

**pnpm create @coot-rock/app**  
a cloud for people who don't like clouds

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# Apps For Me

- you're a nerd right?
- and you've got apps you "just wish" existed
- and you'd make it, but where do you put it?
- database? Auth? CSS???
- i'd rather not, I'm sure you wouldn't either.
- hosting personal apps is a chore
- , *but it doesn't have to be*

# @ coat-rack

- a platform for little apps
- that can live in your home
- that you can take offline with you

The screenshot shows a web-based application interface with a light beige background. At the top right, there are navigation links: 'Home' with a house icon, 'sign out' with a user icon, and a close button. On the left side, there are three vertical tabs with orange text: 'tasks' (which is active), 'kitchen-sink', and 'dev-docs-demo'. The 'tasks' section is divided into two main sections: 'To Do' and 'Completed'. The 'To Do' section contains three tasks: 'write presentation', 'do presentation', and 'include screenshot in presentation', each with an empty checkbox. To the right of these tasks is a large orange rectangular input field with a '+' button in the bottom right corner. The 'Completed' section shows one task: 'do work', which has a checked checkbox. Below the 'Completed' section is a small downward arrow icon. At the bottom of the page, there is a footer bar with icons for a dropdown menu, user profile ('nabeel'), and two other user icons.

Home

sign out

tasks

To Do

3 tasks to do

+ write presentation

+ do presentation

+ include screenshot in presentation

Completed

1 tasks completed

do work

kitchen-sink

dev-docs-demo

nabeel

# @Friends

- a little internet
- just for you
- and the people you care about

Home sign out ×

Tasks

To Do

2 tasks to do

+

we all do work

and also all the play

Completed

0 tasks completed

kitchen-sink dev-doy-demo

▼   public

# @create

- what you care about
- let `@coat-rack` focus on the rest

- app hosting
- database management
- application sandboxing
- offline synchronisation
- making it all look nice

```
... generate app  
pnpm create @coat-rack/app  
  
▼ my-app  
  ▼ src  
    index.tsx - app entrypoint  
    # styles.css - app styles  
  ▼ public  
    {} manifest.json - app metadata  
    {} package.json  
    JS postcss.config.js  
    TS tailwind.config.ts - config for app styles  
    TS tsconfig.json  
    ⚡ vite.config.ts - build config for application
```

```
src/index.tsx  
  
import { App, ProvideAppContext } from "@coat-rack/sdk"  
import { Button } from "@coat-rack/ui/components/button"  
  
import "./styles.css"  
  
export const MyApp: App = {  
  /**  
   * The Entrypoint for the app  
   */  
  Entry: ({ context }) => {  
    return (  
      <ProvideAppContext {...context}>  
        <h1 className="bg-red-500">Hello my-app</h1>  
        <Button>Click Me</Button>  
      </ProvideAppContext>  
    )  
  },  
}
```

# About the Project

# First, a bit about me

- my name is Nabeel
- i care about some things:
  - data ownership
  - the democratisation of technology
  - ... other things that are unrelated to this presentation

# Why @coot-rack

- enable non-developers to take control of their data
- make it easier to develop personal software
- the *thrill* of building a “platform”

# A Platform?

- you can run it
- you can run things on it
- you can build things for it
- it handles a lot of gross things for you

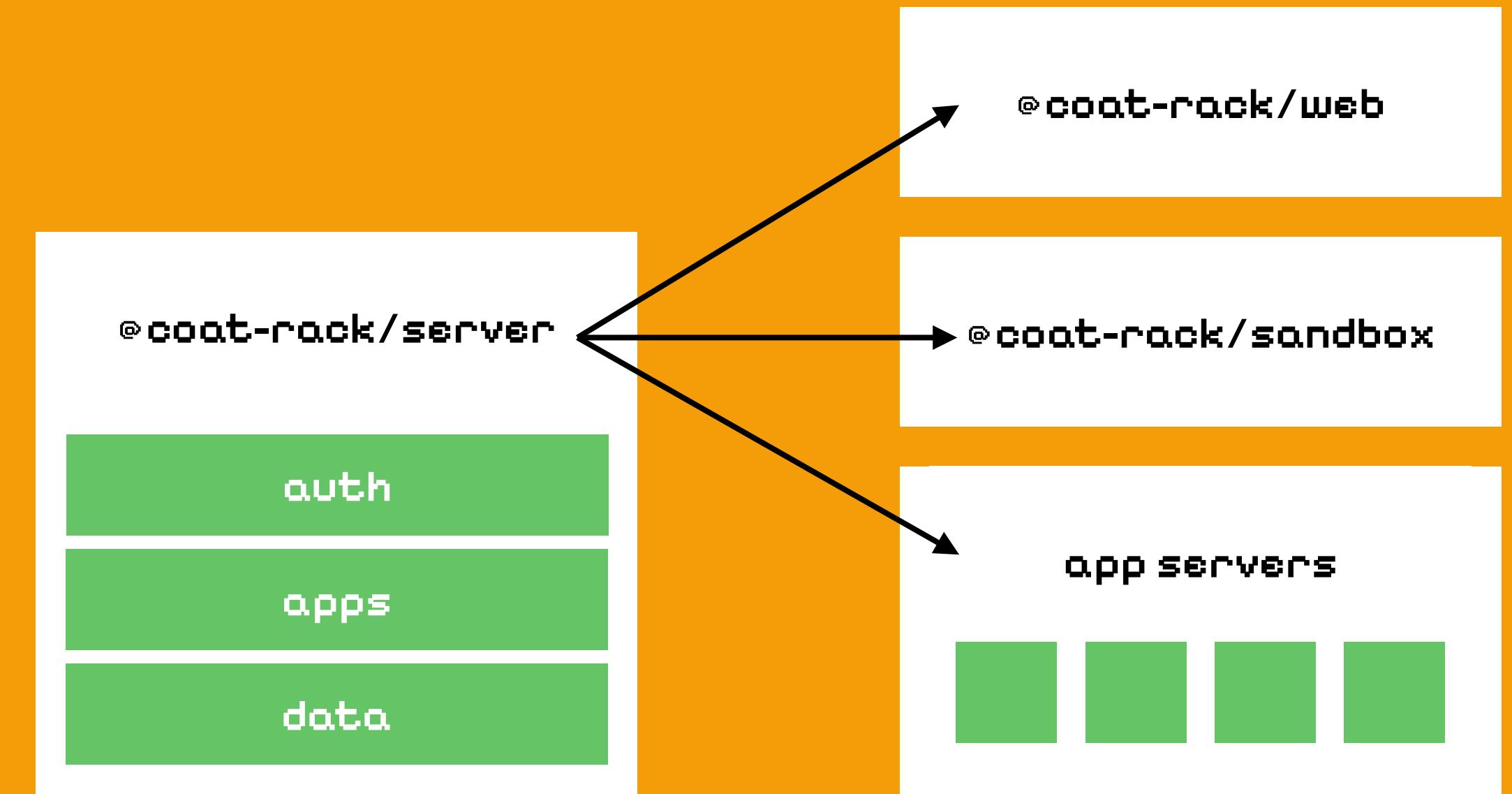
# Project Outline

- `@coat-rack/server` - app hosting & data management
- `@coat-rack/web` - sandboxing & synchronisation
- `@coat-rack/create-app` - tools for creating new apps
- `@coat-rack/ui` - basic ui building blocks
- `@coat-rack/sdk` - interfacing with platform functionality
- `@coat-rack/catalog` - some first-party apps

# Architecture - Application Orchestration

## pnpx @coat-rack/server

- multiple apps orchestrated by the main server
- manages application installation and lifecycle
- manages data, auth, and secure sandboxing



# Data Isolation

Home sign out ✕

Tasks

To Do  
2 tasks to do

we all do work

and also all the play

Completed  
0 tasks completed

kitchen-sink

dev-day-demo

▼ 🔍 ↻ public ↻

Environment	To Do Tasks	Completed Tasks
kitchen-sink	we all do work, and also all the play	0
dev-day-demo	write presentation, do presentation, include screenshot in presentation	0

Home sign out ✕

Tasks

To Do  
3 tasks to do

we all do work

write presentation

do presentation

include screenshot in presentation

and also all the play

Completed  
1 tasks completed

do work

kitchen-sink

dev-day-demo

▼ 🔍 ↻ public ↻ devday

Environment	To Do Tasks	Completed Tasks
kitchen-sink	we all do work, write presentation, do presentation, include screenshot in presentation, and also all the play	0
dev-day-demo	0	do work

Home sign out ✕

Tasks

To Do  
3 tasks to do

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Completed  
1 tasks completed

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dev-day-demo

▼ 🔍 ↻ nabeel ↻

To Do Tasks	Completed Tasks
write presentation, do presentation, include screenshot in presentation, and also all the play	do work

# Design System

Home

sign out ✕

Radio Group

Option One  
 Option Two

Checkbox

Accept

Select

Theme

Calendar

**kitchen-sink**

November 2023

<	Su	Mo	Tu	We	Th	Fr	Sa	>
	26	27	28	29	30	31	1	
	2	3	4	5	6	7	8	
	9	10	11	12	13	14	15	
	16	17	18	19	20	21	22	
	23	24	25	26	27	28	29	
	30	1	2	3	4	5	6	

Card

Card Title

**play-demo**

Home

Colors

sign out ✕

bg/fg card popover primary

secondary muted accent destructive

border input warning chart-1 chart-2

chart-3 chart-4 chart-5

Button

Click Me Click Me Click Me

Input

Textarea

Radio Group

Option One  
 Option Two

**kitchen-sink**

**play-demo**

Home

Tasks

sign out ✕

To Do

3 tasks to do

+ write presentation  
+ do presentation  
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Completed

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do work

**kitchen-sink**

**play-demo**

# Technical Learnings

- offline synchronisation
- sandboxing and data access
- gnarly javascript build configs
- way too much about the browsers
- building APIs for developers
- the importance of dog fooding

# Technical Challenges

- lots of moving parts
- things can break at so many different levels
- browser inconsistencies
- HTTPS
- naming things - user vs app developer vs platform
- documentation
- mobile operating systems still hate PWAs

# More than tech

- it's fun solving difficult problems
- staying motivated is challenging for long projects
- people like small software
  - we should make more of it

# The Future

- make installation even easier
- biometric authentication
- more apps
- an app store?

# We're on the Web, come say hi

The image shows a web browser with two tabs open against a teal background.

**Left Tab: Coat Rack**

Welcome to Coat Rack!

Hang up your coat, let's get started!

[Let's go](#)

**Right Tab: coat-rack / app**

Code Issues 22 Pull requests 4 Discussions Actions Projects 1 Security 9 Insights Settings

app Public

main 26 Branches 170 Tags

Go to file Add file Code

nabeelvalley add sample apps to sidebar 0df2875 - last month 397 Commits

- .changeset Version Packages (alpha) last month
- .github/workflows add pnpm setup action 4 months ago
- .husky use lint-staged for formatting 6 months ago
- .vscode UI component setup in progress last year
- apps Version Packages (alpha) last month
- catalog Version Packages (alpha) last month
- docker remove unnecessary environment variable in dockerfile 4 months ago
- docs add sample apps to sidebar last month
- packages Version Packages (alpha) last month
- .dockerignore wip docker/caddy setup 4 months ago
- .gitignore app installation backend last year
- .npmrc feat(create-turbo): create basic last year
- .pnpmfile.js make catalog apps publishable 6 months ago

About Data ownership for non-technical peeps  
coat-rack.github.io/app/

Readme  
GPL-3.0 license  
Activity  
Custom properties  
1 star  
2 watching  
0 forks  
Report repository

Releases 170 tags  
Create a new release

Packages No packages published  
Publish your first package