

Starting an Ember-Rails Application

Chad W. Zink

About me!

Software Developer & Department Manager at Wildland Labs (upstairs)

My Experience:

- 1) 15 years in Microsoft ASP & C# .Net, JavaScript, MS SQL Server
- 2) Only two Years Ruby on Rails, EmberJS, Postgresql

Graduated from CBC and WSU locally

About you!

Let's get some context for this group

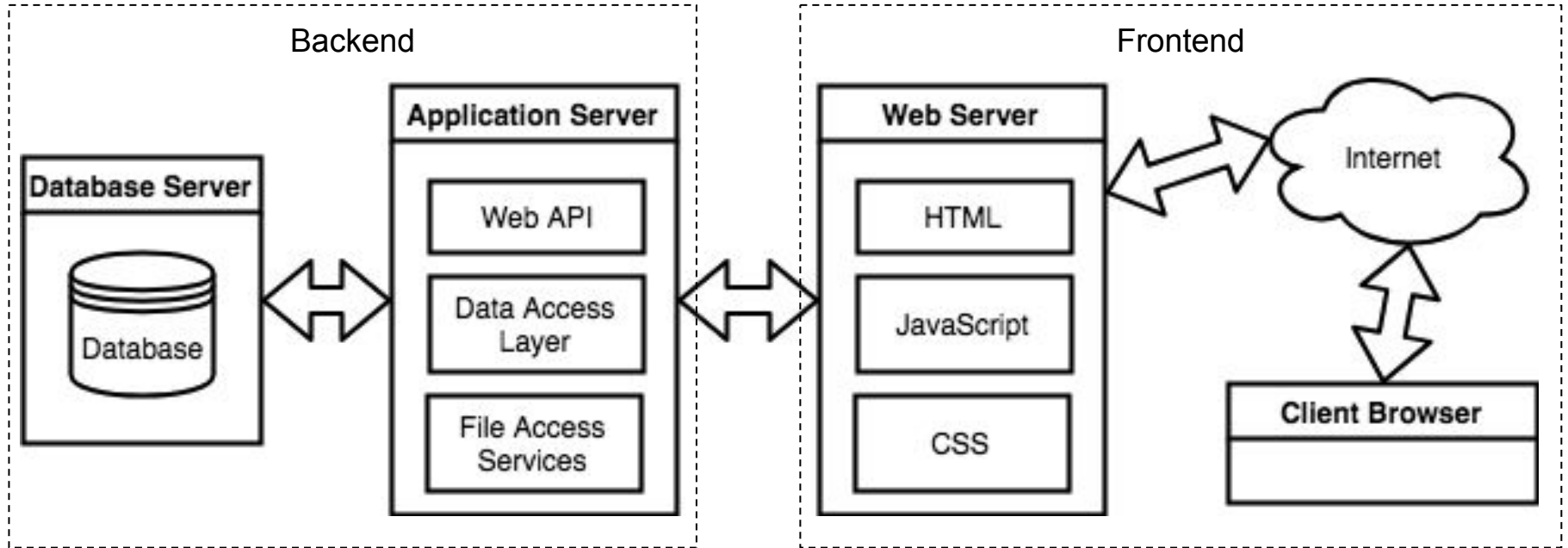
What is your name?

Your work or school?

Favorite Technology?

Thanks for sharing

The Basics of a Web Application



What you need to know

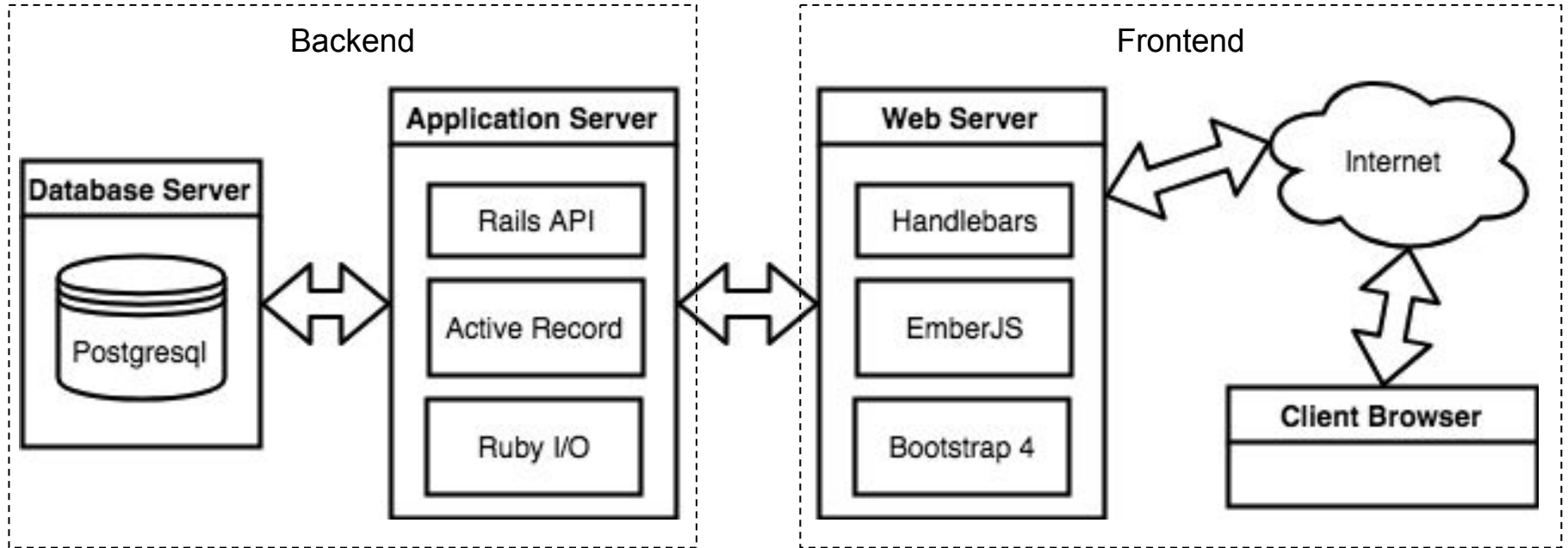
Backend

- 1) How to read & write Ruby (<https://www.ruby-lang.org/en/>)
- 2) Learn about the Rails conventions (<https://rubyonrails.org/>)
- 3) Understand RESTful API (<https://restfulapi.net/>)

Frontend

- 1) How to read/write JavaScript (<https://developer.mozilla.org/en-US/docs/Web/JavaScript>)
- 2) Use HandlebarsJS Syntax (<https://handlebarsjs.com/>)
- 3) Learn Ember conventions (<https://www.emberjs.com/>)

Basics Rails-Ember Application



Needed

- git (v2.13.x)
- ruby (v2.3.x)
 - bundler (v1.15.x)
 - rails (v4.2.x)
- node (v6.11.x)
 - npm (v5.2.x)
 - bower (v1.8.x) - maybe
 - ember-cli (v2.15.x)

Suggested

- rbenv (Ruby Version Manager)
- nvm (Node Version Manager)
- Postgresql 9.x
- For today's example...
OS X or Linux

Getting Started

1) Online Guides:

- a) <https://spin.atomicobject.com/2017/03/06/rails-ember-cli/>
- b) <http://joaomdmoura.com/articles/building-a-mobile-app-with-ember-cordova-rails>

2) Use the Wildland Repos

- a) Trailhead: <https://github.com/wildland/trailhead>
- b) Authentication
 - i) <https://github.com/wildland/ember-authenticate-me>
 - ii) https://github.com/wildland/token_authenticate_me
- c) API: https://github.com/wildland/api_me

Common Features

A general list of startup features to get a web application going

- Multiple Users
- Sign Up Process
- Login Process
- Data Access (Read/Write)
- Much more...

Create an app with Willand Trailhead

- 1) Open a console and change directory to the parent folder of your new app
- 2) Create ``.ruby-version`` file in the launch directory with version ``2.3.4`` specified
- 3) Use ``rbenv`` to verify, run ``rbenv local``
- 4) Use ``nvm`` to set node version to ``6.11.3`` run ``nvm use 6.11.3``
- 5) Check that Postgresql server is running
- 6) Run ``rails new sample_app -m``
`https://raw.githubusercontent.com/wildland/trailhead/master/template.rb`
`--database=postgresql --skip-spring --skip-turbolinks -J``

Backend Setup

- 1) Backend Auth: ``rails generate token_authenticate_me:install``
 - a) Work around remove extra entry from ``config/routes.rb``
- 2) Create a basic model:
``rails g api_me:resource test_model label:string max:integer min:integer``
- 3) Create and setup database: ``rake db:create db:migrate demo:seed``
 - a) Work around fix `config/routes.rb`

```
namespace :api do
  namespace :v1 do
    resources :test_models
  end
end
```

Setup Frontend

- 1) Open second terminal to `app-ember` folder
- 2) Update packages: `npm install` (see packages.json for package list)
- 3) Authentication: `ember install ember-authenticate-me`
- 4) Create model
`ember g model test_model label:string max:number min:number`
- 5) Start server: `npm start`
- 6) Browse to <http://localhost:4200/>



Congratulations, you made it!

You've officially spun up your very first Ember app :-)

You've got one more decision to make: what do you want to do next? We'd suggest one of the following to help you get going:

- **Quick Start** - a quick introduction to how Ember works. Learn about defining your first route, writing a UI component and deploying your application.
- **Ember Guides** - this is our more thorough, hands-on intro to Ember. Your crash course in Ember philosophy, background and some in-depth discussion of how things work (and why they work the way they do).

If you run into problems, you can check **Stack Overflow** or **our forums** for ideas and answers—someone's probably been through the same thing and already posted an answer. If not, you can post your **own** question. People love to help new Ember developers get started, and our **Ember Community** is incredibly supportive.

To remove this welcome message, remove the `{{welcome-page}}` component from your `application.hbs` file.

You'll see this page update soon after!

Replace Welcome with Data

1) Remove the `{{welcome}}` from ``app-ember/app/templates/application.hbs``

2) Add

```
{{#if session.currentUser}}
```

```
<p>User Name: [{{session.currentUser.username}}]</p>
```

```
<p>EMail: [{{session.currentUser.email}}]</p>
```

```
{{/if}}
```

Add File

`app-ember/app/routes/base-authenticated.js`

----- content -----

import AuthenticatedRoute from 'ember-authenticate-me/routes/authenticated';

export default AuthenticatedRoute;

----- content -----

Add Index Route

```
`app-ember/app/routes/index.js`
```

```
----- content -----
```

```
import Ember from 'ember';
```

```
import { task } from 'ember-concurrency';
```

```
import AuthenticatedRoute from './base-authenticated';
```

```
export default AuthenticatedRoute.extend({  
  session: Ember.inject.service('session'),  
});
```

```
----- content -----
```


Why Use This Stack?

Ruby on Rails with an Ember frontend:

- You can start a new app quickly
- Has very robust features
- Backed by a large open source community
- Scalable to enterprise level applications