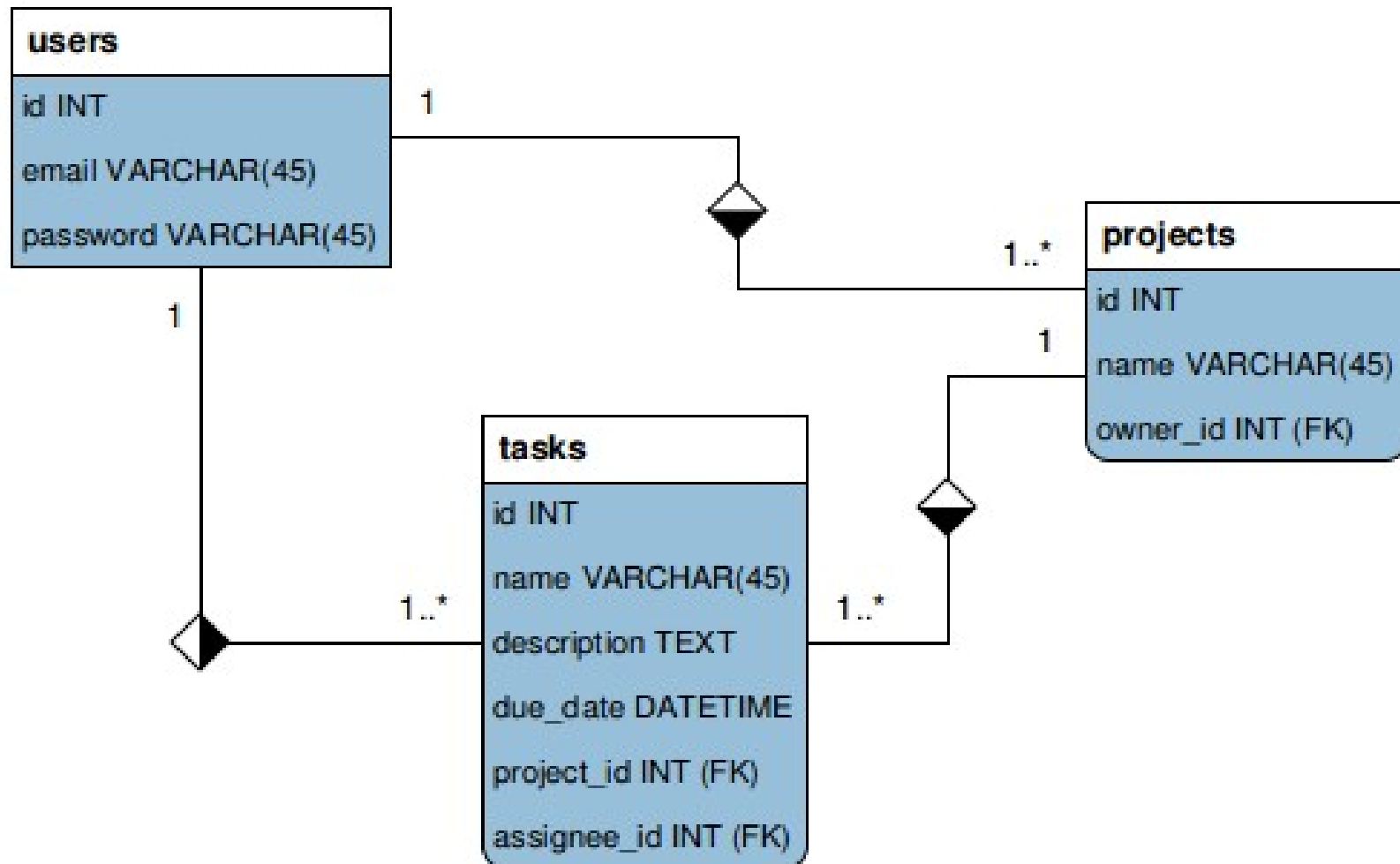


RoR



Create db schema

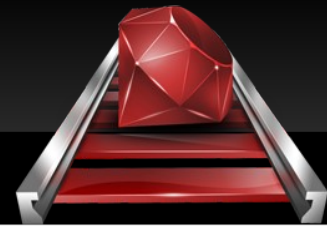


What gems should I use?



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Authentication

```
gem 'devise'
```

Authorization

```
gem 'cancancan', '~> 1.7'
```

Simple form:

```
gem 'simple_form'
```

Create users with devise



Run the generator

```
rails generate devise:install
```

Generate User model

```
rails generate devise User
```

Run created migration

```
rake db:migrate
```

Change user factory



```
FactoryGirl.define do
  factory :user do
    email { Faker::Internet.email }
    password { Faker::Internet.password }
  end
end
```

Testing factory



```
spec/models/user_spec.rb
```

```
describe User do
  it "has a valid factory" do
    expect(FactoryGirl.build(:user)).to be_valid
  end
end
```

```
-----
```

```
RAILS_ENV=test rake db:migrate
rspec spec/
```

Create projects



Create projects

Create projects



```
rails g model Project name:string owner:belongs_to
```

```
class Project < ActiveRecord::Base
  belongs_to :owner, class_name: User
end
```

```
class User < ActiveRecord::Base
  ...
  has_many :projects, foreign_key: :owner_id
end
```

Create projects



```
[1] pry(main)> FactoryGirl.create :user
```

```
=> #<User id: 1, email: "marques@erdman.com", ...>
```

```
[2] pry(main)> User.first.projects
```

```
User Load (2.1ms) SELECT "users".* FROM "users" ORDER BY "users"."id"  
ASC LIMIT 1
```

```
Project Load (1.8ms) SELECT "projects".* FROM "projects" WHERE  
"projects"."owner_id" = $1 [{"owner_id", 1}]  
=> []
```

```
[3] pry(main)> User.first.projects.create(name: 'hi')
```

```
=> #<Project id: 1, name: "hi", owner_id: 1, created_at: "2014-04-03 01:22:27",  
updated_at: "2014-04-03 01:22:27">
```

Create projects



```
[4] pry(main)> Project.first.owner
```

```
Project Load (1.4ms) SELECT "projects".* FROM "projects" ORDER BY  
"projects"."id" ASC LIMIT 1
```

```
User Load (1.9ms) SELECT "users".* FROM "users" WHERE "users"."id" = $1  
LIMIT 1 [["id", 1]]
```

```
=> #<User id: 1, email: "marques@erdman.com",...
```

```
[5] pry(main)> User.first.projects
```

```
User Load (1.3ms) SELECT "users".* FROM "users" ORDER BY "users"."id"  
ASC LIMIT 1
```

```
Project Load (0.7ms) SELECT "projects".* FROM "projects" WHERE  
"projects"."owner_id" = $1 [["owner_id", 1]]
```

```
=> [#<Project id: 1, name: "hi", owner_id: 1, created_at: "2014-04-03 01:22:27",  
updated_at: "2014-04-03 01:22:27">]>
```

Create project factory



```
FactoryGirl.define do
  factory :project do
    name { Faker::Lorem.characters(rand(4..30)) }
    association :owner, factory: :user
  end
end
```

Add tests



```
spec/models/project_spec.rb
```

```
describe Project do
  it "has a valid factory" do
    expect(FactoryGirl.build(:project)).to be_valid
  end

  it { is_expected belong_to(:owner).class_name(User) }
end
```

Add tests



spec/models/user_spec.rb

```
describe User do
  it "has a valid factory" do
    expect(FactoryGirl.build(:user)).to be_valid
  end
  it { is_expected.to have_many(:projects).
    with_foreign_key('owner_id') }
end
```

Create tasks



Create tasks

Create tasks



```
rails g model Task assignee:references project:belongs_to  
      due_date:datetime name:string description:text
```

```
class CreateTasks < ActiveRecord::Migration  
  def change  
    create_table :tasks do |t|  
      t.references :assignee, index: true  
      t.belongs_to :project, index: true  
      t.datetime :due_date  
      t.string :name  
      t.text :description  
      t.timestamps  
    end  
  end  
end
```


Create tasks



```
class Project < ActiveRecord::Base
  has_many :tasks
end
```

```
class User < ActiveRecord::Base
  has_many :tasks, foreign_key: :assignee_id
end
```

```
class Task < ActiveRecord::Base
  belongs_to :project
  belongs_to :assignee, class_name: User
end
```

Create task factory



```
FactoryGirl.define do
  factory :task do
    association :assignee, factory: :user
    association :project
    due_date { 2.hours.from_now }
    name { Faker::Lorem.words(3).join(' ') }
    description { Faker::Lorem.paragraph }
  end
end
```