

Relpay Core Functionality Guideline

Gems

- `gem 'sprockets-rails'` The original asset pipeline for Rails [<https://github.com/rails/sprockets-rails>].
- `gem 'jsbundling-rails'` Bundle and transpile JavaScript [<https://github.com/rails/jsbundling-rails>]. **(We use Esbuild)**
- `gem 'cssbundling-rails'` Bundle and process CSS [<https://github.com/rails/cssbundling-rails>]. **(We use Bootstrap)**
- `gem 'turbo-rails'` Hotwire's SPA-like page accelerator [<https://turbo.hotwired.dev>]
- `gem 'stimulus-rails'` Hotwire's modest JavaScript framework [<https://stimulus.hotwired.dev>]
- `gem 'axlsx_styler'`, `gem 'caxlsx'`, `gem 'caxlsx_rails'` Spreadsheet templates for Rails
- `gem 'bootstrap-email', '~> 1.1'` Bootstrap HTML Email templates
- `gem 'breadcrumbs_on_rails', '~> 4.1'` Creating and managing a breadcrumb navigation for a Rails project
- `gem 'devise', '~> 4.8'` Flexible authentication solution for Rails based on Warden
- `gem 'devise_invitable', '~> 2.0'` It adds support to Devise for sending invitations by email (it requires to be authenticated) and accept the invitation setting the password.
- `gem 'devise-two-factor', github: 'cybersecurity/devise-two-factor', branch: 'security-fixes-rails-7'` Extension to Devise which offers support for two-factor authentication, through the TOTP scheme.
- `gem 'faraday', '~> 2.2'` Faraday is an HTTP client library abstraction layer that provides a common interface over many adapters (such as Net::HTTP)
- `gem 'kaminari', '~> 1.2'` A Scope & Engine based, clean, powerful, customizable and sophisticated paginator for modern web app frameworks and ORMs
- `gem 'paper_trail', '~> 12.2'` Track changes to your models, for auditing or versioning.
- `gem 'pg_search', '~> 2.3'` PgSearch builds named scopes that take advantage of PostgreSQL's full text search.
- `gem 'pundit', '~> 2.2'` Robust and scalable authorization system
- `gem 'recaptcha', '~> 5.8'` Google Recaptcha
- `gem 'rqrcode', '~> 2.1'` Library for creating and rendering QR codes into various formats
- `gem 'sidekiq', '~> 6.4'`, `gem 'sidekiq-failures', '~> 1.0'`, `gem 'sidekiq-throttled', '~> 0.15.0'` Simple, efficient background processing for Ruby.
- `gem 'simple_form', '~> 5.1'` Rails forms made easy.

Note: These gems have a direct impact on how core features are implemented in Relpays codebase. Understanding why they are used and how in the codebase will be crucial for your efficient adoption and PR contributions to the codebase.

Key Concepts to Understand

- Rails MVC.
- Ruby classes, class methods, instance methods and private methods.
- Rails controller namespaces. (forexample see namespaces for user and admin devise models in the project) [<https://guides.rubyonrails.org/routing.html#controller-namespaces-and-routing>]
- Rails helpers. [<https://www.rubyguides.com/2020/01/rails-helpers/>]. `app/helpers`.
- Stimulus controllers. [<https://stimulus.hotwired.dev/handbook/introduction>]. `app/javascript/controllers`.
- Esbuild bundling entry files (`application.js`, `coreui.js`). `app/javascript`
- Rails Action Mailer. see mailers. `app/mailers`
- Pundit authorization policies. `app/policies`. [<https://github.com/varvet/pundit>]

- Service objects. `app/services` . [<https://blog.appsignal.com/2020/06/17/using-service-objects-in-ruby-on-rails.html>]
- Rails custom validators. `app/validators`
- Sidekiq workers. `app/workers`
- Rails scopes. [https://guides.rubyonrails.org/active_record_querying.html#scopes]
- Active record callbacks. [https://guides.rubyonrails.org/active_record_callbacks.html]
- Rails credentials. [<https://web-crunch.com/posts/the-complete-guide-to-ruby-on-rails-encrypted-credentials>]
- Pagination with kaminari gem.
- Rails asset pipeline. [https://guides.rubyonrails.org/asset_pipeline.html]
- Active record transactions. [<https://www.honeybadger.io/blog/database-transactions-rails-activerecord/>]
[<https://api.rubyonrails.org/classes/ActiveRecord/Transactions/ClassMethods.html>]