Rails trainings

Advanced concepts

Part 1 **- Where to write logic**

Models

- Represent the data
- Interact with the database (postgreSQL)
- Check for validity of data
- Relations between models
- Validation
- Before filters
- Scopes
- Creator and updater

Controllers

- Find the correct view
- Check permissions
- Instance variables
- Concerns

API

- public API stored in `app/controllers/api/v1`
- private API stored in `app/controllers/api/`
- how to find endpoints

Decorators, helpers and cells

lib folder

extended modules for your application.

Service object pattern

`app/service` folder

Part 2 - Concepts

Environments

`RAILS_ENV=`

- production
- development
- test

When to use inheritance

- example with hubspot lib

Everyting is synchronous in Rails

Namespaces

Caching

low-level caching `Rails.cache` : `write`, `fetch`, `delete`, `clean`

Memoization

```ruby
def user
  @user ||= episode.user
end
```

Engine and middleware

- rack: interface for developing web applications
- `rails middleware`

Part 3 - tools

Migrations

- `rails generate migration AddColumnNameToModel column_name:string`
- `rails db:migrate`
- `rails db:rollback`
- change block
- reversible block
- `foreign_key: true` `null: false` `default: false`
- schema configured in `db/schema.rb`

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Routing

- configured in `config/routes.rb`
- namespaces and scopes
- constraints

```ruby
resources :networks, only: %i[index show create destroy]
```

Rake tasks

- stored in `lib/tasks`
- `rails g task namespace task_name`
- `rake -T`
- `one_off` folder
- used under the hood to run migration or tests

Log

- levels : debug, info, warn, error [fatal, unknown]
- `Rails.logger.info "Addon #{addon['id']} already exists. Skipping"`
- stored in `log/`
- Sentry

```ruby
begin
  # something is failing here
rescue SomeException => e
  ErrorTracker.exception(e)
end
```

Debugging

```
binding.pry
```

Asset pipeline

- Sprockets
- Webpack
- Why Rails uses both

```
// Sprockets
//= require jquery

// Webpack
import '../application.css'
```

ActionMailer

- `rails generate mailer UserMailer welcome_email`
- `app/views/layouts/email.html.haml`

ActionMailer::Preview

- mailer preview index
- app/mailer_previews/user_mailer_preview.rb

Sidekiq

- run jobs in the background
- `config/sidekiq_schedule.yml`
- how to debug a job ?
- web overview

Credentials

```
rails credentials:edit --environment development
```

Serializers

- filter attributes of models
- used for response from api

```
response 200 do
  key :description, 'listener deactivated'
  schema do
    key :'$ref', :Listener
  end
end
```

serializers/api/v1/listener_serializer.rb

Gems

- gems and bundler
- gemfile

Specs

- VCR (HTTP interactions)
- fixtures (test data)
- factory (initializer with default values)
- unit test vs feature test

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