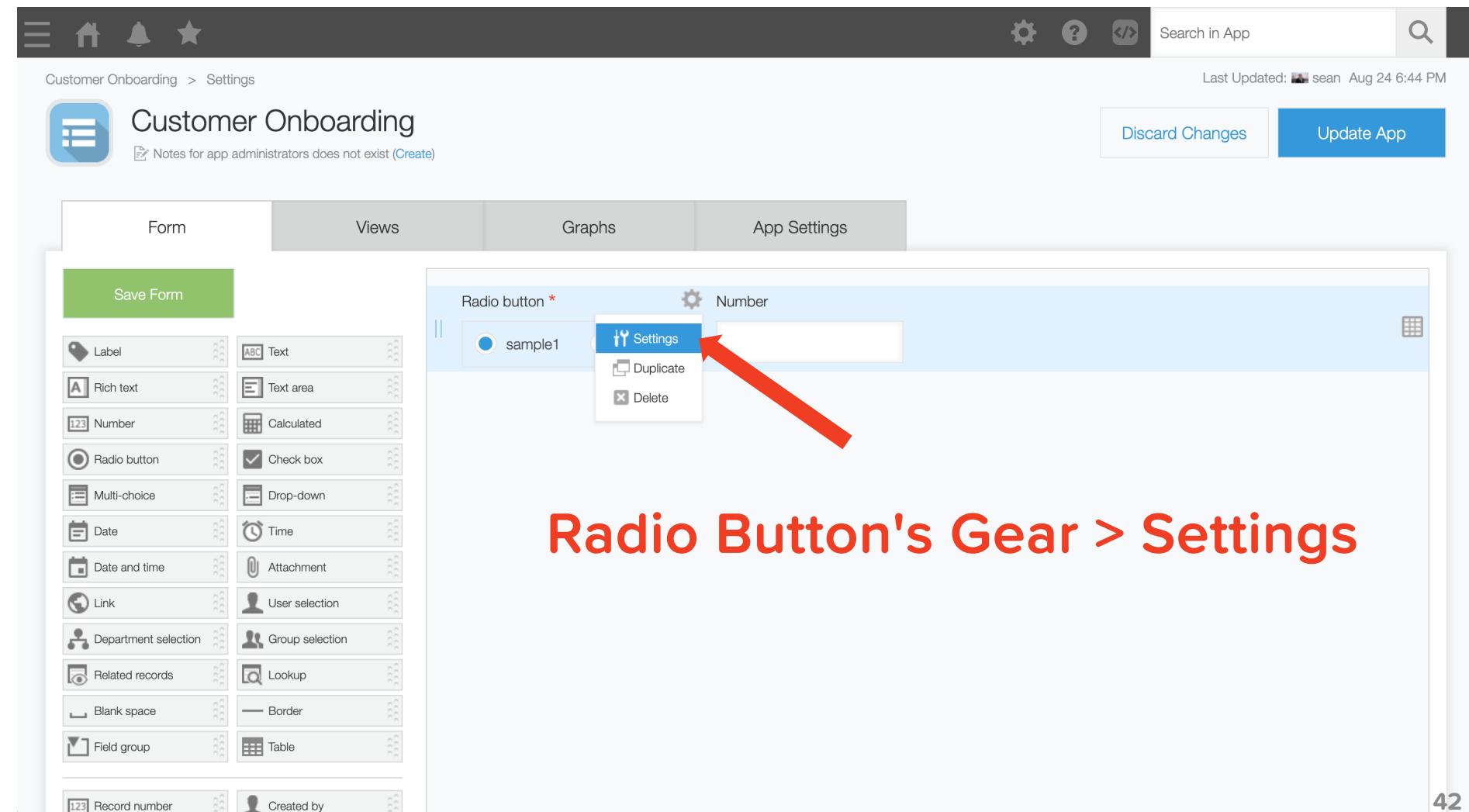
1x Radio Button

1x Number

Configure Fields

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

Edit the Name & Field Code

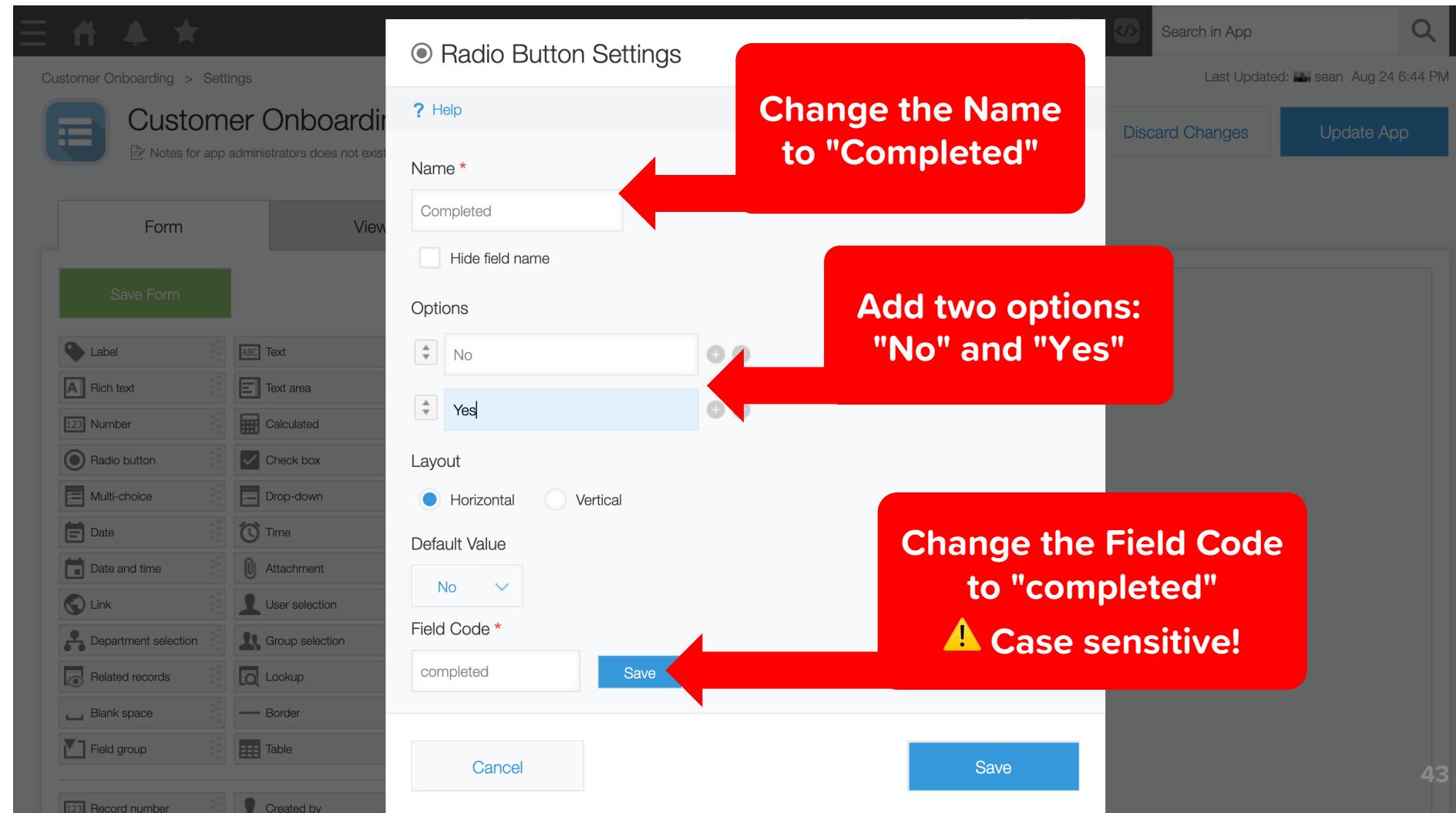


Radio Button's Gear > Settings

Inside the Radio Button Settings

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

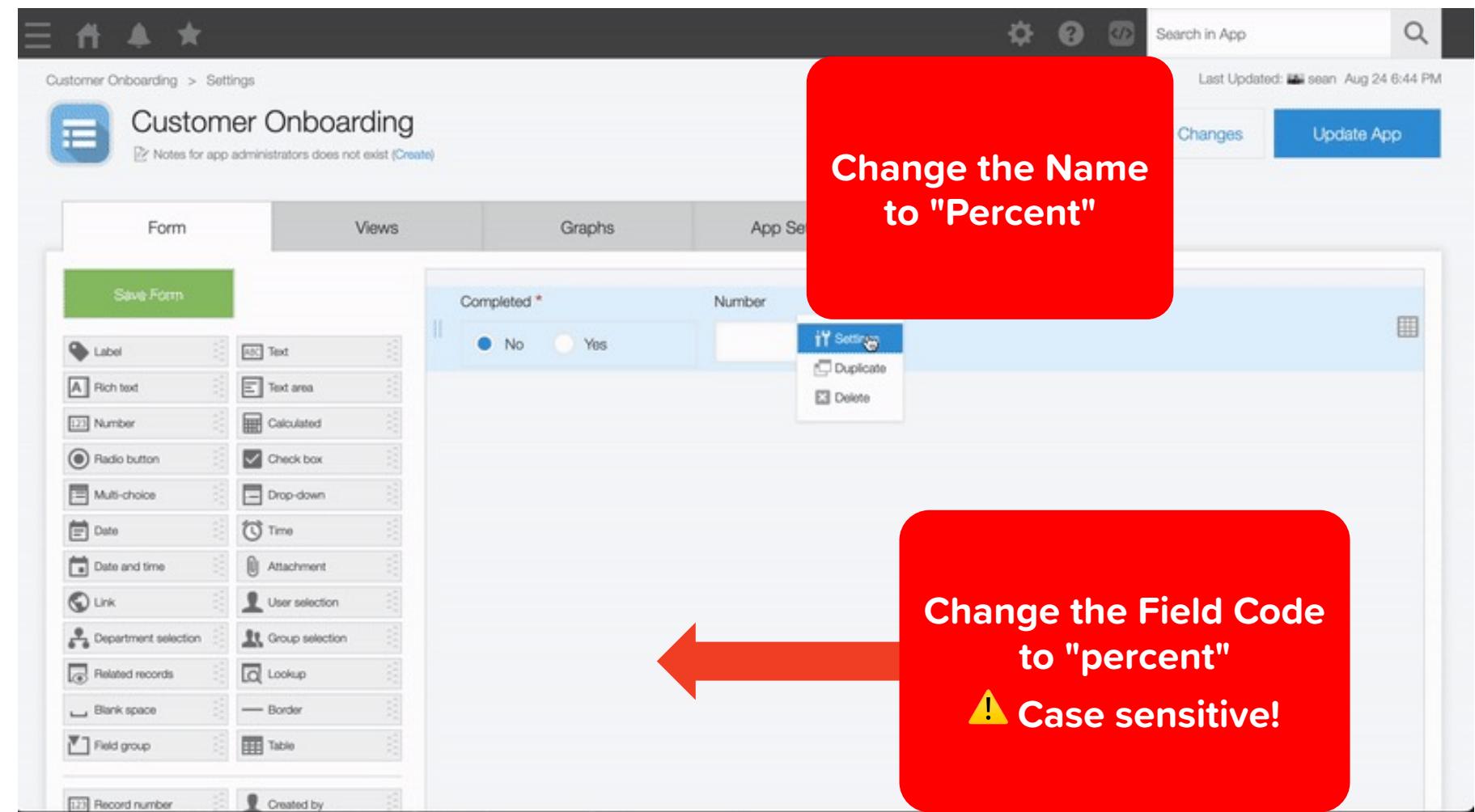
Edit the Name & Field Code & Options



Inside the Number Field Settings

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

Edit the Name & Field Code



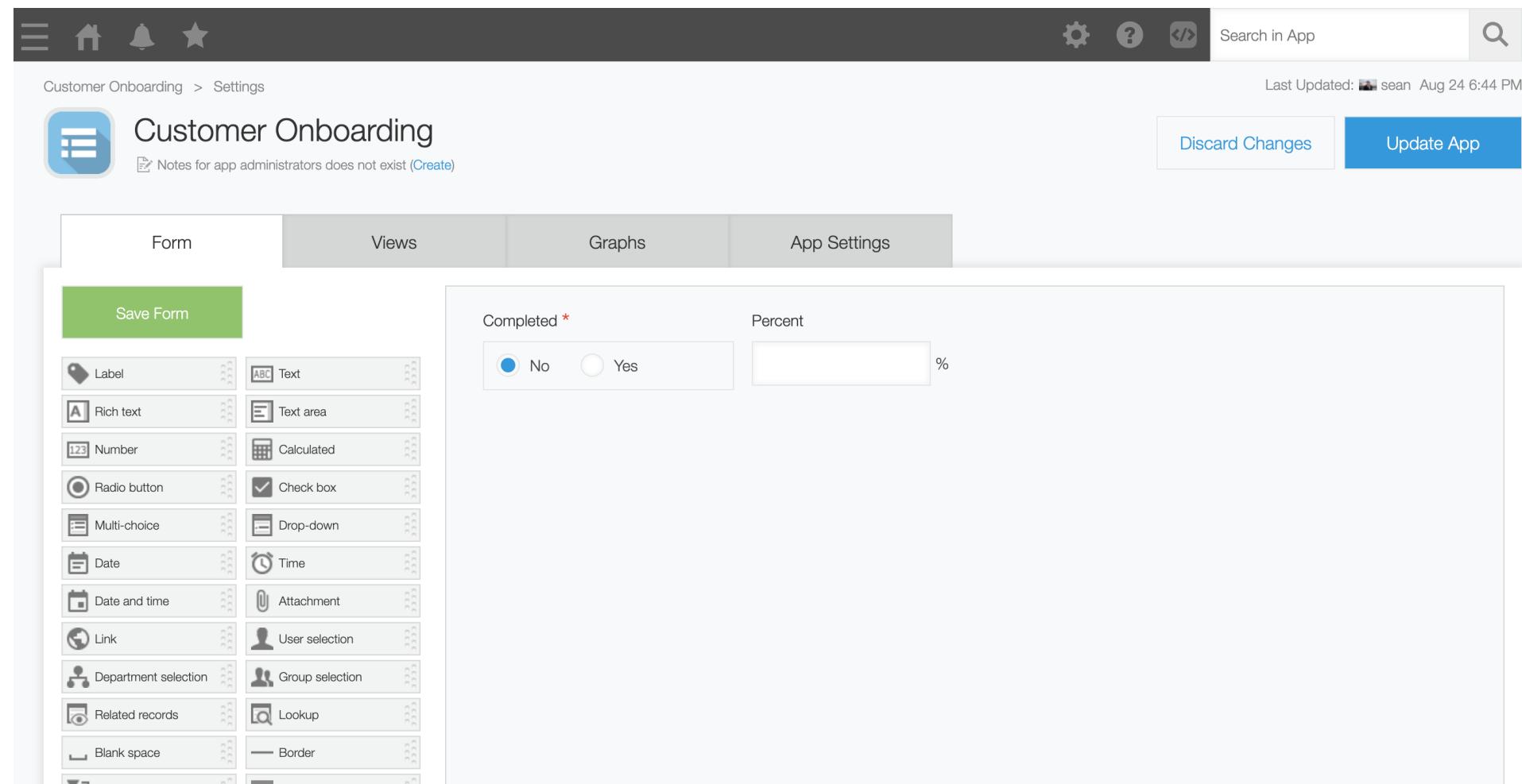
Does Your App Look Like This?

We changed...

- Title
- 1x Radio Button
- 1x Number

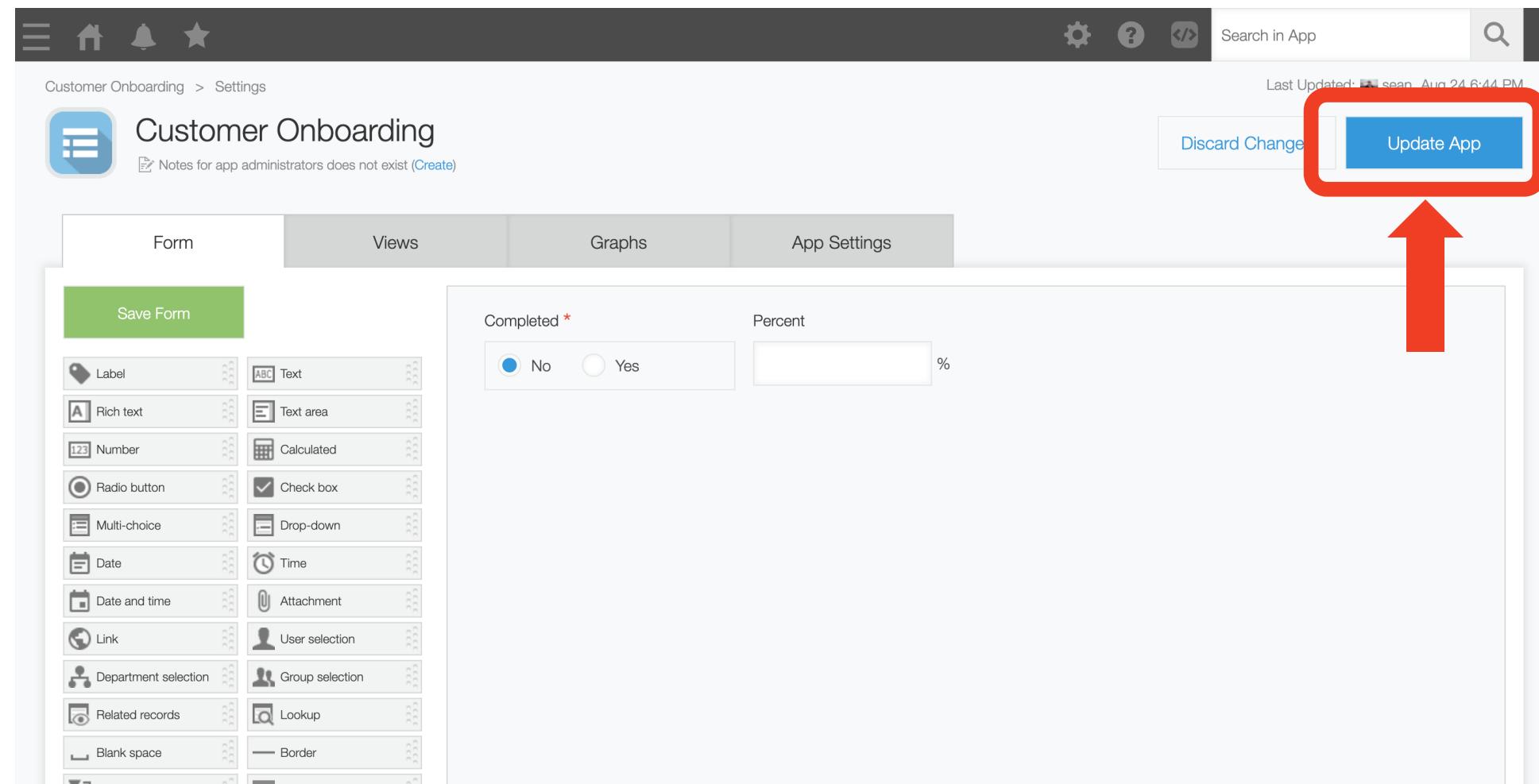
Set the fields'

- Names
- Field Codes



Activate the Kintone Database App

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

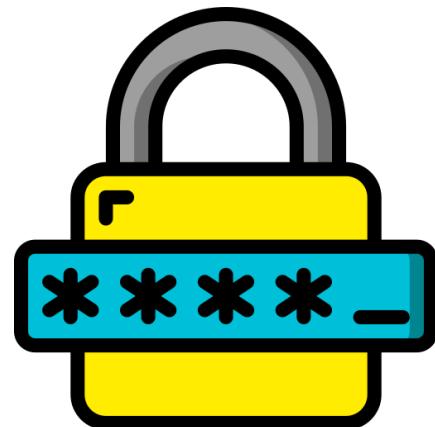


Connect Kintone to the Project

1. Kintone Subdomain

2. App ID

3. API Token



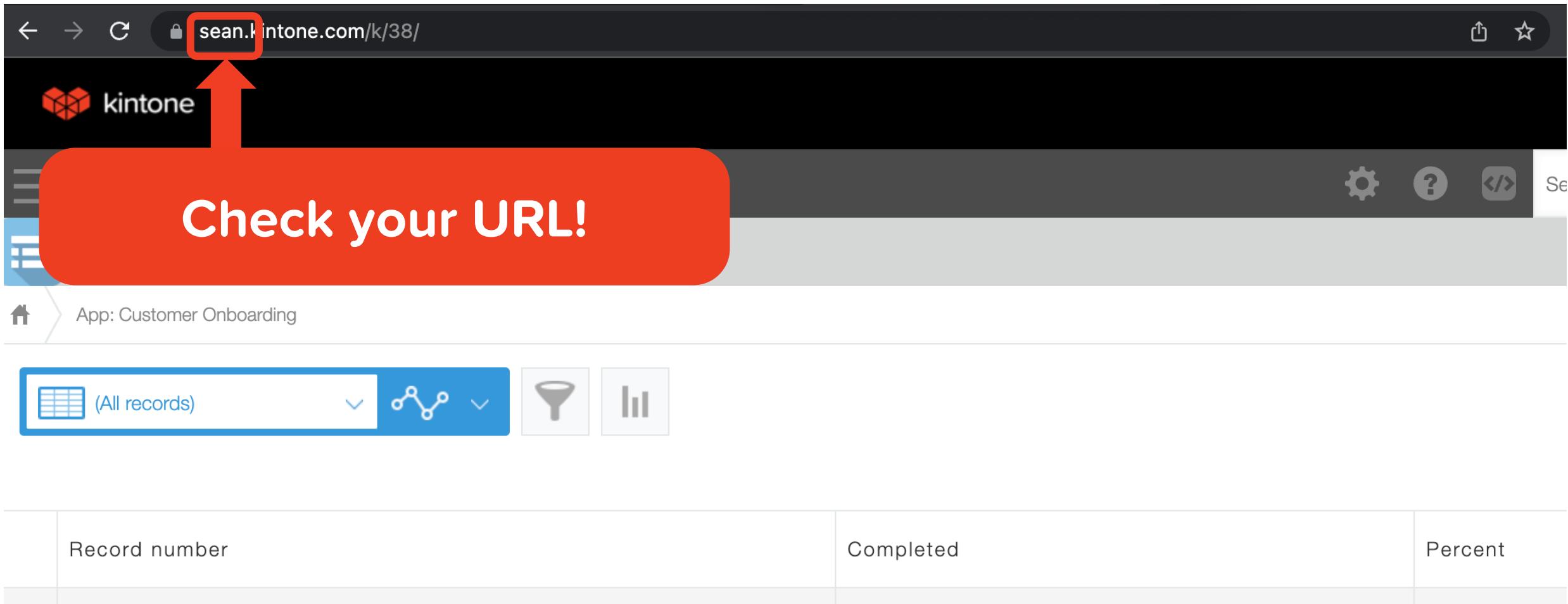
Go inside the `.env.example` file

- `.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?



Check your URL!

sean.kintone.com/k/38/

kintone

App: Customer Onboarding

All records

Record number	Completed	Percent

Where to get my App ID?

A screenshot of a web browser displaying a Kintone application. The URL bar shows the address `sean.kintone.com/l/38/`. An orange callout bubble with the text "Check your URL! (Again!)" points upwards towards the URL bar. The Kintone logo is visible in the top left corner of the page. The main content area shows a table with columns for "Record number", "Completed", and "Percent". At the bottom of the table, there is a blue button with the text "(All records)".

Record number	Completed	Percent

Where to get my API Token?

A screenshot of a web browser displaying a Kintone application. The URL in the address bar is `sean.kintone.com/k/38/`. The page title is "Customer Onboarding". The top navigation bar includes icons for a menu, home, notifications, and favorites. A gear icon, representing settings, is highlighted with a red square and has an orange arrow pointing to it from a large orange callout bubble containing the text "Click Settings...". Below the navigation bar, there's a breadcrumb trail: "App: Customer Onboarding". The main content area features a search bar with filters for "(All records)" and "Completed" status. A table header is visible with columns for "Record number", "Completed", and "Percent".



sean



Search in App

▼

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

App Settings...

API Token

API Token...

Webhooks

Permissions

Actions

Management



sean



Search in App



Customer Onboarding > Settings > API Token

Save

Cancel

API Token ? Help

Manage the authentication
You can create an API token
Example: curl -H "X-Cybozu-Auth-Token: " https://api.kintone.jp/v1/execute/REST API.

Generate

Click Generate and...

API Token

pKwnYpZ4qnG1UNS6buNMXm6btJ3nubwJfnKcFDzz

Permissions

- View records Add records Edit records Delete records
Manage app

Notes



Customization samples

[Kintone Customization Gallery](#)

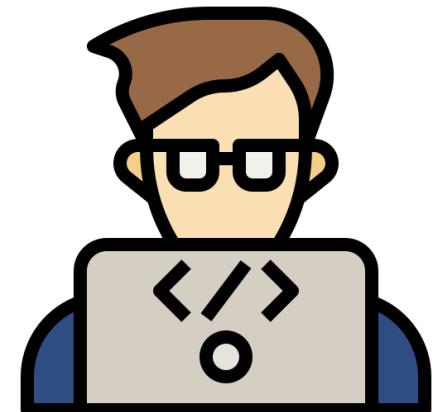
Community support

[Kintone Developer Program](#)

Make sure to give yourself permissions!

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



Finally

Where Can I Get Help?

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

Kintone Developer Forum

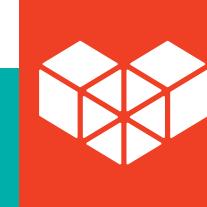
forum.kintone.com

The screenshot shows the Kintone Developer Forum homepage. At the top, there's a navigation bar with the Kintone logo, "Developer Site", "Sign Up", "Log In", and search/filter options ("all categories", "all tags", "Categories", "Latest", "Top"). Below the navigation, there are four main forum categories listed:

- Announcements**: Events, workshops, & Kintone news will be posted here! (5 topics)
- General**: Need help using Kintone APIs or debugging? Ask your fellow developers here! (422 topics)
- Site Feedback**: Post your ideas to improve the Kintone Developer Program here! (0 topics)
- Job Listing**: Kintone customization-related job opportunities will be posted here! (1 topic)

On the right side, there are several posts listed with their titles, posters, and creation dates:

- Post by "Onboard Users Like a Wizard with Shepherd.JS – React Basics Tutorial Workshop" (Announcements) on Jul 22, 1 topic.
- Post by "Welcome to Discourse" (General) on Apr 15, 0 topics.
- Post by "Scanning" for fields in an App? (General) on 4d ago, 2 topics.
- Post by "Seeking Independent Contractors with Kintone" (General) on 2d ago, 0 topics.



Any
Questions?

kintone.dev

Thank You!



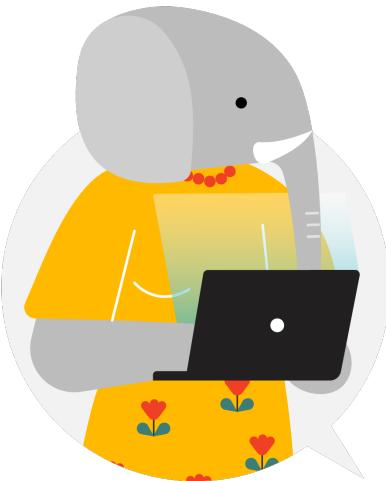
Join Our Future Workshops!

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

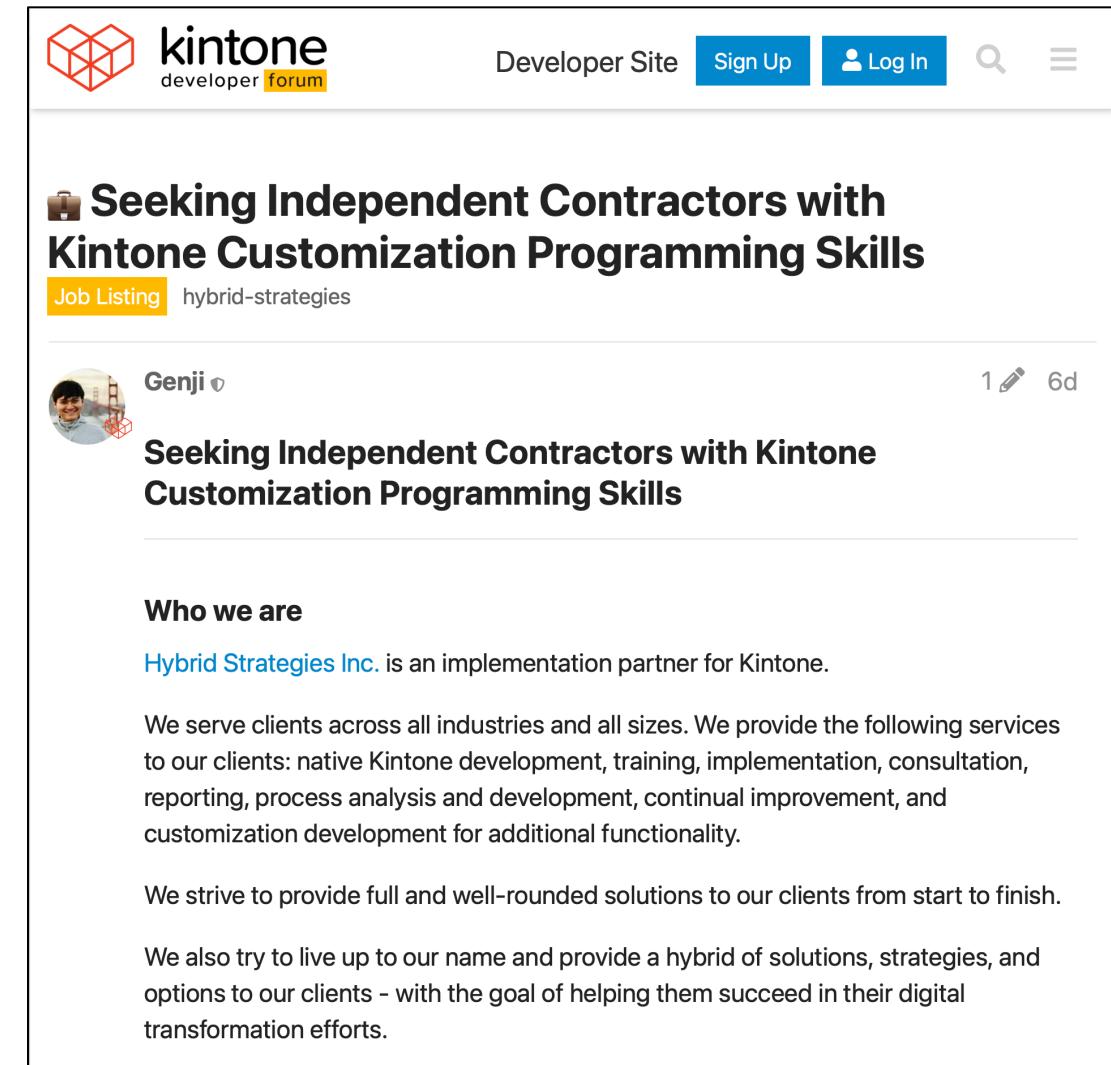
Want a Job?

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 job listing on the kintone developer forum. The header includes the kintone logo, developer forum text, and navigation links for Sign Up, Log In, search, and more. The main post has a title: "Seeking Independent Contractors with Kintone Customization Programming Skills" and a "Job Listing" tag. It was posted by a user named Genji, who has a profile picture featuring the Golden Gate Bridge. The post was made 6 days ago. Below the post, there's a section titled "Who we are" which describes Hybrid Strategies Inc. as an implementation partner for Kintone, serving clients across all industries and sizes with native Kintone development, training, implementation, consultation, reporting, process analysis and development, continual improvement, and customization development for additional functionality. The text also mentions providing full and well-rounded solutions from start to finish and living up to their name by providing hybrid solutions, strategies, and options to clients.

Developer Site [Sign Up](#) [Log In](#) [Search](#) [More](#)

Seeking Independent Contractors with Kintone Customization Programming Skills

Job Listing [hybrid-strategies](#)

Genji 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/kdp22aug