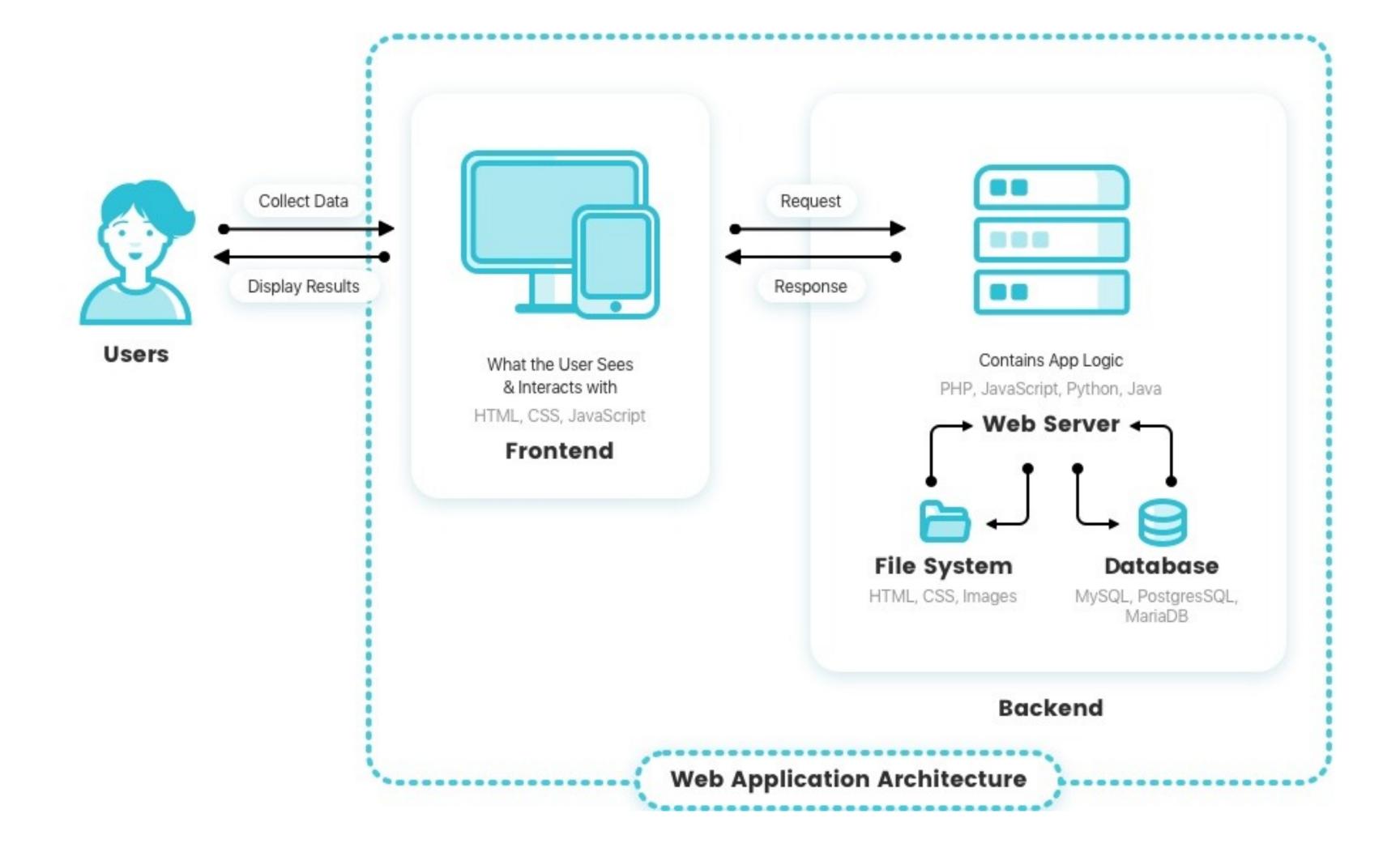
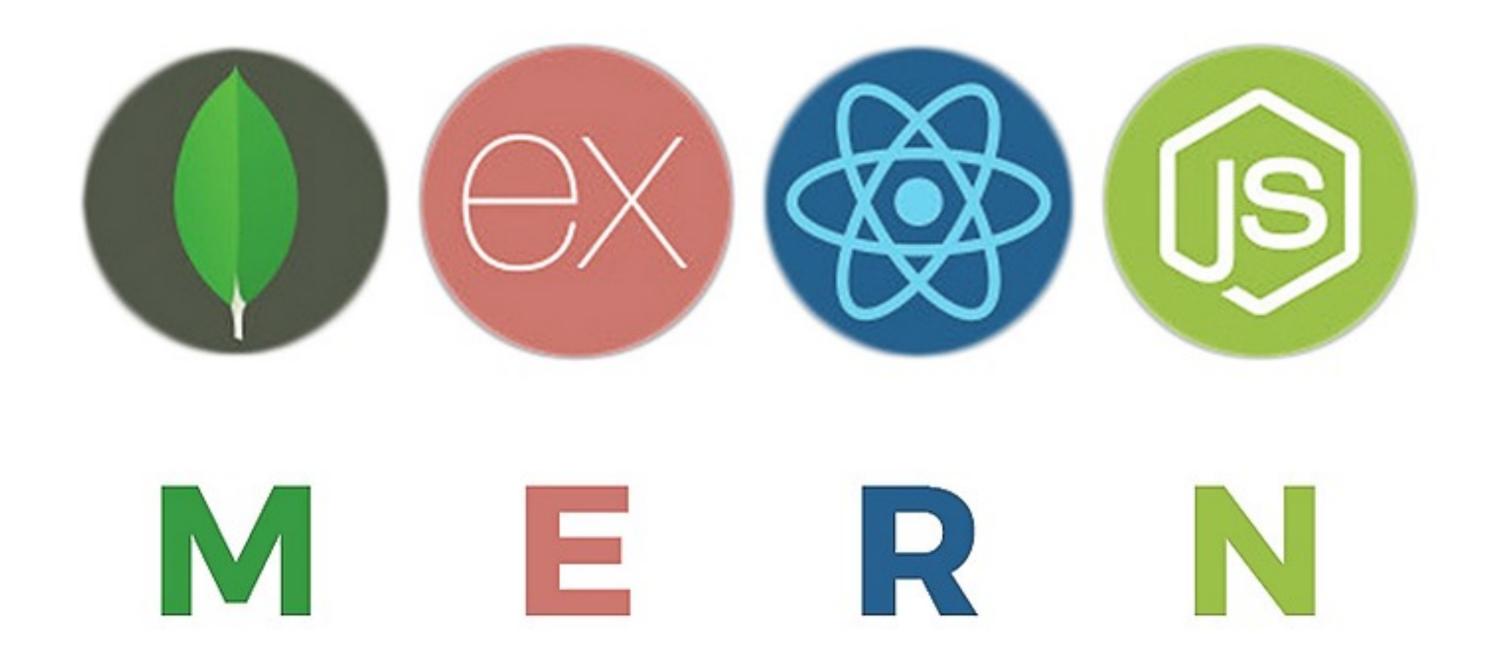
# Building the Web App

**A Summary** 

### Overview



- □ a Frontend Library
- □ a Runtime
- a Web Framework
- a Database



## Frontend Library/Framework

- Client-side JS libraries to simplify DOM interaction
- Go with what you know, o/w pick <u>React</u>







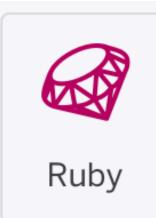




- √ a Frontend Library
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#### Runtime





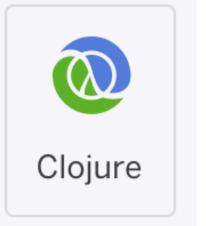












https://www.heroku.com/

- Language Implementation that executes code and is present at run-time
- Choose what you're comfortable with or what you're already using
- Heroku Docs



https://cloud.google.com/appengine

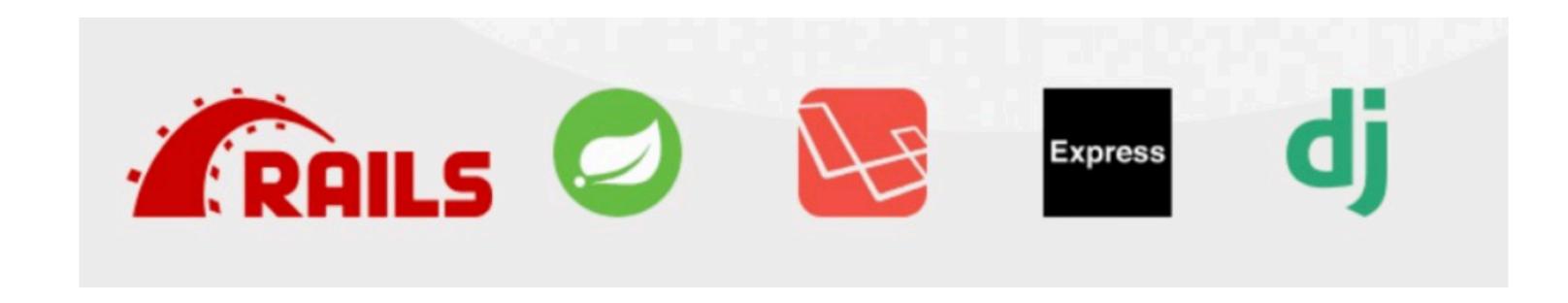
## Deployment

- Server Instance: EC2, GCE, DO Droplets
- Containers (Docker/K8S): EKS, GKE
- Web Platforms: Heroku, Beanstalk, AppEngine
- Serverless: Vercel (aka Zeit), Netlify

- √ a Frontend Library
- √ a Runtime
- □ a Web Framework
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#### Web Framework

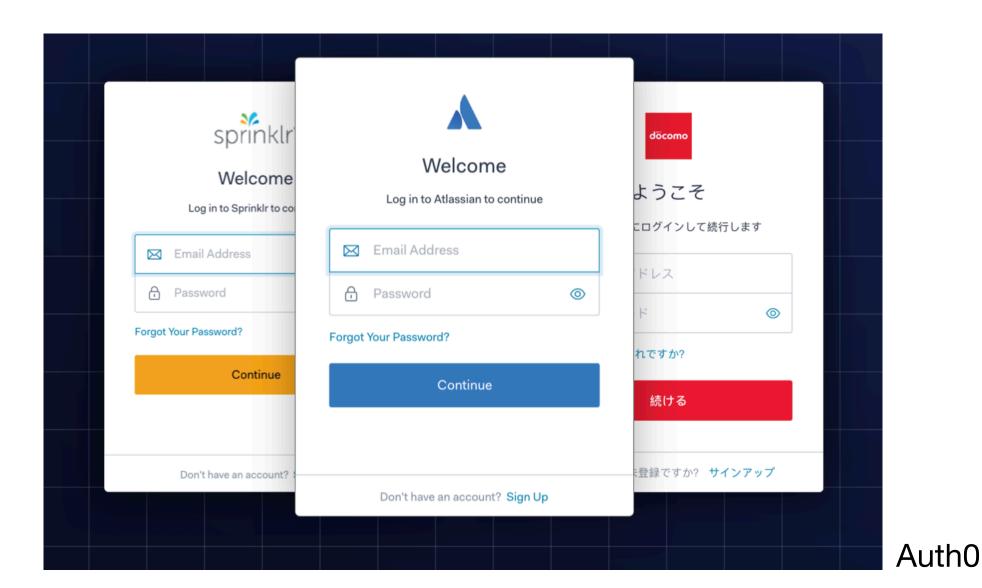
- Javascript: Express, NextJS
- Python: Flask, Django
- Ruby on Rails, Spring, etc.



- √ a Frontend Library
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# User Management

- Build it yourself
- Libraries defaults (Django Auth, PassportJS)
- 3rd Party (Firebase Auth, Auth0)



You are signed out.

Configuration

reCAPTCHA mode for Phone Auth: Normal Invisible Email signInMethod: Password Email Link

Sign In with Redirect Sign In with Popup

Single Page Application mode:

Sign in with Google

Sign in with Facebook

Sign in with Twitter

Sign in with GitHub

Sign in with email

Sign in with phone

Sign in with Microsoft

Sign in with Apple

Continue as guest

FirebaseUI Demo

https://firebase.google.com/docs/auth/web/firebaseui

By continuing, you are indicating that you accept our

Terms of Service and Privacy Policy.

#### Database

- NoSQL: <u>Firestore</u>, Mongo\*
- Relational: PostgreSQL
- Choose Document Stores\*\*



\*seems to have free credits for Covid

https://db-engines.com/en/ranking

\*\*unless you know you need RDBMS and/or know how to use it

- √ a Frontend Library
- √ a Runtime
- √ a Web Framework
- √ a Database

## Demo

- React, Node, NextJS, Mongo
- Deployed on Vercel
- Auth0 User Management