An event-driven approach to building Elixir applications

Let's start by introducing the

application

STRAVA

The #1 app for runners and cyclists

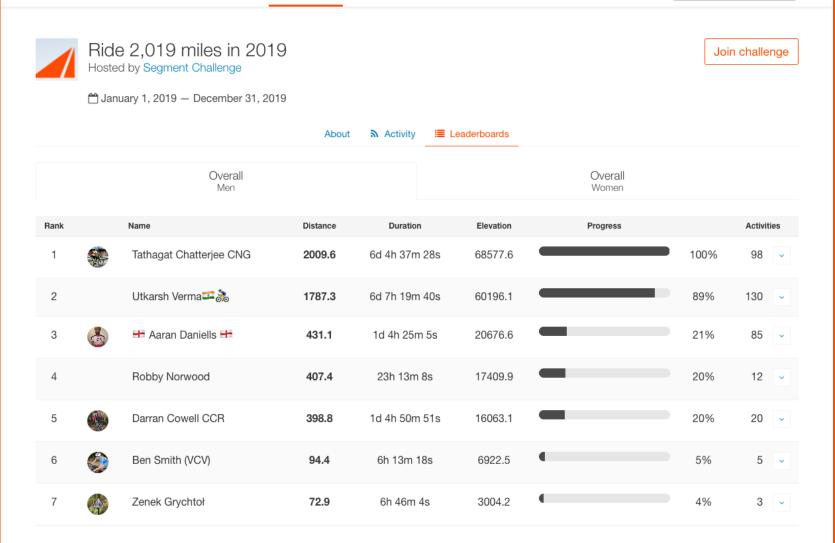


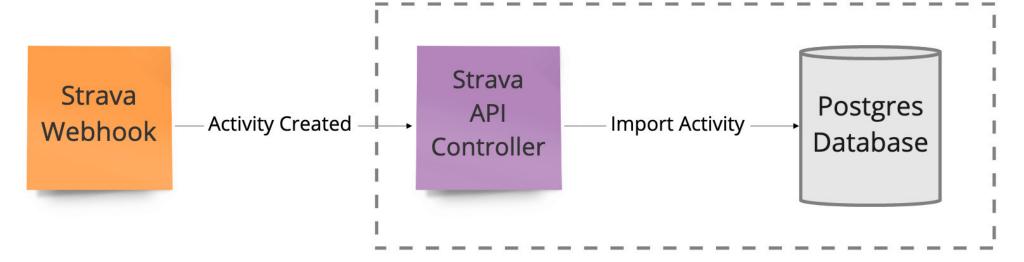
| f | Sign up with Facebook | |
|-----------|-----------------------|--|
| G | Sign up with Google | |
| | or | |
| \square | Use my email | |

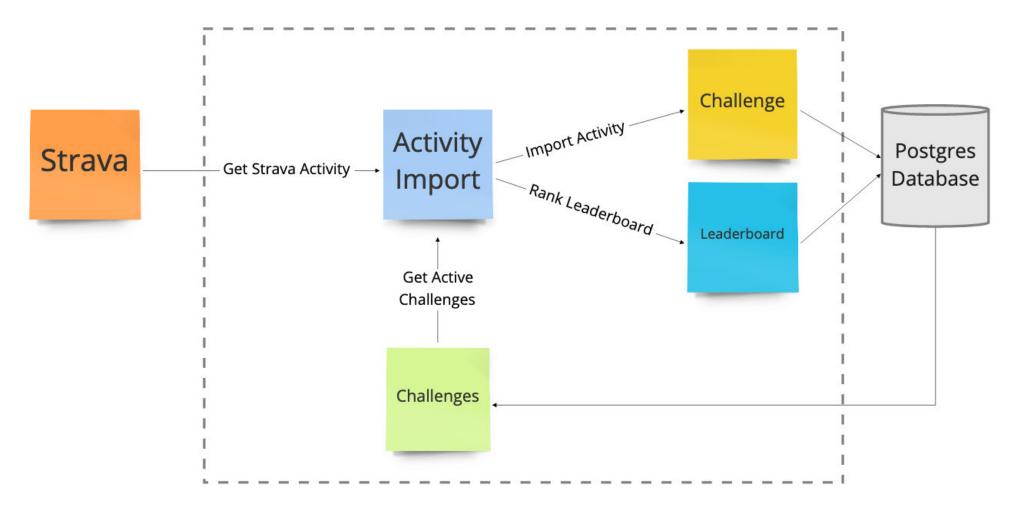
By signing up for Strava, you agree to the Terms of Service. View our Privacy Policy.

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Connect with STRAVA









Sorry, you've lost 8th place

You just lost 1 place on Stage 2 VCV Sleepers Hill.

You are now in 9th place.

There are **32 hours left** to attempt the stage before it ends. So get out there, ride hard and try again.

- Segment Challenge

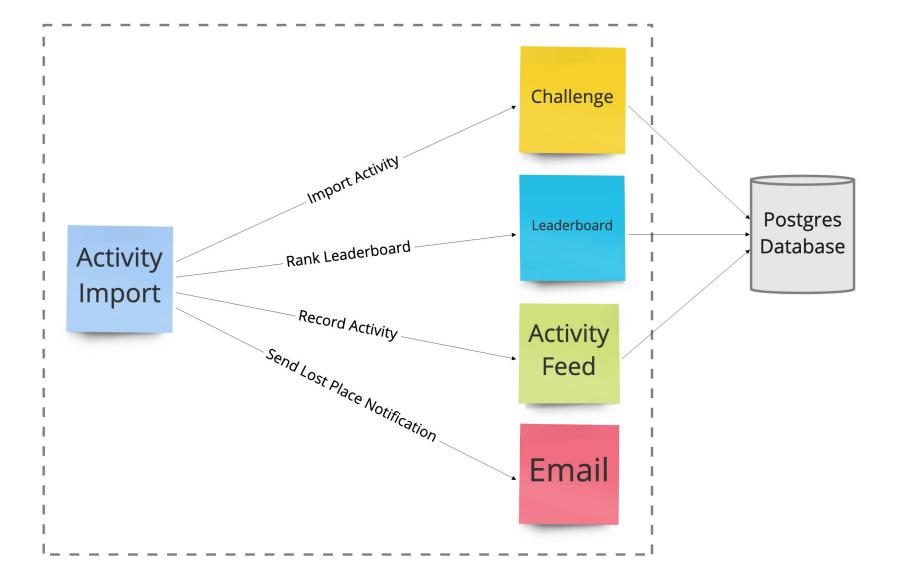
You received this message because you are a

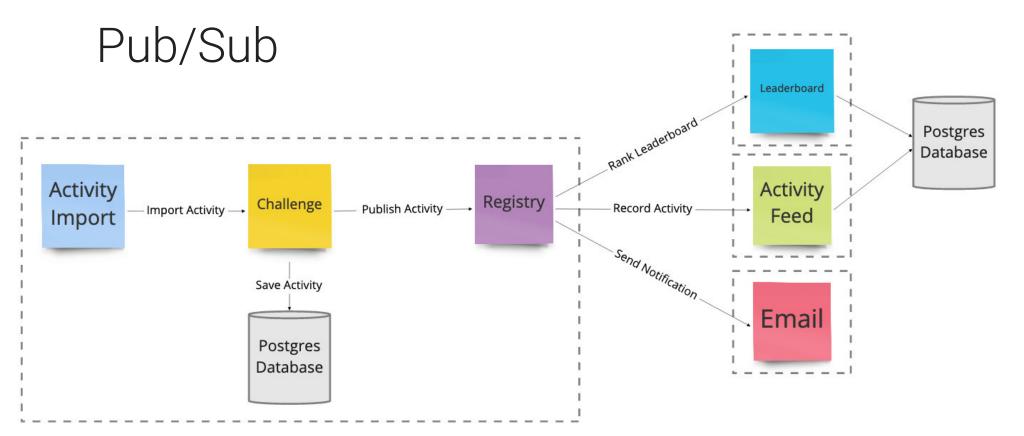
Unsubscribe from notification emails when some



Ben Smith (VCV)

Recorded an attempt at stage VCV Sleepers Hill of **3:19** February 28, 2019 at 9:53am





Using domain

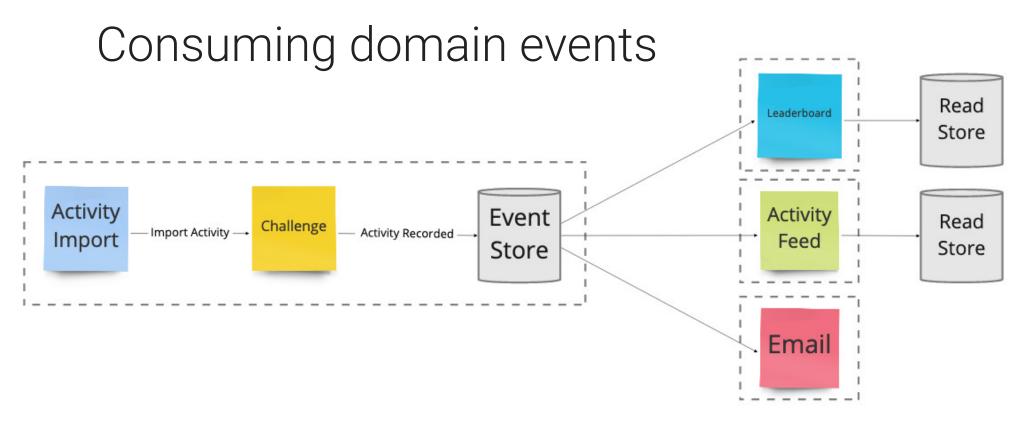
events as the source of truth

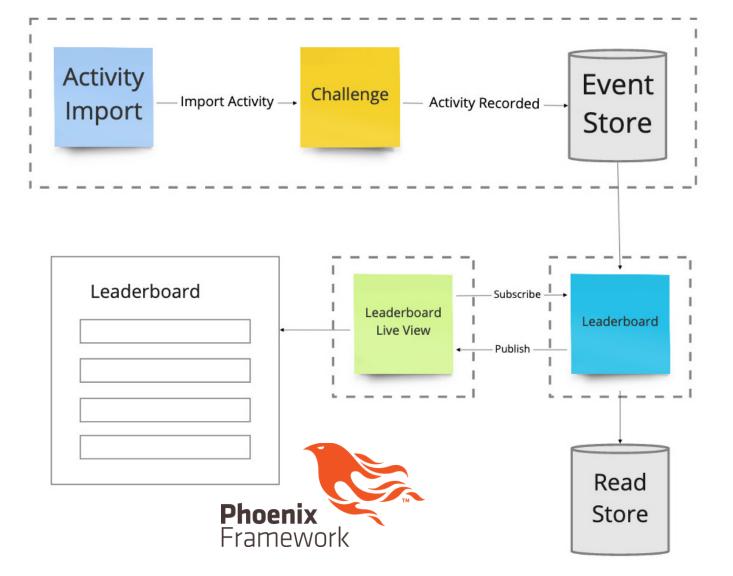
Domain event

- Record of something that took place in the domain
- An immutable, historical fact
- Named in the past tense using the language of the business
- Examples:
 - Challenge Started
 - Competitor Joined
 - Activity Recorded
 - Leaderboard Ranked

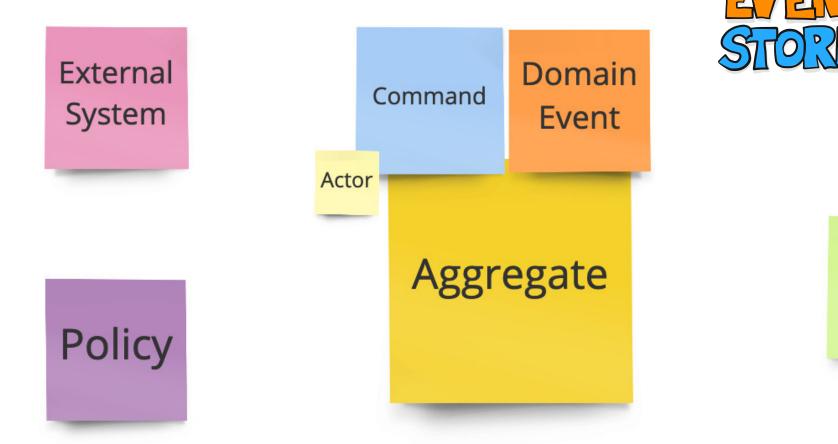
Recording domain events



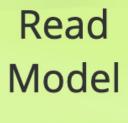




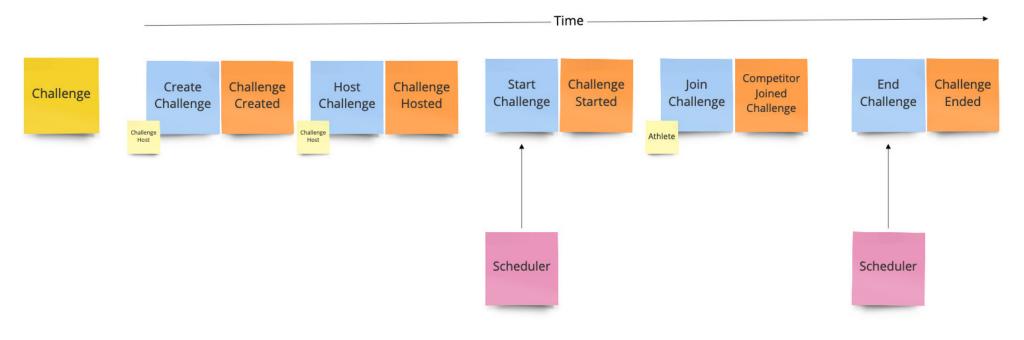
How do I design using events?

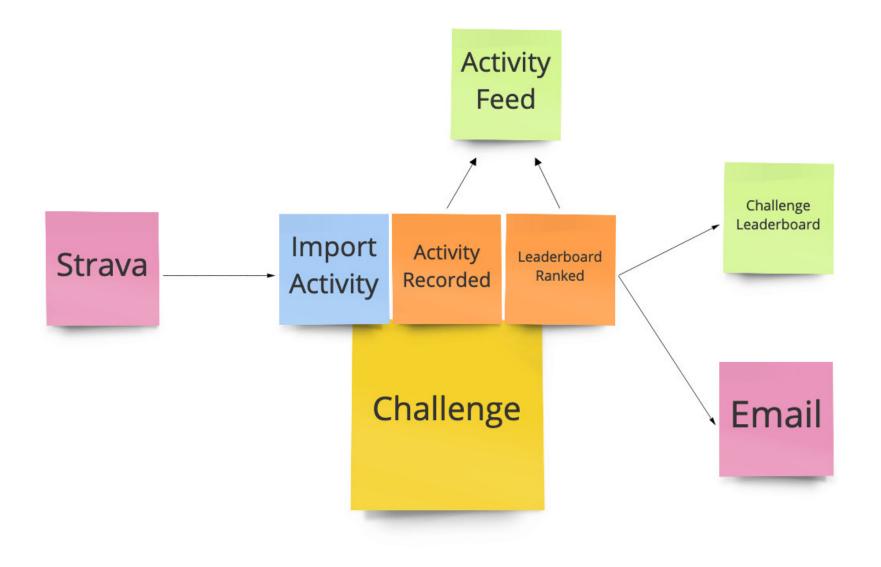






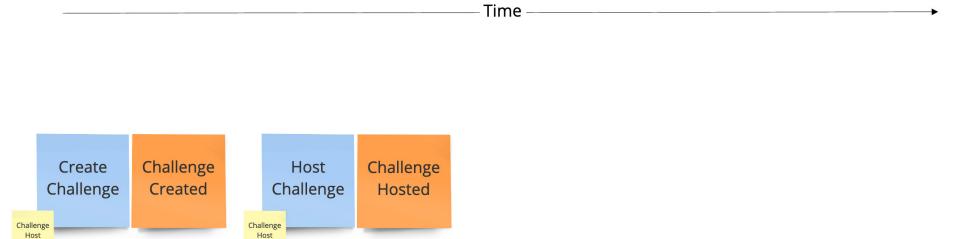
Challenge lifecycle



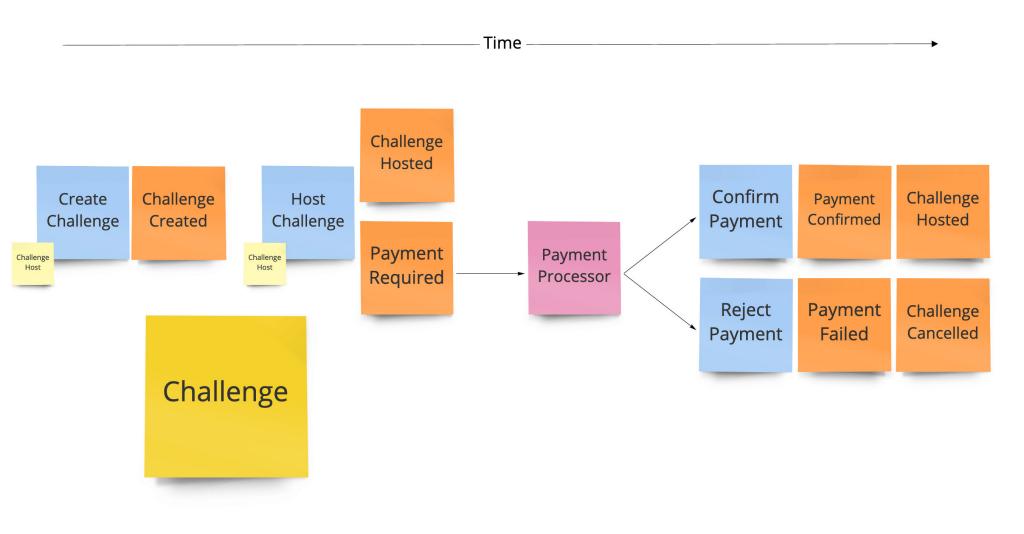


What about changing

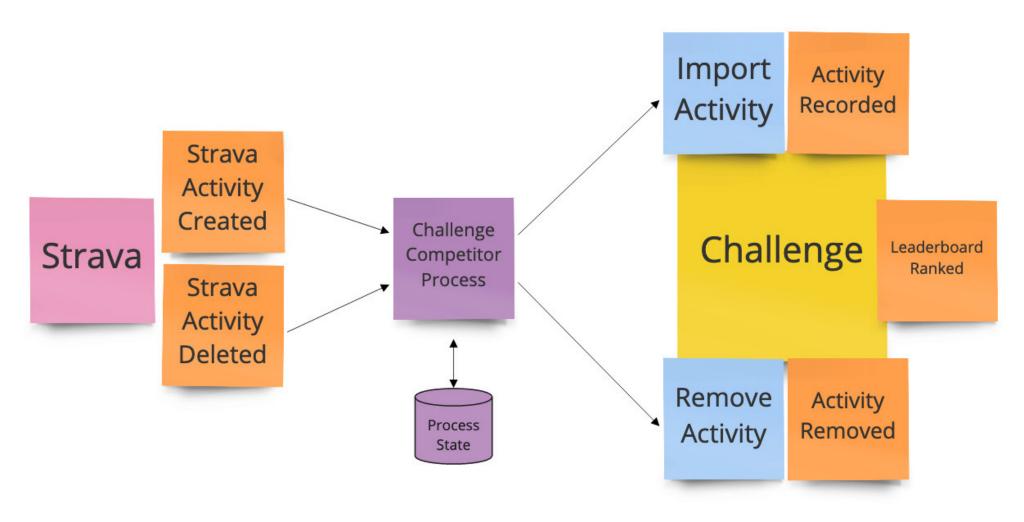
requirements?

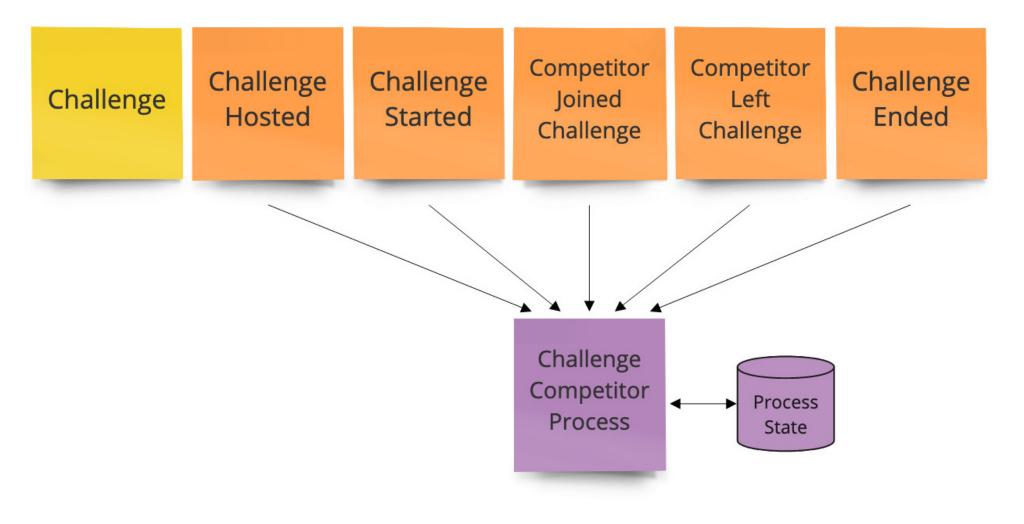


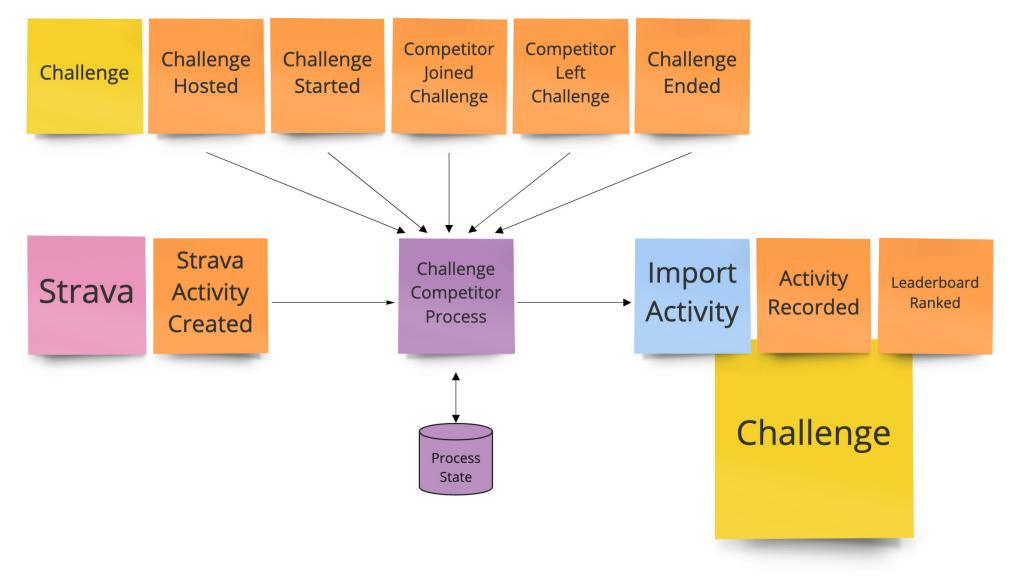




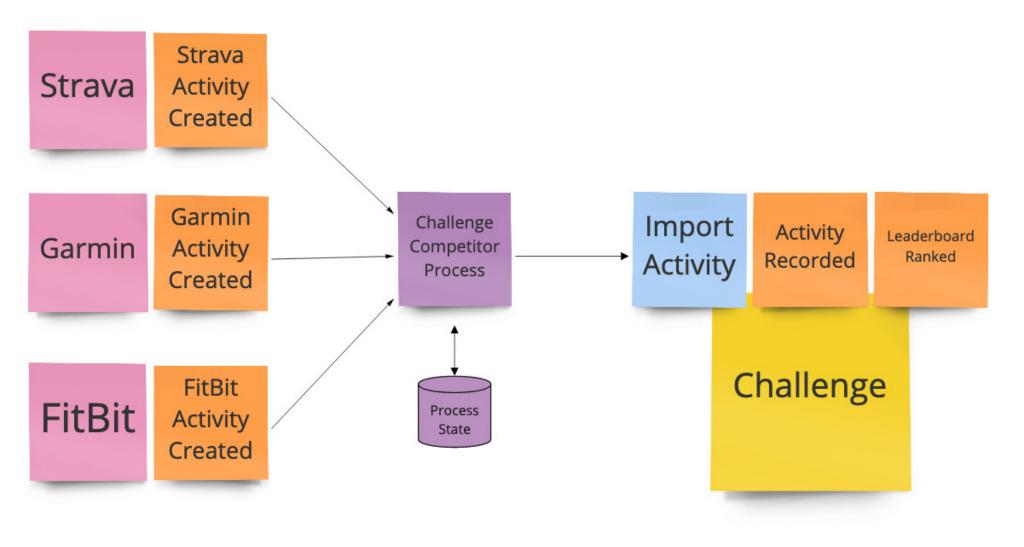
Dealing with external events







Extending third party providers



What Elixir tooling is available?

Awesome Elixir and CQRS 🛶 avesome

A curated list of awesome Elixir, Command Query Responsibility Segregation (CQRS), and event sourcing resources.

Contents

- Libraries
- Community resources
- Books
- Articles
- Presentations
- Screencasts
- Example applications

github.com/slashdotdash/awesome-elixir-cqrs

Commanded Commanded Use Commanded to build Elixir CQRS/ES applications O UK http://commanded.io/ Repositories 9 🝈 Teams 🔳 Projects Packages People 1 Settings commanded \equiv Ŀ eventstore \equiv commanded-ecto-projections \equiv Use Commanded to build Elixir CQRS/ES Event store using PostgreSQL for persistence Read model projections for Commanded using applications Ecto Elixir ★ 852 ¥ 109 Elixir ★ 519 ¥ 71 Elixir ★ 36 ¥ 18 commanded-swarm-registry commanded-scheduler commanded-audit-middleware \equiv \equiv \equiv Command auditing middleware for Commanded Distributed process registry using Swarm for Schedule one-off and recurring commands for CQRS/ES applications Commanded Commanded CQRS/ES applications ¥ 5 Elixir ★16 ¥7 🔵 Elixir 🛛 ★ 8 Ϋ́3 ***** 19 Elixir

O github.com/commanded

Want to learn more?

Building Conduit

- Applying CQRS/ES to an Elixir

and Phoenix web app

http://bit.ly/buildingconduitldn2019

Get in touch

- Email <u>ben@10consulting.com</u>
- Web <u>10consulting.com</u>

