

Case study: Identifier(token) generator gem.

Rails App:

Create a basic rails application with the following Models: Company, Employee, PartnerCompany, Contractor and Client:

- Authentication;
- Simple UI with bootstrap
- CRUD for all models

Employees belong to a company and can have many clients. Contractors belong to a partner company and can work for the same clients as employees. Company has many contractors working for it's clients coming from PartnerCompany.

On the index page of corresponding models the following attributes should be displayed:

- Company: name, identity; employees, contractors and clients count. When clicking on the count, corresponding scoped index list will be displayed.
- Employee: :first_name, :last_name, :identifier, company name, clients count (with clickable link to clients index table)
- PartnerCompany: :name & :identity; contractors and clients count(same clickability to corresponding index)
- Contractor: :first_name, :last_name, it's partner company identifier, it's all clients and it's clients without overlap with employees
- Client: :first_name, :last_name, list of consultants(one client can be supervised by multiple employees from home company and contractors from partner company) and corresponding companies

Gem: write a gem and include it in the Gemfile of your rails application. Each persisted object defined below should have a token.

- Company: :identity ABCD:EFGH
- Employee: :identifier AB-GH-KL
- PartnerCompany: :identity P/ABCD (first "P" stays the same)
- Client: :ctoken AB-GH-KL

Rules:

- Token must be unique but only within a class scope(see Client and Employee)
- Token is randomly generated from capital letters of English alphabet of configured length with a configured delimiter for a configured attribute
- **Testing of the application is a must** (RSpec or MiniTest)
- Provide seed data of minimum 100 instances of each model for demo purposes

Do not forget about [Readme](#).

Please put your solution on GitHub or GitLab, deployment on Heroku is nice-to-have.