Speed up your delivery process

with storyBook and Jenkins

DEVOXX™ MOROCCO by X HUB

About this talk

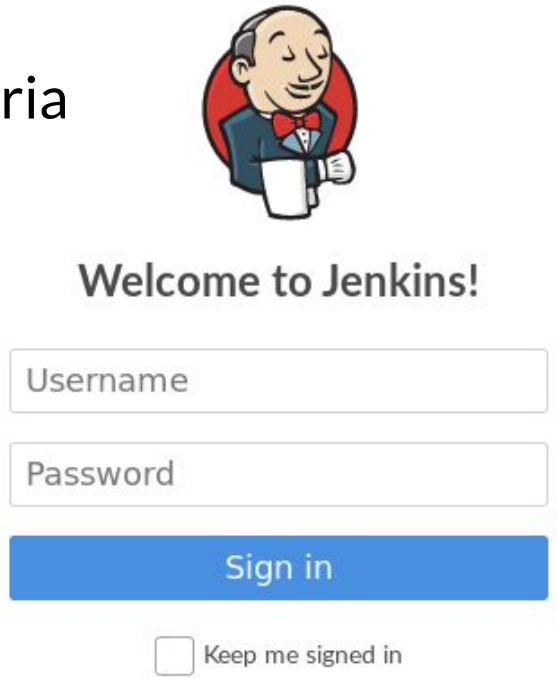
Speed up your delivery process

cloudbees

About Thorsten

CV milestones

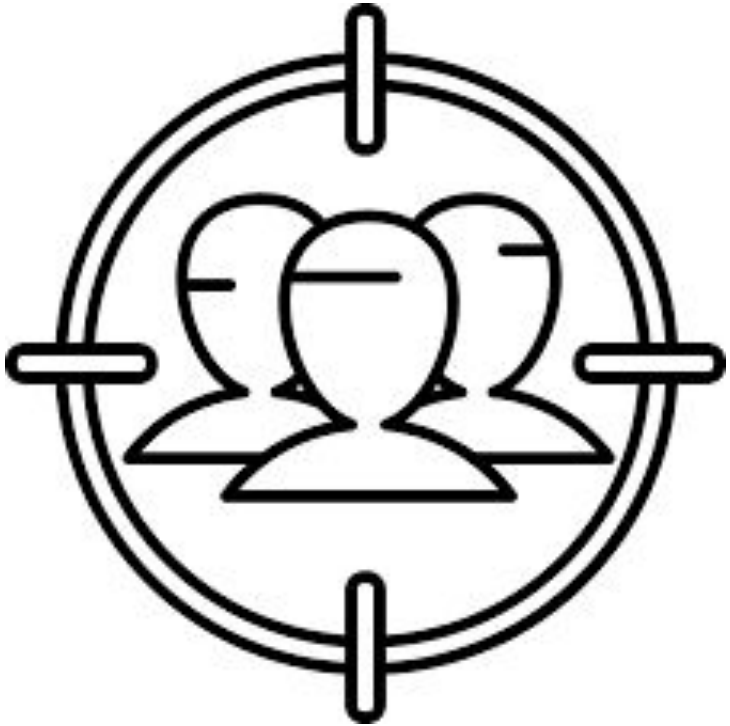
- Senior Software Engineer at CloudBees, Iberia
- ASF Member (Cocoon, Forrest, Lenya)
- Jenkins and BlueOcean core contributor
- 15+ years full-stack development
- 5+ years front end focused
- Github: scherler



Target Audience

Am I right in this session?

- Developers
  - JavaScript
  - HTML & CSS
  - Node
- Project Manager
- Designers



The Problem

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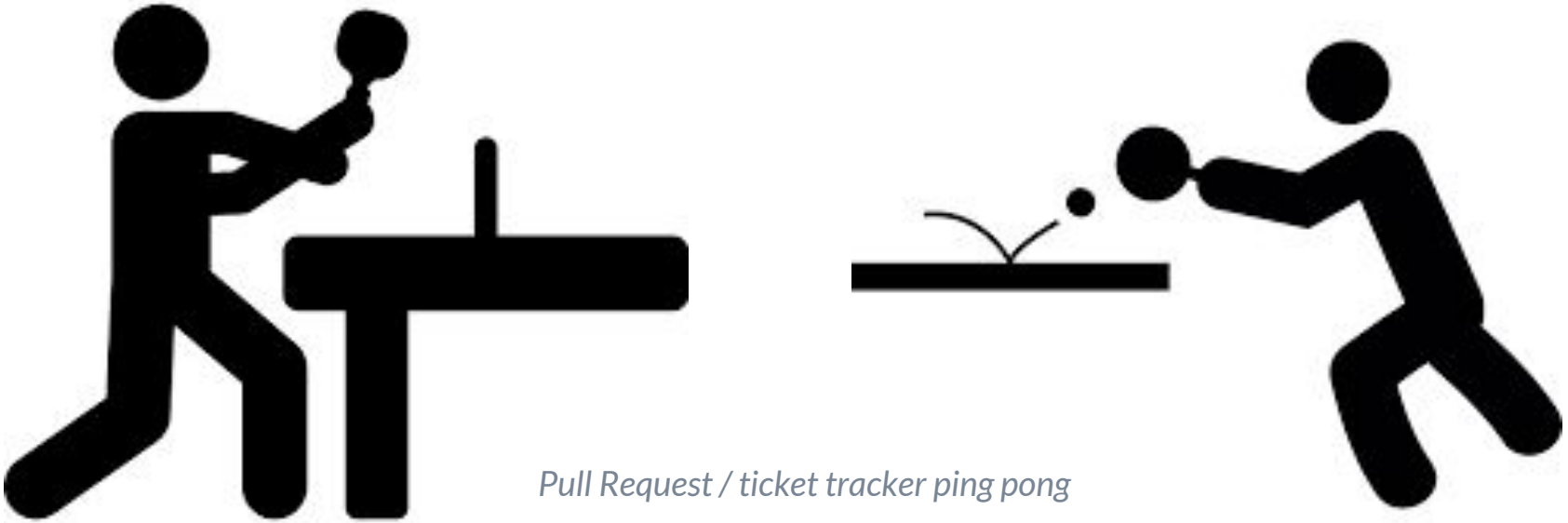
The usual validation process

Between designer & developer



Pull Request / ticket tracker ping pong

Solution

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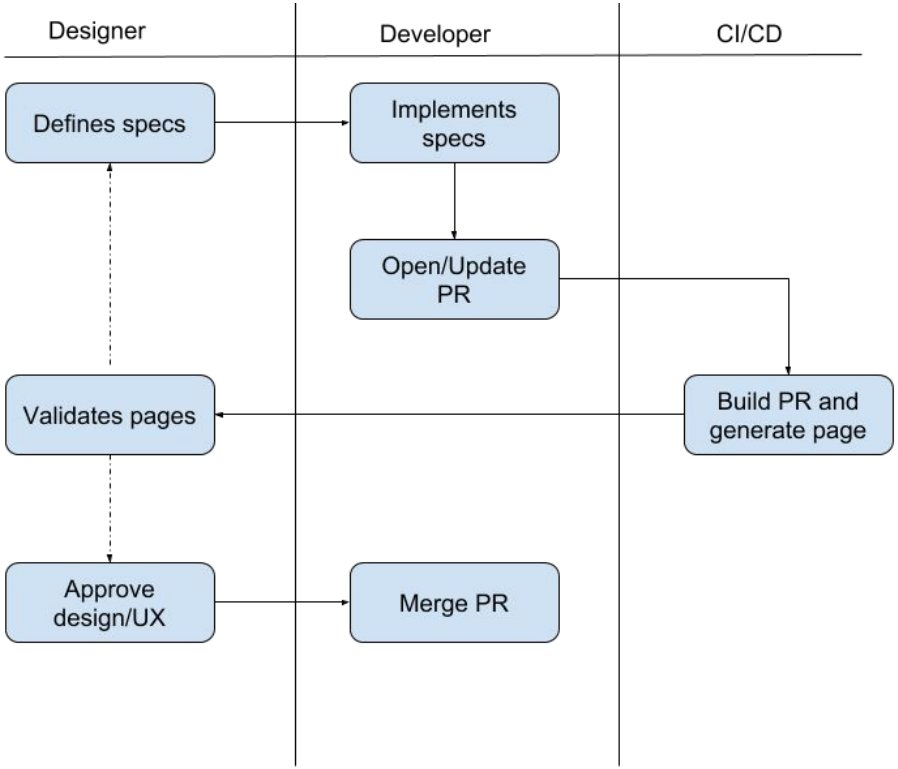
A better validation process?

Let CI/CD help you reduce time spend on validation



Overview

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What are we going to use?

...and why?

- TechStack
  - Jenkins
  - React
  - ReactStoryBook
  - JenkinsX

Create your own with Jenkins

Like I did in earlier project.

- How to change your code?
- How to configure Jenkins?
- Demo
  - How it looks like in ReactStoryBook?
  - How in Jenkins?

Put the X into Jenkins

Why not use preview environments for your app?

- Cloudbees Core based on JenkinsX
- Demo

CloudBees
Core

What and Why?

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Jenkins

Open source automation server

Jenkins is a self-contained, open source automation server which can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.

Jenkins can be installed through native system packages, Docker, or even run standalone by any machine with a Java Runtime Environment (JRE) installed.

Jenkins X

Native CI/CD for Kubernetes

Jenkins X has the concepts of Apps and Environments built in.

Jenkins is embedded as a pipeline engine as part of the installation for a team.

Jenkins X does not aim to replace Jenkins, but builds on it with best of breed open source tools.

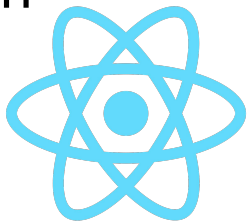
React

A JavaScript library for building user interfaces

Just the UI - “the V in MVC”, React makes no assumptions about the rest of your technology stack

Virtual DOM - React abstracts away the DOM from you, giving a simpler programming model and better performance.

Data Flow - React implements one-way reactive data flow which reduces boilerplate and is easier to reason about than traditional data binding.



React StoryBook

The UI development environment you'll ♥ to use

Storybook is a development environment for UI components.

It allows you to

- browse a component library,
- view the different states of each component
- interactively develop and test components.

React StoryBook

...with addons

To demonstrate and simulate quickly different use-cases of our components.

Implement unit testing and cover the acceptance criteria with those tests.

React StoryBook

The UI development environment you'll ♥ to use

Create your own

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Example Code

...see the changes in PR-4

https://github.com/scherler/jw17boseed

Branches

- master
- devoxx

GitHub

Example Code

...how to run

StoryBook

- npm install
- npm run storybook

See site in jenkins

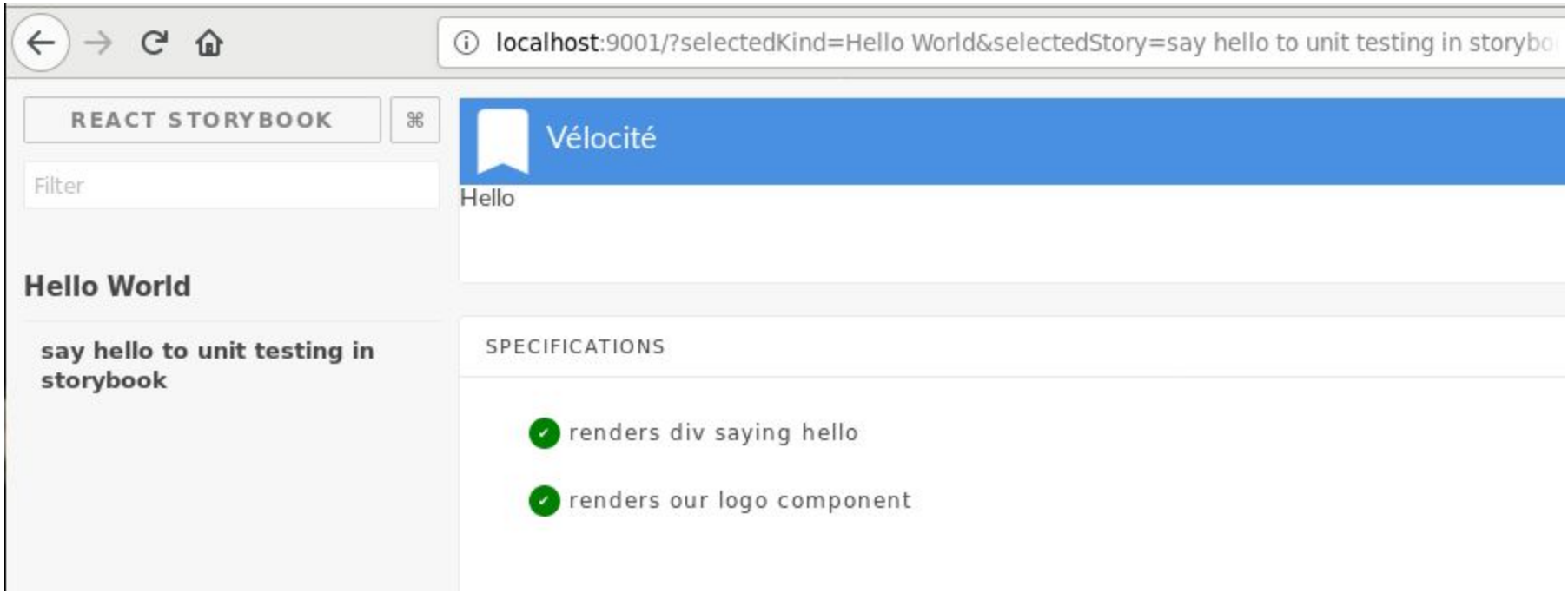
...configure security

Render within the same CI/CD server

-Dhudson.model.DirectoryBrowserSupport.CSP=”sandbox allow-same-origin allow-scripts;”

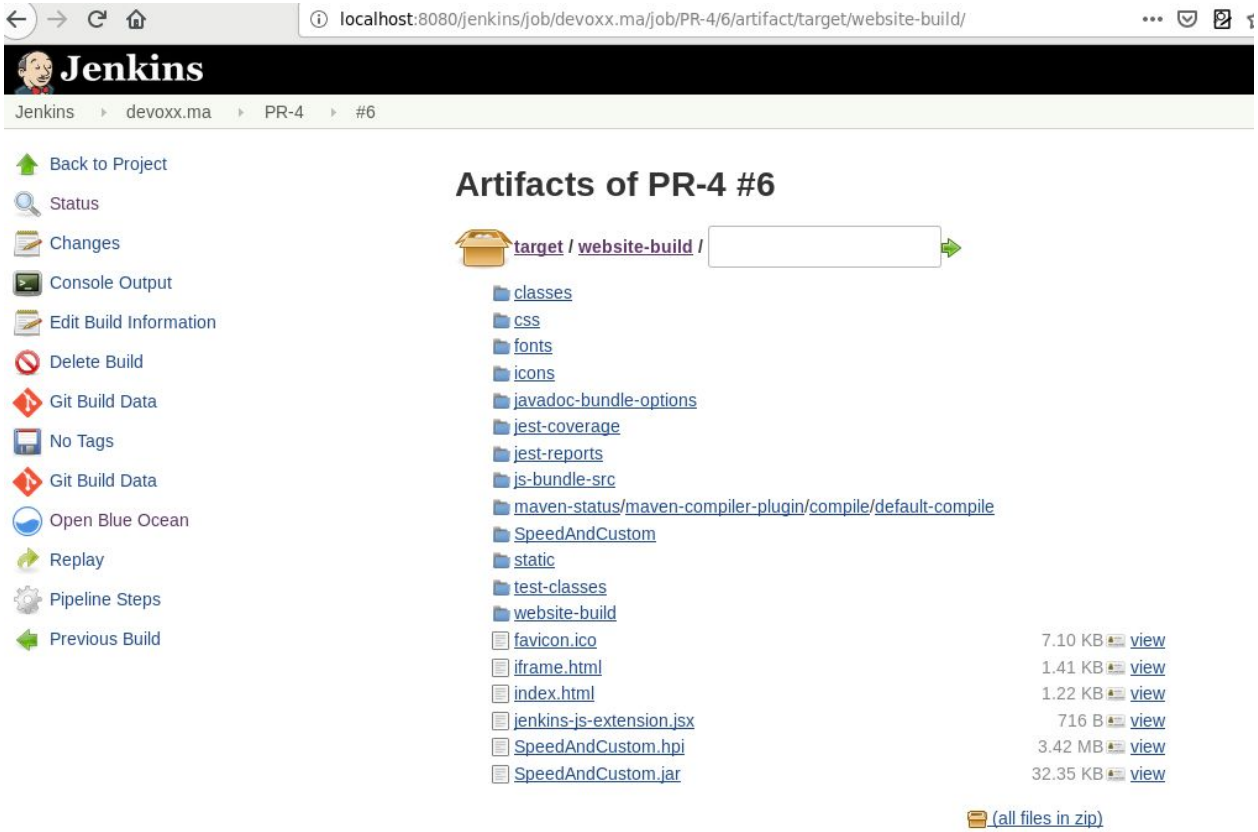
StoryBook

...of our demo



CI/CD Server

...will show



CI/CD Server

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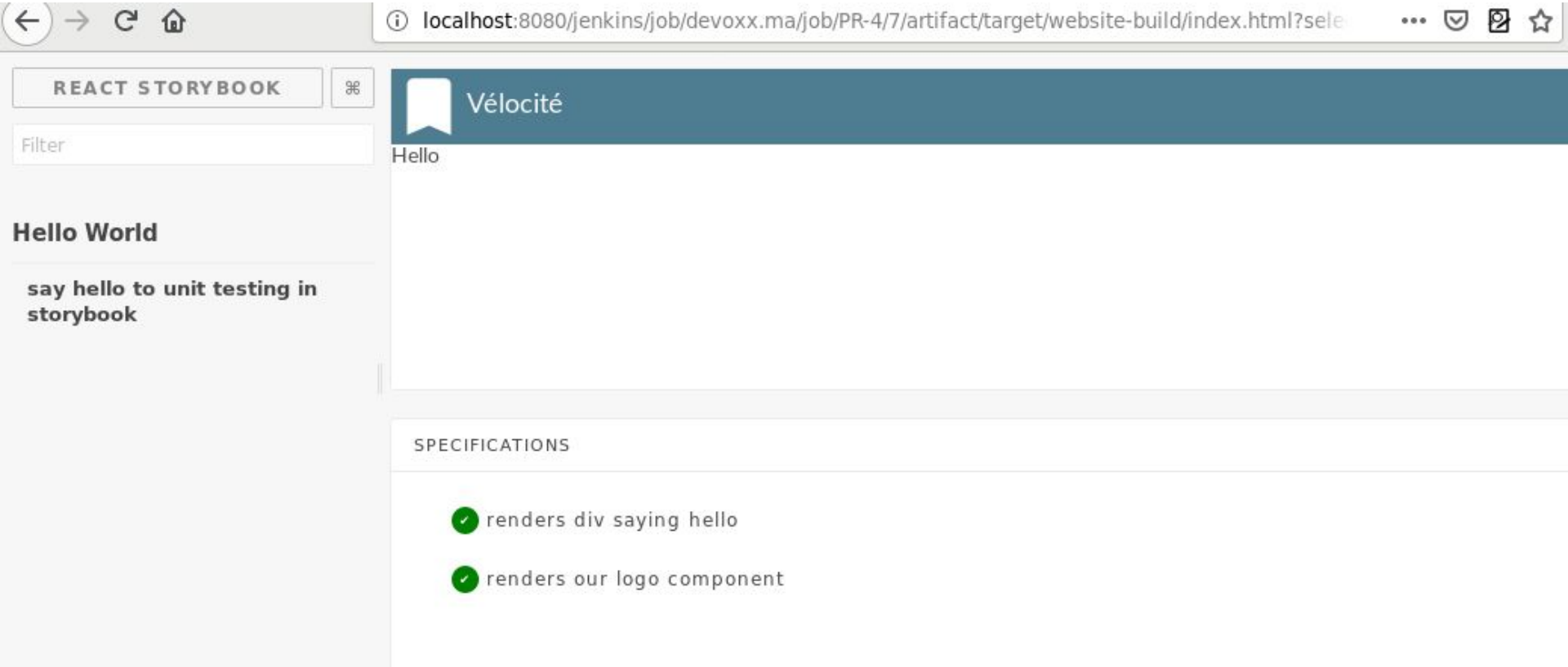
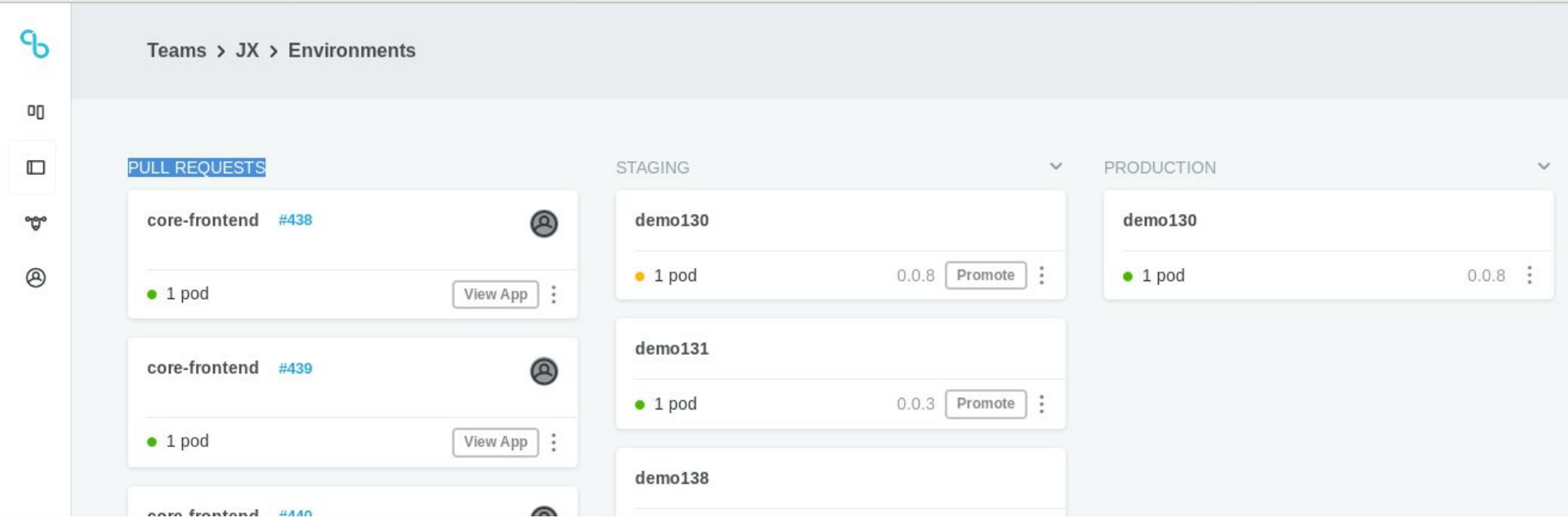


CloudBees Core

Flexible, governed continuous delivery starts here

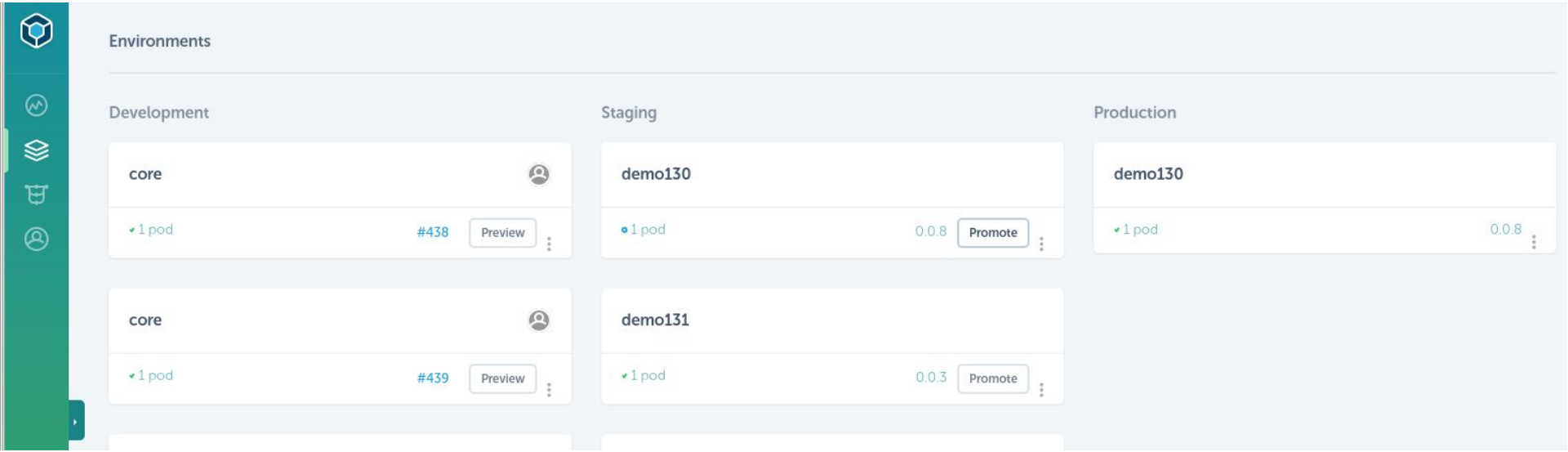
CloudBees Core

Front end needs to be adopted from



CloudBees Core

2 month



CloudBees CodeShip

Ship faster with CI/CD as a Service

Shipyard Styleguide

CloudBees CodeShip has the Design we wanted

- Common Corporate Identity
- Fresh Look ‘n Feel

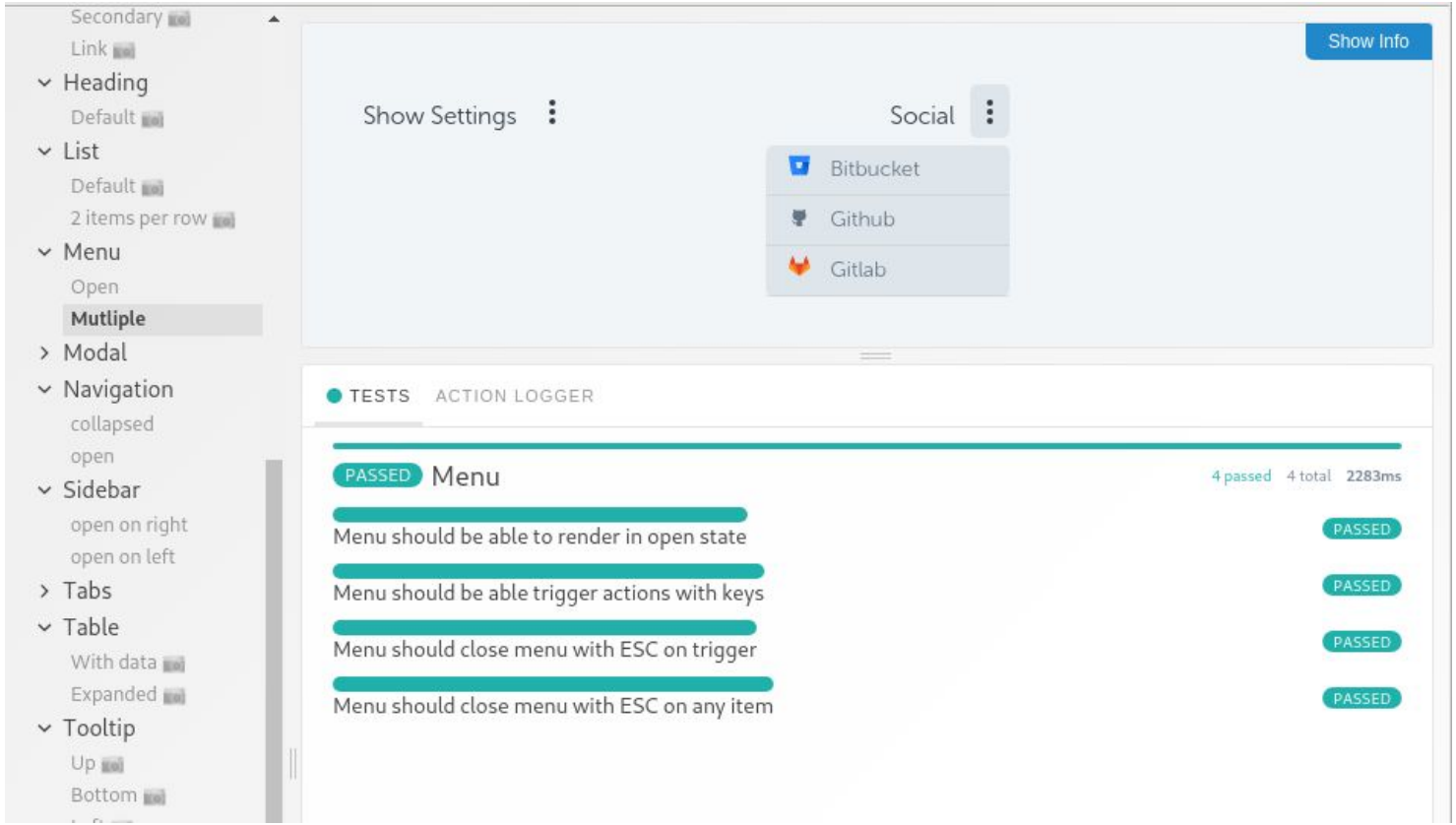
...but

- functional CSS
- helper classes

Solution

StoryBook

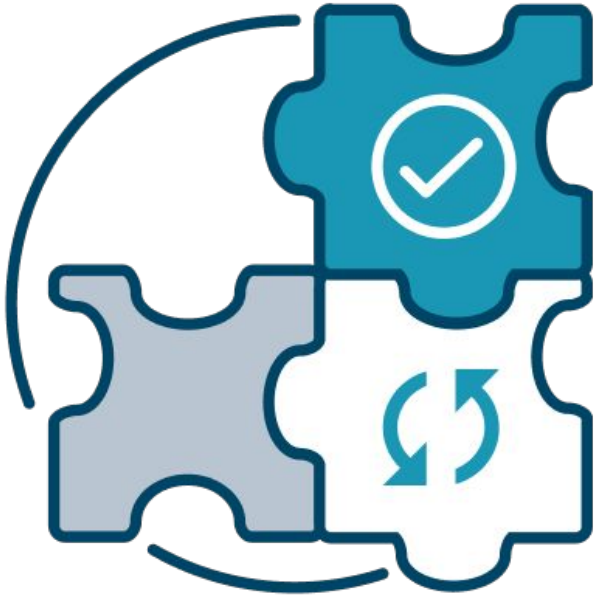
CloudBees React-Shipyard



Other Enhancements

Software at the speed of ideas

- Typescript
- Monorepo
- Hooks



¿Questions?

Thank you! Merci beaucoup!

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