



Welcome to the

React x Web Database Workshop!

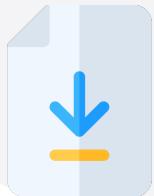


Recording will
be shared

Download
Code & Slide

bit.ly/KDP.REACT_2

Click the top right
Download ZIP
button



Sign Up For:

#1 Developer Account
bit.ly/KDP_signup

#2 Kintone Subdomain
bit.ly/K.DevLic



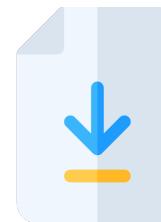
Asking Questions
& Raising Hands

Post questions in
the chat anytime!

Include your code
& error messages.



\$25 Gift Card
Raffle at the End



Instantly share code, notes, and snippets.



ahansel / 00_React_Workshop_v2.md

Last active 1 hour ago

<> Code

-o Revisions 23

Star

0

Fork

0



Download ZIP

00_React_Workshop_v2.md

Click here to download
EVERYTHING

Raw

React & REST API Workshop Part 2

Let's POST Data to a Web Database From a React Component

Thank you for attending our 2nd Kintone x React workshop!

Use the following files to follow along!

Download Links

Click [here](#) or the

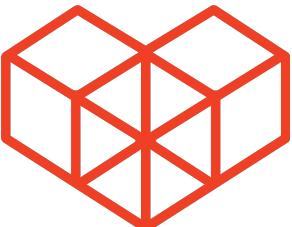
Download ZIP

button on the upper right corner for all the code & slides you need for our workshop!

Scroll down to
view the other files



#1 - Sign Up for Developer Account



bit.ly/KDP_signup

⚠ Do NOT use Safari ⚠

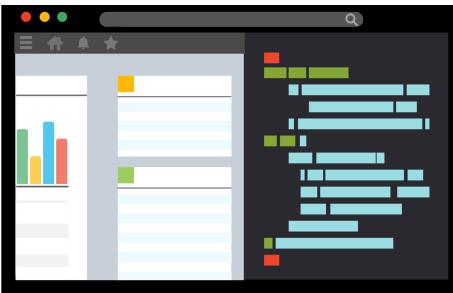
⚡ Accept Cookies First ⚡

✓ Chrome & Firefox works ✓

The screenshot shows a sign-up form for the Kintone Developer Program. At the top, there's a header with the Kintone logo and a search bar. Below the header, the main title is "Sign up to Kintone Developer Program". A sub-instruction says, "Please fill out this form, and we'll send you a welcome email so you can verify your email address and sign in." The form itself has two required fields: "Your full name *" and "Your email *". There's also a "reCAPTCHA" checkbox labeled "I'm not a robot". At the bottom of the form is a large blue "Sign up" button.



#2 - Create a Kintone Subdomain



bit.ly/K_DevLic

⚠ No Special Characters ⚠

⚡ Name your Subdomain with only ⚡
lowercase [a-z], numbers [0-9],
& hyphens [-]

✓ e.g. weekend-hacker, coffee4life ✓

Terms of Service for the Developer License

The account holder of this developer program who applies for the license (hereinafter referred to as "User") must comply with all of the provisions and the following conditions set out by Kintone Corporation (hereinafter referred to as "Kintone"), who will provide a Kintone developer license to the User.

[Kintone Developer License Terms of Service](#)

Developer License Application Form

First Name*

Last Name*

Email*

Company Name*

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

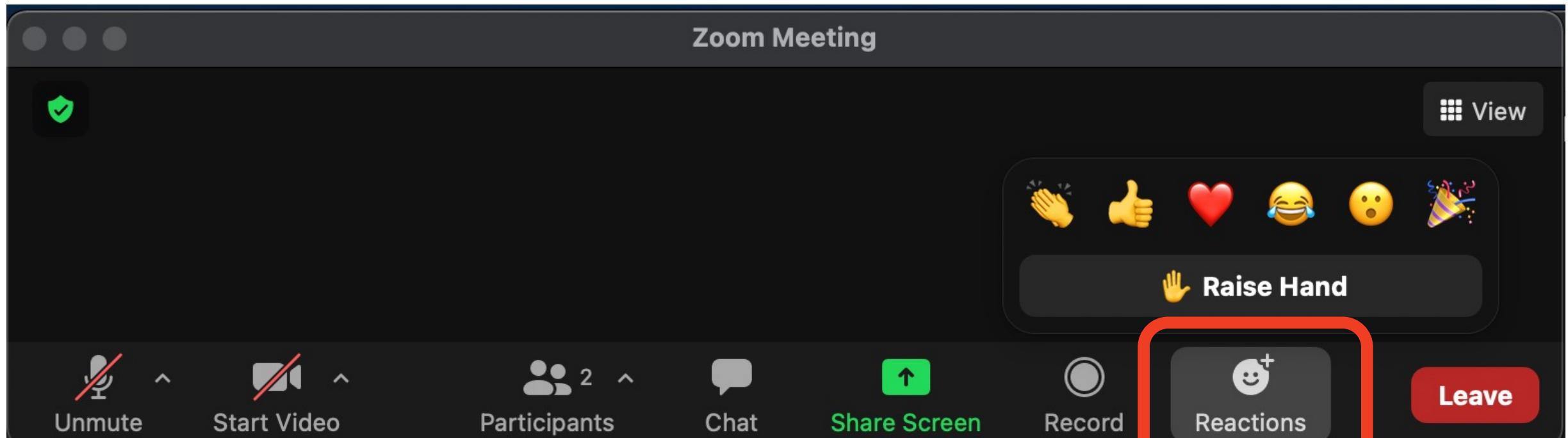
I agree with the [Kintone Developer License Terms of Service*](#)

protected by reCAPTCHA Privacy - Terms

[Sign Up](#)



Let's Practice using Zoom's Reactions



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



Hello From Kintone

Nim

Technical Evangelist



Will

Developer Advocate



Genji

Developer Advocate

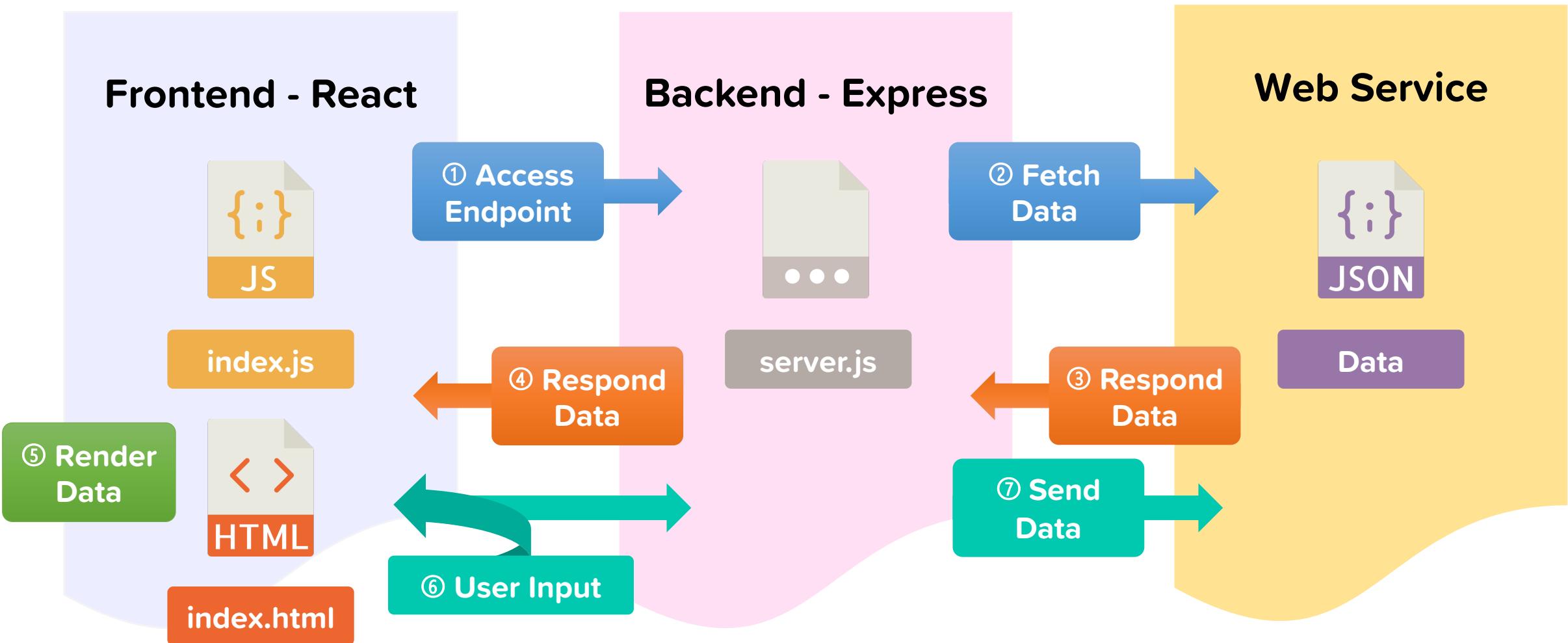


React & REST API GET & POST to a Web Database!





What We Will Make Today



What We Will Make Today

React App Manga DB - Goal - Records +

devevents.kintone.com/k/28/ Genji Guest :

kintone

Manga DB - Goal

App: Manga DB - Goal

List View

Records 1 - 8 of 8

	Title	Alternative Title	Author	Genre	
1	Undead Unluck	Undead Unluck	Yoshifumi Tozuka	Action	 
2	Golden Kamuy	Golden Kamuy	Satoru Noda	Action Comedy	 
3	Hachiwan Diver	81 diver	Yokusaru Shibata	Action Comedy Sports	 
4	Kimetsu no Yaiba	Demon Slayer	Koyoharu Gotouge	Action	 
5	Batuque	Batuque	Toshio Sako	Action	 
6	Usogui	The Lie Eater	Toshio Sako	Action Gambling	 
7	Gunnm	Battle Angel Alita	Yukito Kishiro	Action Cyberpunk	 
8	Ouran High School Host ...		Bisco Hatori		 

Records 1 - 8 of 8

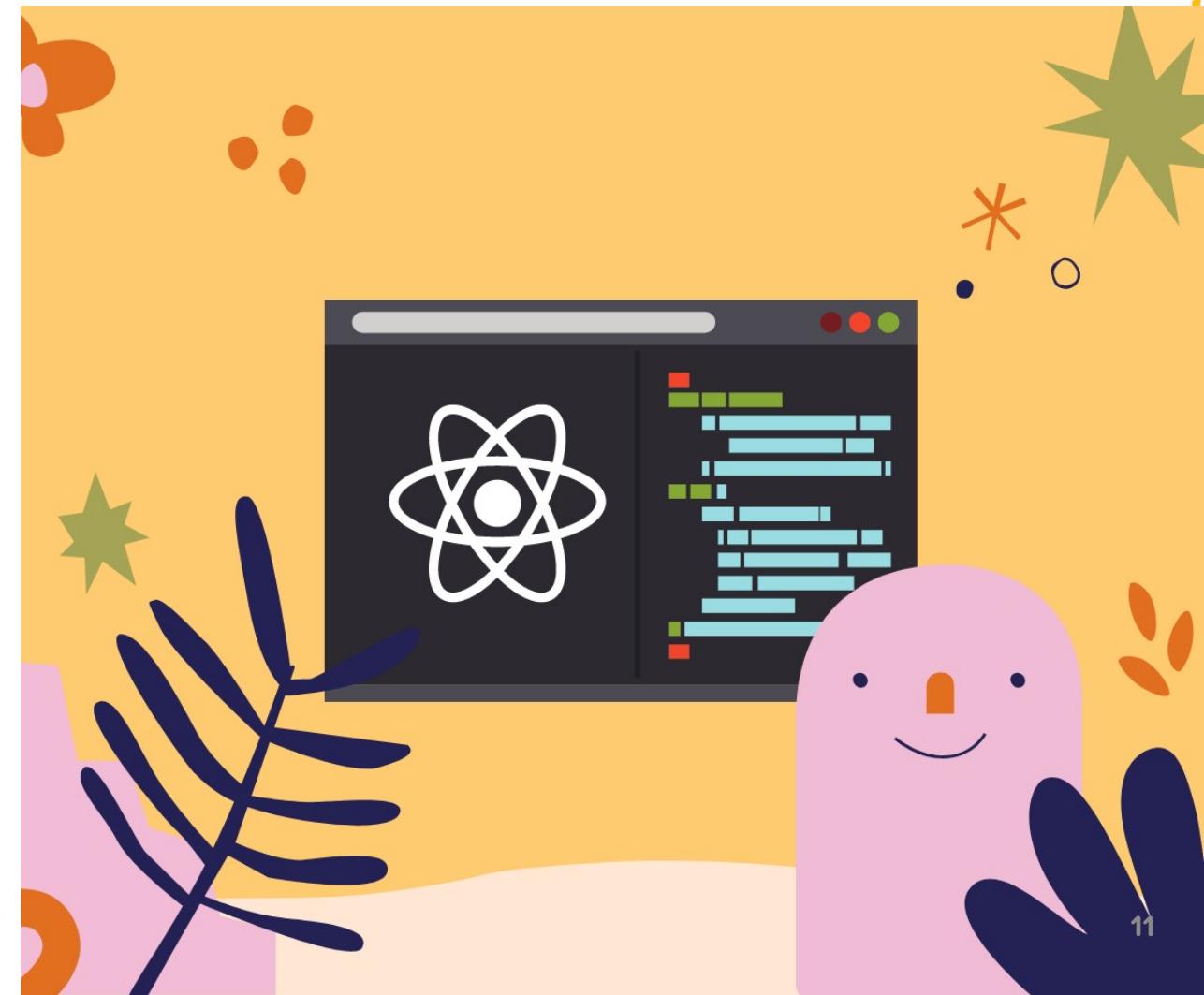
Today's Agenda

- 1 Starting a React Project
- 2 Render an API Response
- 3 Starting an Express Server
- 4 Calling a Web Database

React & REST API Article Series

1. How to render responses
2. How to overcome CORS errors
3. How to get data from a Web Database

bit.ly/react-rest-devto





Check Node.js & npm version

Check the versions

Check the versions in *myproject*

```
$ node -v  
$ npm -v
```

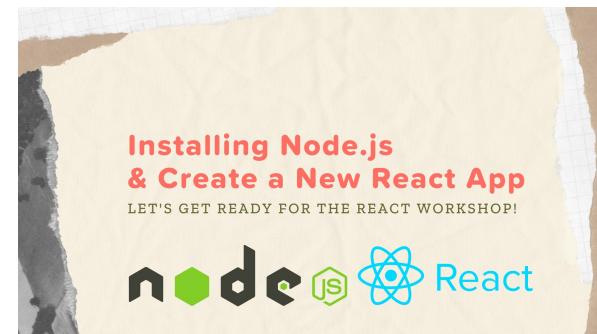
Required for React:

Node ≥ 10.16 & npm ≥ 5.6

If missing, install

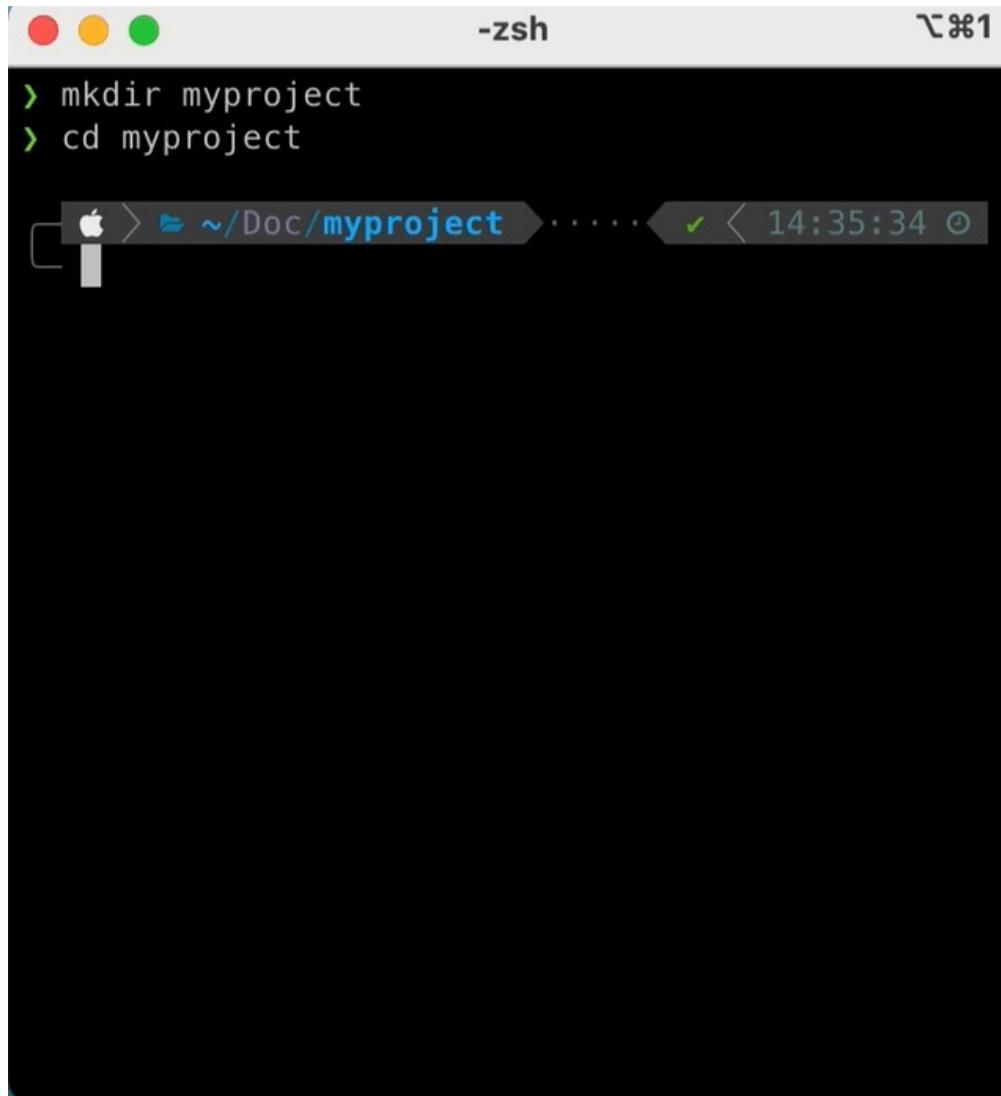
For those who are new to Node.js, check out [01_Prep.md](#)

There is a companion video:



youtu.be/4Kw-i_rX3tY

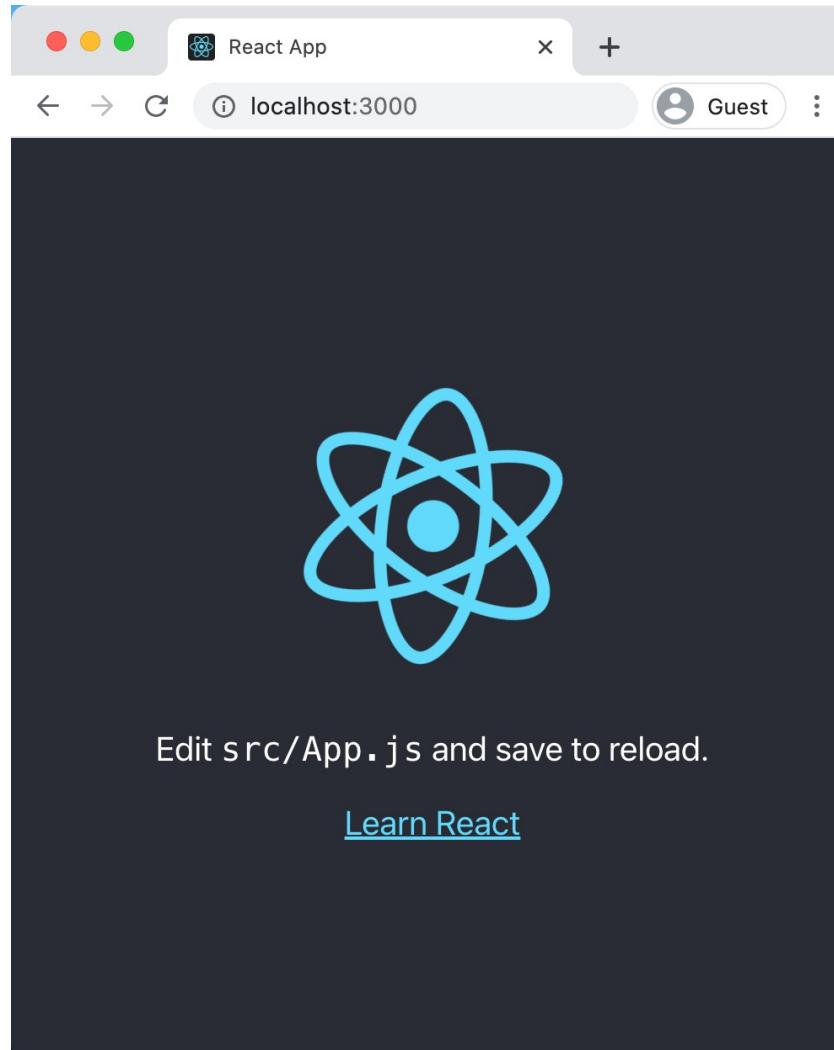
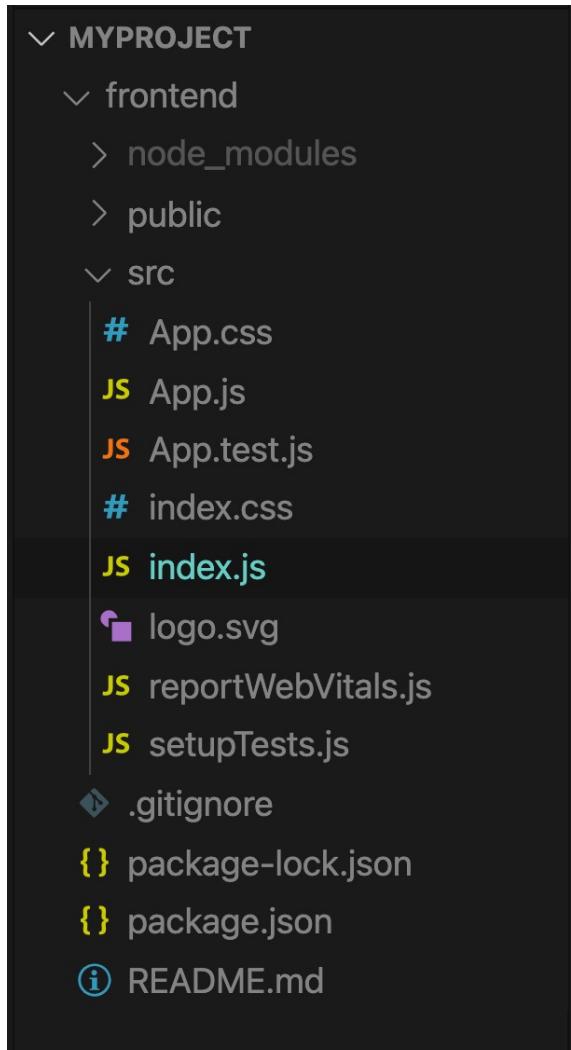
Open the Sample React App



```
mkdir myproject
cd myproject
```

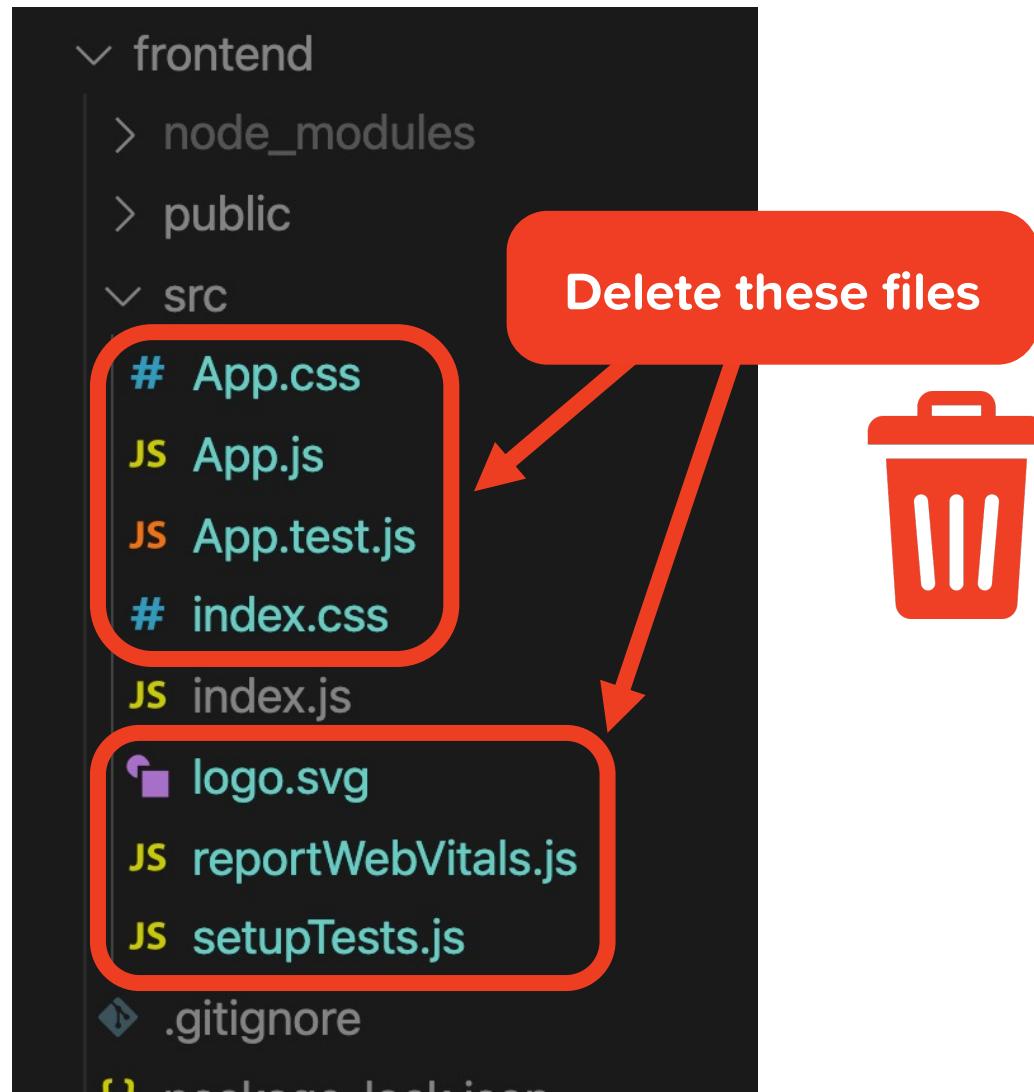
```
$ cd .../myproject
$ npx create-react-app frontend
...
$ cd frontend
$ code .
```

Inside frontend

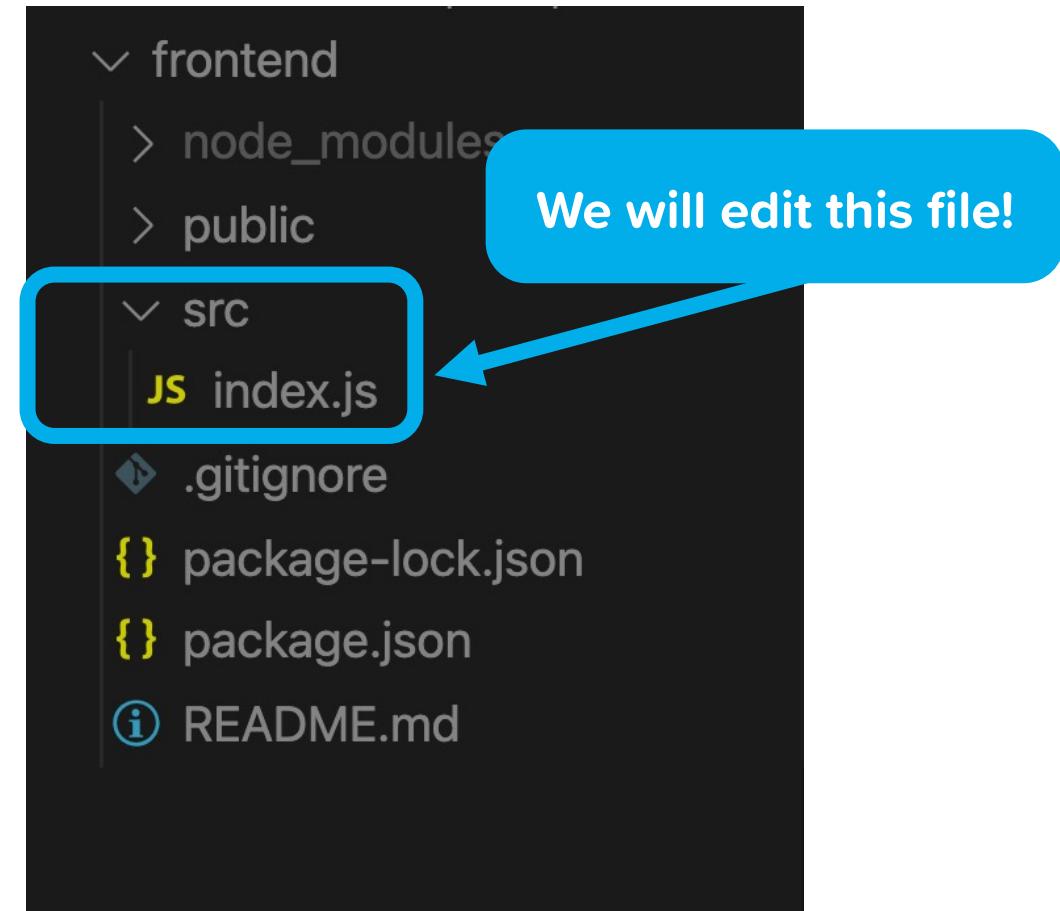


```
> .../myproject/frontend  
$ npm start
```

Cleaning Up frontend

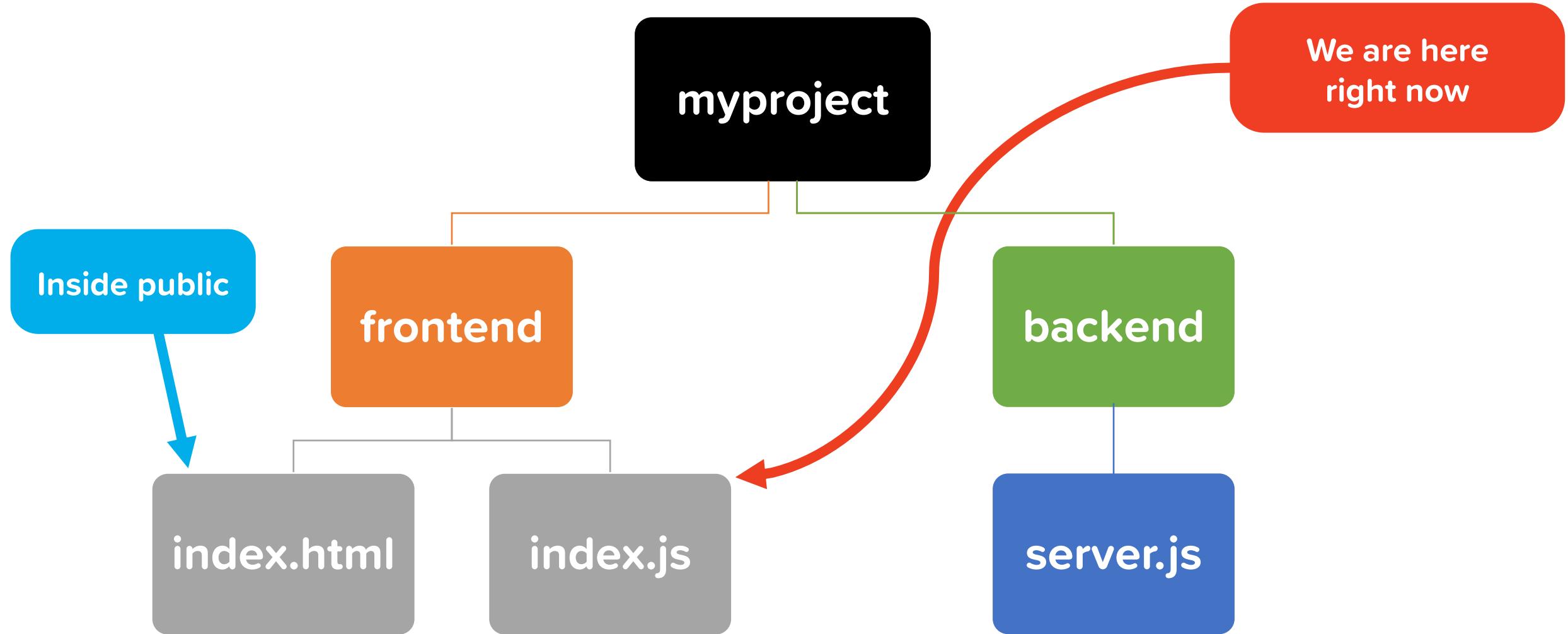


Delete these files

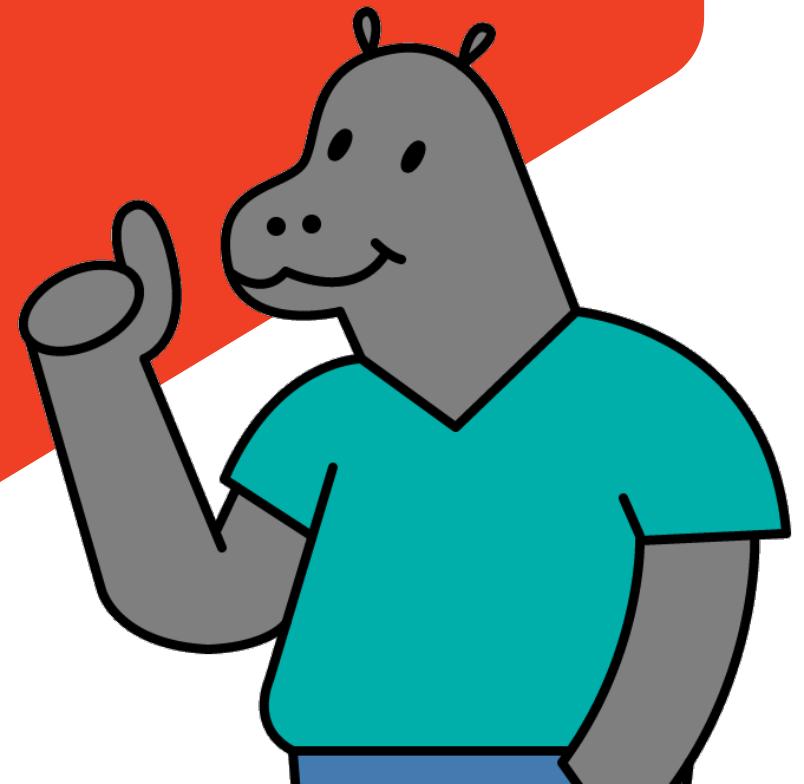


We will edit this file!

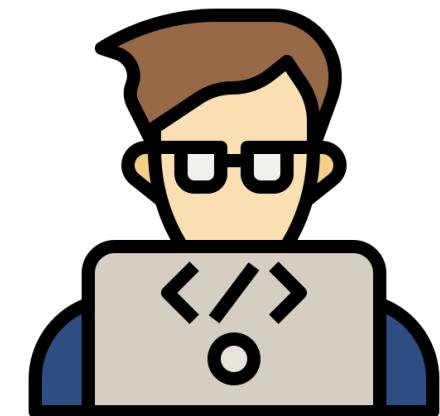
Goal: The Directory Structure



Quick check-in with Zoom polling

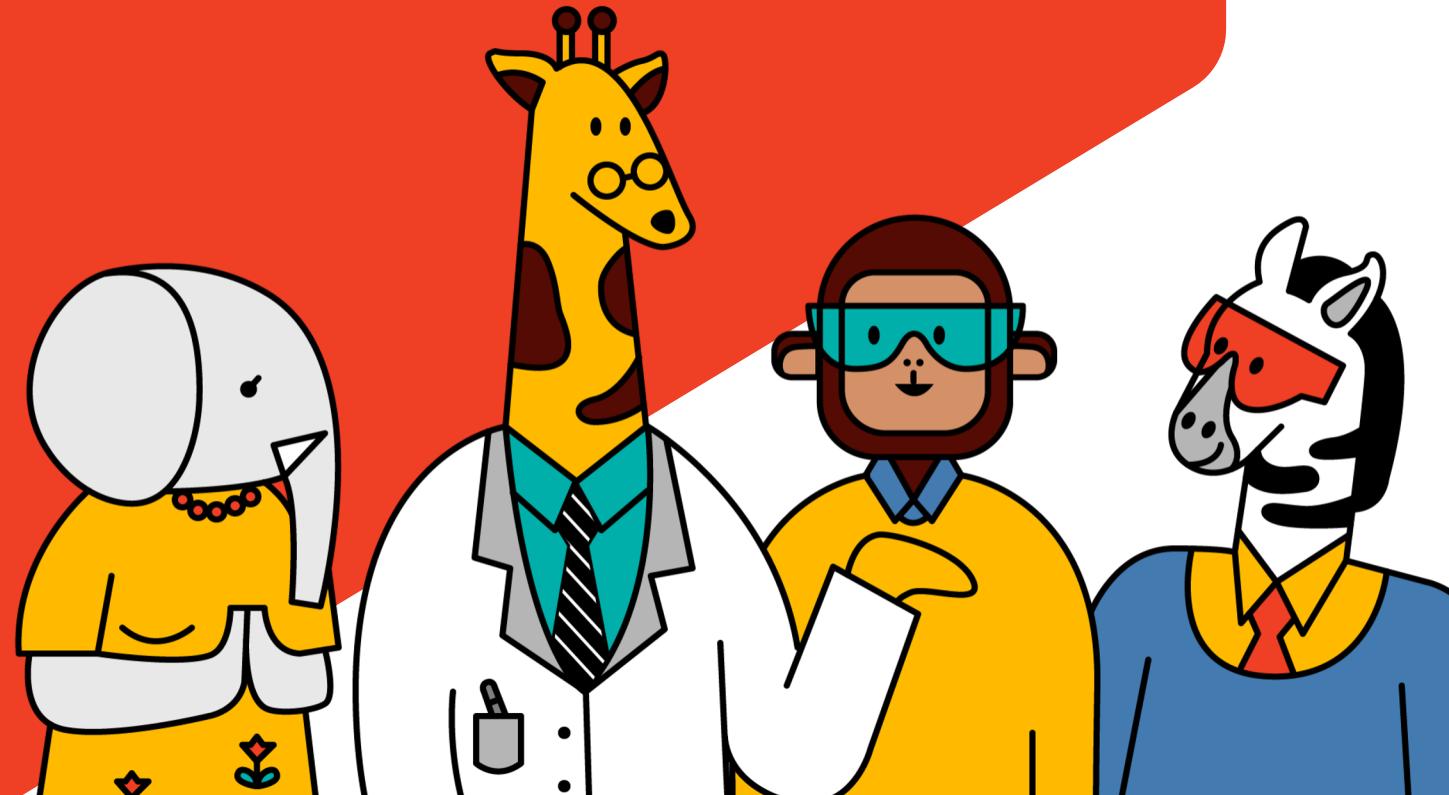


Live Coding Time!

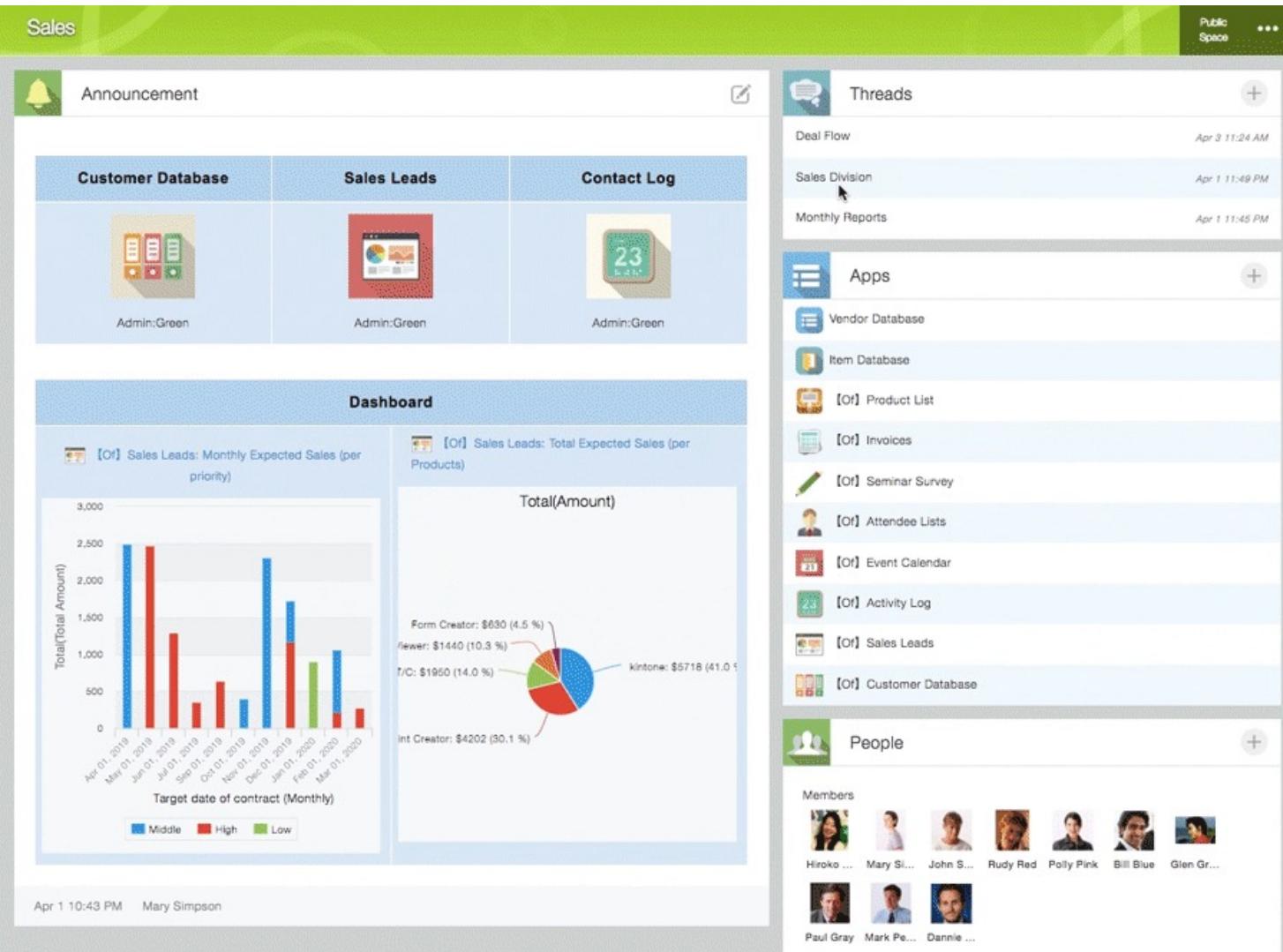


What is Kintone?

Built for teamwork,
designed by you



What is Kintone?



The screenshot displays the Kintone interface with several sections:

- Announcement:** A green header bar with the word "Sales".
- Customer Database:** Shows three cards: "Customer Database" (Admin:Green), "Sales Leads" (Admin:Green), and "Contact Log" (Admin:Green).
- Dashboard:** Two charts: a bar chart for "Sales Leads: Monthly Expected Sales (per priority)" and a pie chart for "Sales Leads: Total Expected Sales (per Products)".
- Threads:** A list of threads: "Deal Flow" (Apr 3 11:24 AM), "Sales Division" (Apr 1 11:49 PM), and "Monthly Reports" (Apr 1 11:45 PM).
- Apps:** A list of applications: "Vendor Database", "Item Database", "[Of] Product List", "[Of] Invoices", "[Of] Seminar Survey", "[Of] Attendee Lists", "[Of] Event Calendar", "[Of] Activity Log", "[Of] Sales Leads", and "[Of] Customer Database".
- People:** A list of members: Hiroko ..., Mary Si..., John S..., Rudy Red, Polly Pink, Bill Blue, Glen Gr..., Paul Gray, Mark Pe..., Dannie ...

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

Where Kintone is Special!



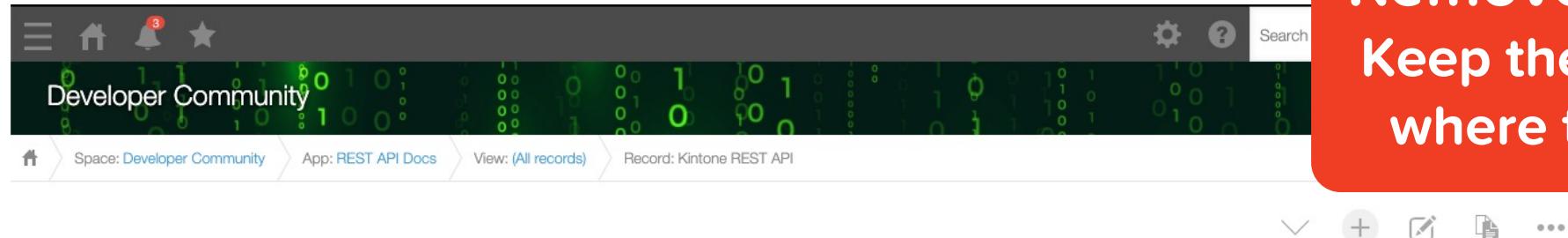
Missing - Unified Communication

Data Silos

Information is not being
shared effectively

Scattered Communication
Unclear where the
conversation is happening

What is Possible?



Where
Data
Lives

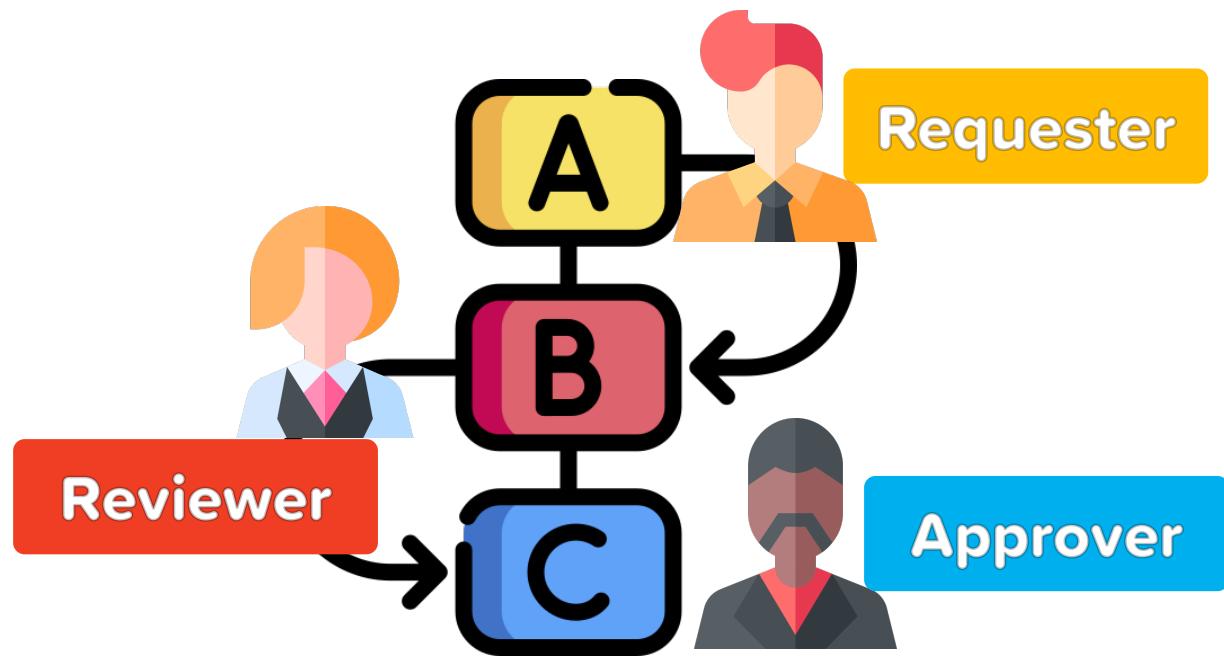
A screenshot of the Kintone REST API Docs interface. On the left, there's a sidebar with sections for "EN Section" (API Info), "EN API Group" (Kintone REST API), and "EN Method" (GET). Below these are fields for "EN API Name" (Get API Schema), "EN URL (Endpoint)" (/k/v1/apis/*.json), and "EN Article Link" (<https://developer.kintone.io/hc/en-us/articles/115006107628>). Under "Fix History", there's a table titled "Table" with columns "Date", "Fixed By", "Before", "After", and "Fix Details". A single entry shows "Aug 27, 2020" under Date, "Clare - Support" under Fixed By, and two screenshots of the "Get API Schema" page under Before and After. The Fix Details section contains the text: "Fixed the GET API List API link" and "Added apis.{key}.link".

A screenshot of a communication feed. It starts with a header "Write your comment here." followed by a list of messages. Message 1: "3: Clare - Support Aug 27, 2020 1:29 AM @Sharon - Developer @Genji Done! Like Reply". Message 2: "2: Sharon - Developer Aug 27, 2020 1:28 AM @Genji Oh, shoot, thanks for catching my mistake! Like Reply". Message 3: "1: Genji Aug 27, 2020 1:27 AM @Clare - Support Please take a look at this document. Like Reply". A red box highlights the entire communication feed.

Where
Communication
Lives

Workflow

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



The screenshot shows a software interface for a "Developer Community". The top navigation bar includes "Space: Developer Community", "App: KDP Event", "View: Summary", and "Record: No Server Data Visualization: Build a W".

The main area displays a workflow assignment dialog with the following fields:

- Assign Reporter** dropdown
- Change Assignee** dropdown
- Next Status:** Writing Report
- Select Assignee:** A list of users:
 - Genji (radio button)
 - Sharon - Developer (radio button)
 - John - Manager (radio button)
 - Clare - Support (radio button, highlighted with a blue border)
- Cancel** and **Confirm** buttons

To the right of the dialog, there is a "Write your comment here." text input field and a sidebar with user comments:

- Comment by Genji: "Assign this event to @Clare - Support" (with 1 like and 1 reply)
- Comment by John - Manager: "Assign this event to @Clare - Support" (with 1 like and 1 reply)
- Comment by Sharon - Developer: "Build a Word Cloud! together such a great w" (with 1 like and 1 reply)

At the bottom, there is an "Event Image" section showing a thumbnail of a visualization titled "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

Form

Views

Graphs

App Settings

Discard Changes

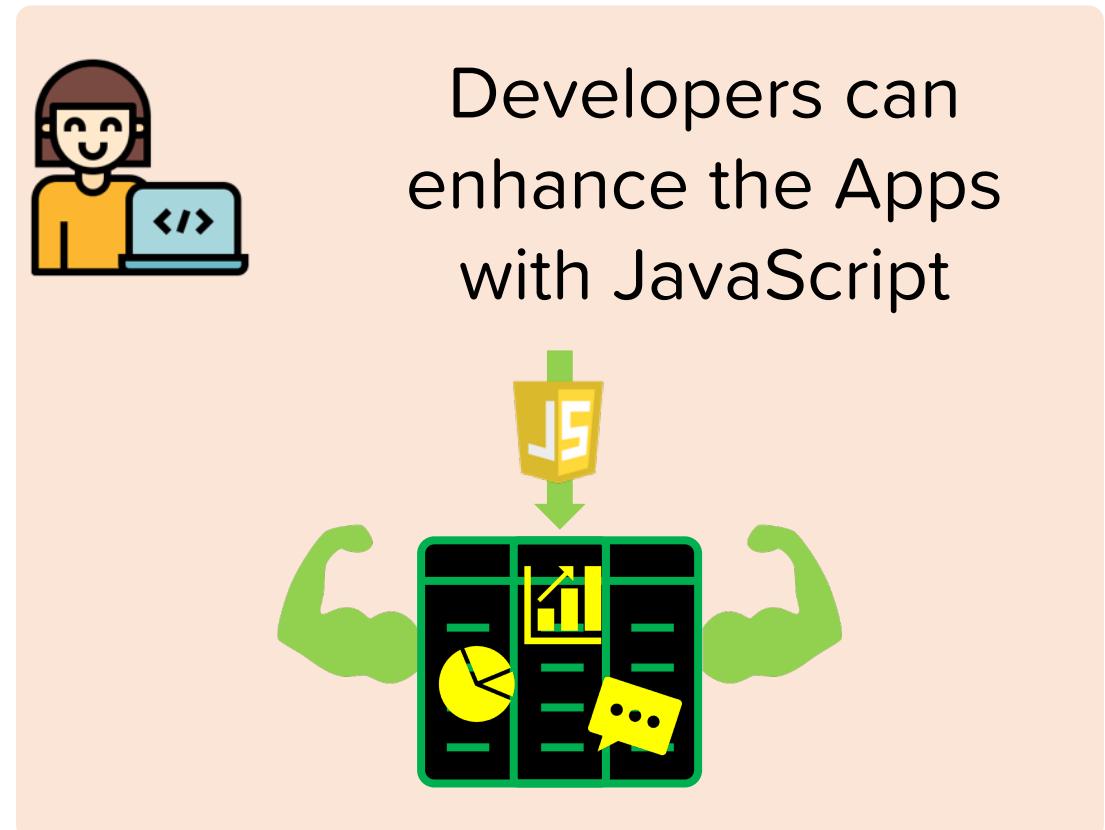
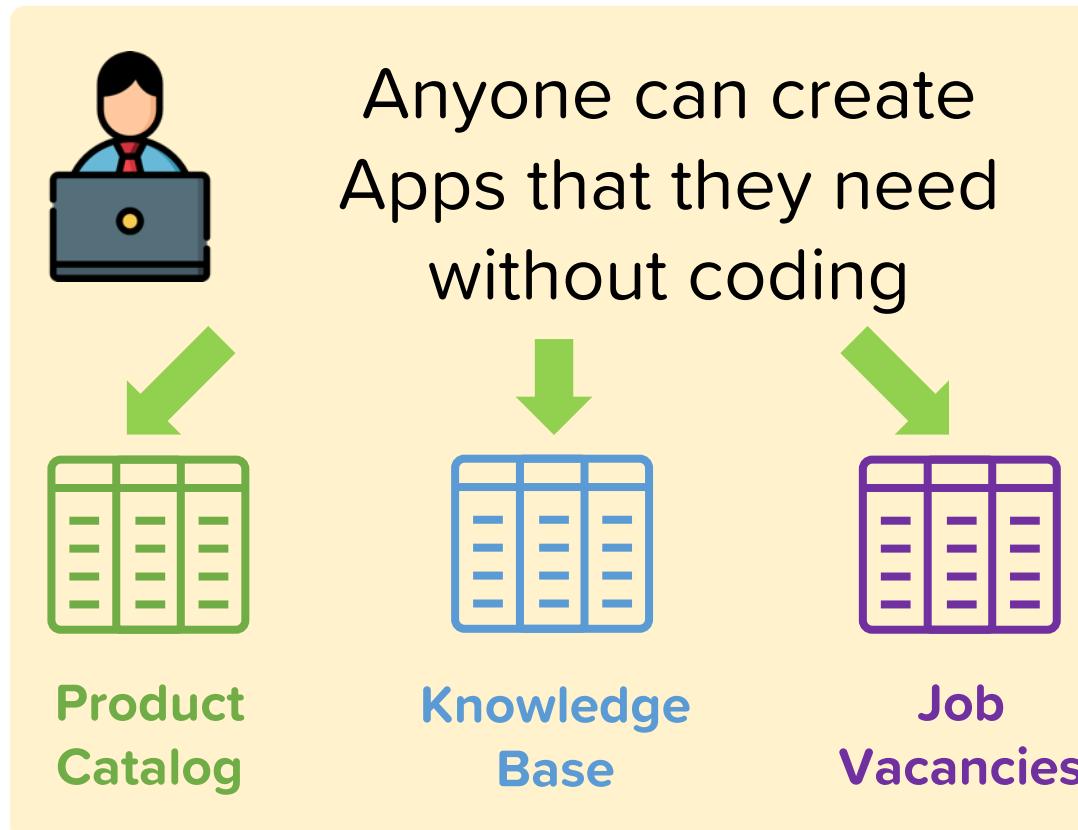
Update App

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

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

Everyone Contributes!

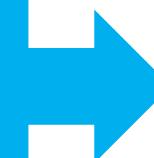
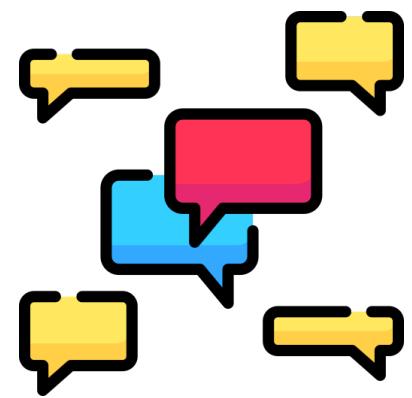
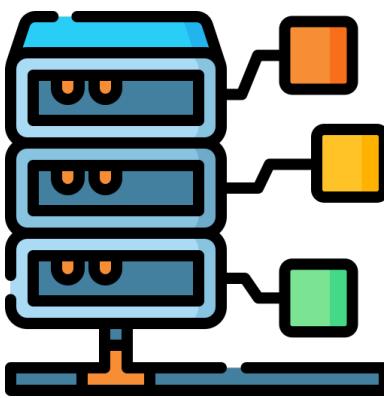
As a **no-code & low-code platform**, Kintone supports non-coders with visual programming UI while enabling sophisticated customization



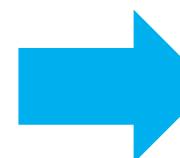
Fulfill the Promise of *Groupware*

Share meaningful insights about the data that become operationalized quickly.

Data + Communication



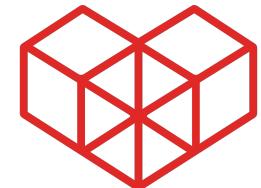
Insight



Action



How Developers Contribute

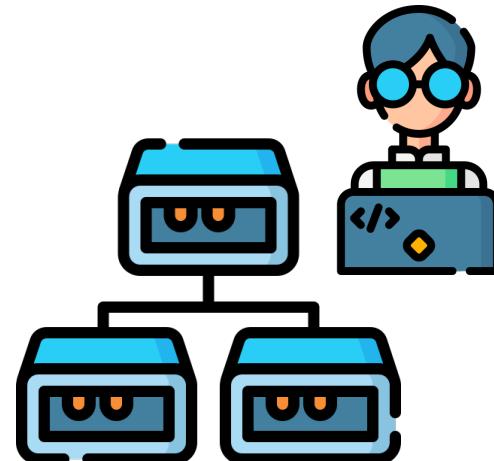


kintone
developer program

How Developers Contribute

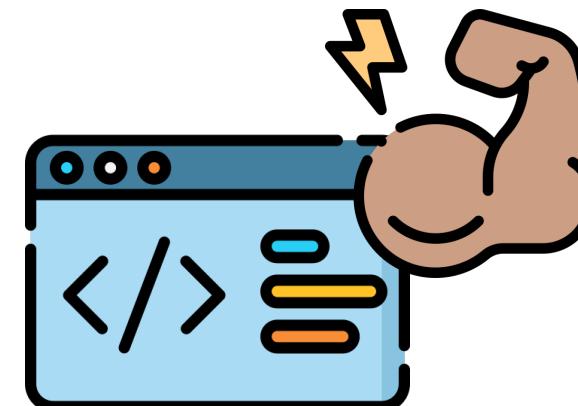
Command Center

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



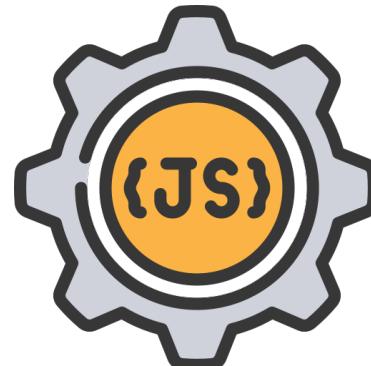
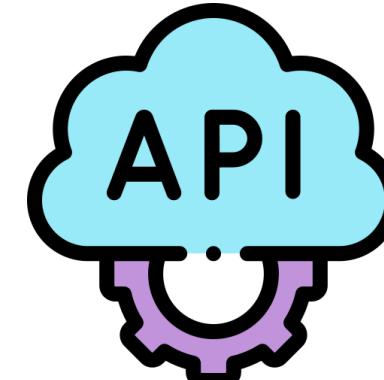
Enhancements

- Develop JavaScript customizations
- Build & share extensions



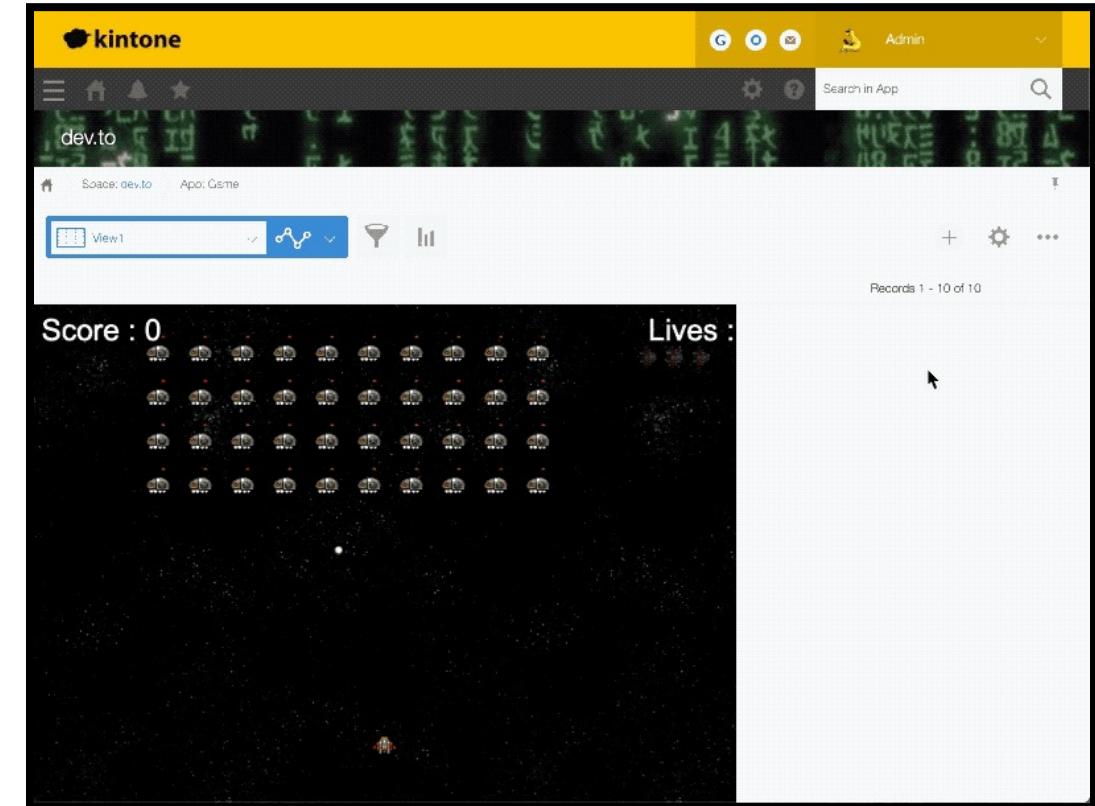
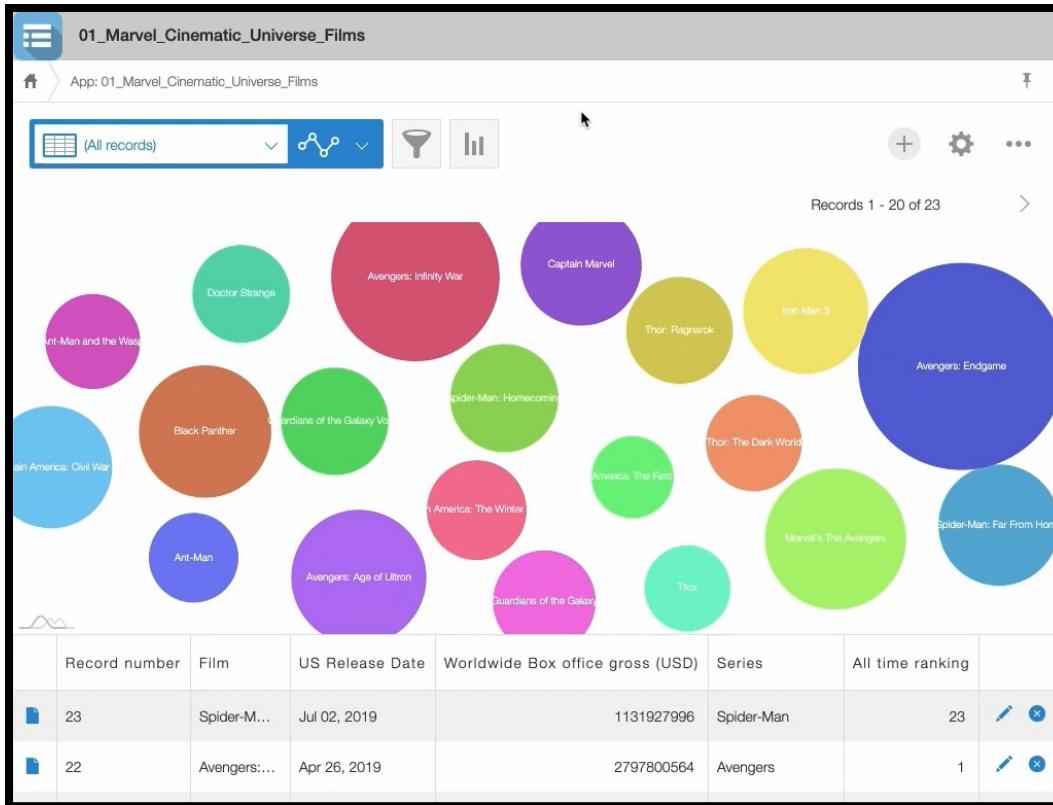
Tools Inside Kintone

- 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!

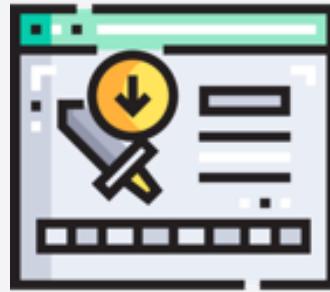


Contribute your
learnings to tech
blogs



Share your
projects with your
community!

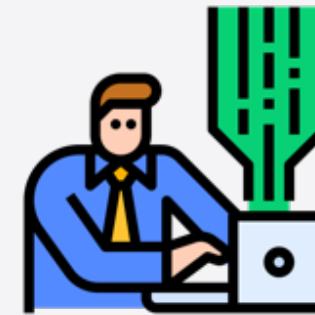
Kintone For Creating Revenue



Create & sell
Kintone
extensions



Consult with firms
on achieving
business goals

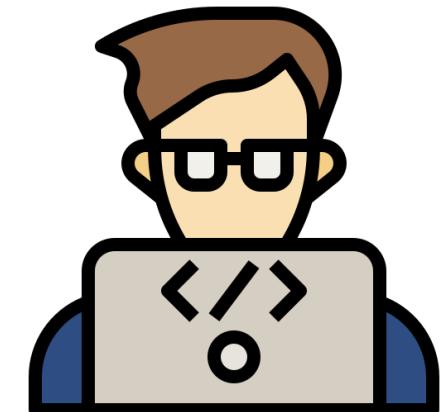


Develop Kintone
customizations for
customers

Quick 10-min Break



Back to the Live Coding!



Wrap Up

1 Starting a React Project

- Created a React project for the **frontend**
- Called Random User Generator API and outputted in React

2 Render an API Response

- Addressed the issue with **async rendering** in React
- Used **useState** and **useEffect** Hooks to have async code in React

3 Starting an Express Server

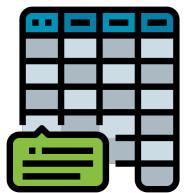
- Created a Express server project fo the **backend**
- Avodided **CORS errors** by making REST API calls from the server

4 Calling a Web Database

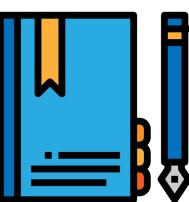
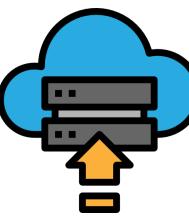
- Kintone is a no-code / low-code **web database**
- REST API calls to Kintone get the data & display in React

Next Steps

What are some next steps you can take?

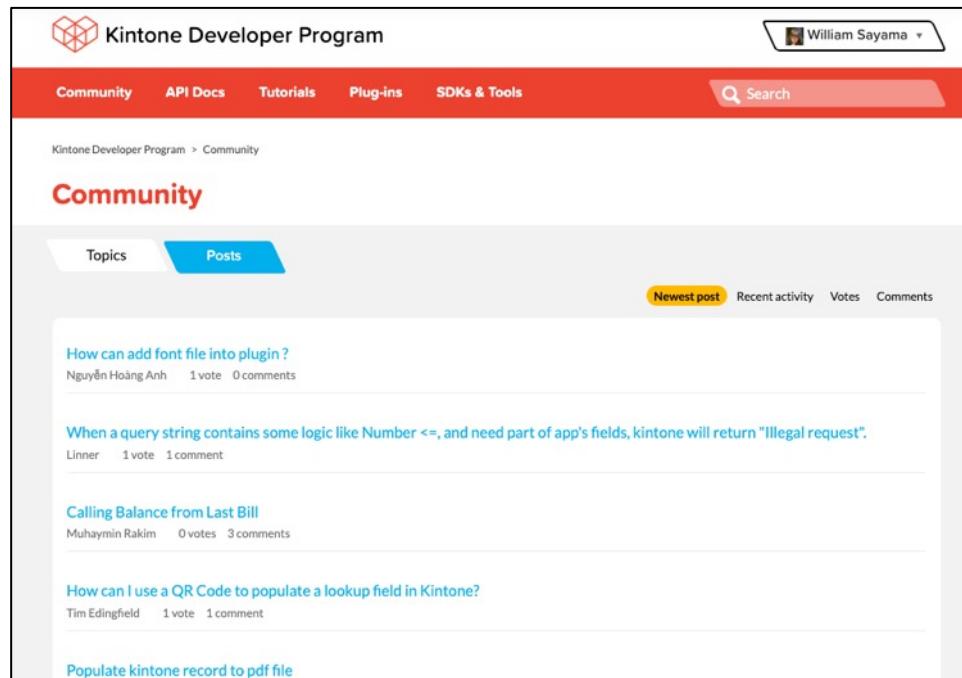


- Handle the response so it renders as tables
- Challenge making POST requests to add data into Kintone
- Try calling a public API from this [great list](#)
- Deploy your App somewhere like [Heroku](#) so others can see it
- Share your experience on dev.to!



Where Can I Get Help?

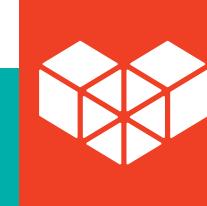
If you're stuck, share your code on the Kintone Developer Community forum or on Stack Overflow!



The screenshot shows the Kintone Developer Program Community forum. At the top, there's a navigation bar with links for Community, API Docs, Tutorials, Plug-ins, and SDKs & Tools. A search bar is also present. The main content area is titled "Community" and has tabs for "Topics" and "Posts". The "Posts" tab is selected. There are several posts listed:

- How can add font file into plugin ?** by Nguyễn Hoàng Anh, 1 vote, 0 comments.
- When a query string contains some logic like Number <=, and need part of app's fields, kintone will return "Illegal request".** by Liner, 1 vote, 1 comment.
- Calling Balance from Last Bill** by Muhammin Rakim, 0 votes, 3 comments.
- How can I use a QR Code to populate a lookup field in Kintone?** by Tim Edingfield, 1 vote, 1 comment.
- Populate kintone record to pdf file**





Any
Questions?

developer.kintone.io

Thank You!

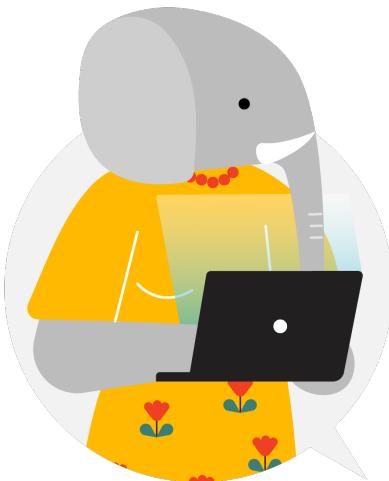


Thank You to Our Community Partner!



HackBuddy by JavaScriptLA

Join Our Future Workshops!



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



Join our Meetup to not miss out!

bit.ly/KDP_Events



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



bit.ly/KDP_Video

Thank You for Your Participation!

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



bit.ly/KDP_Q

