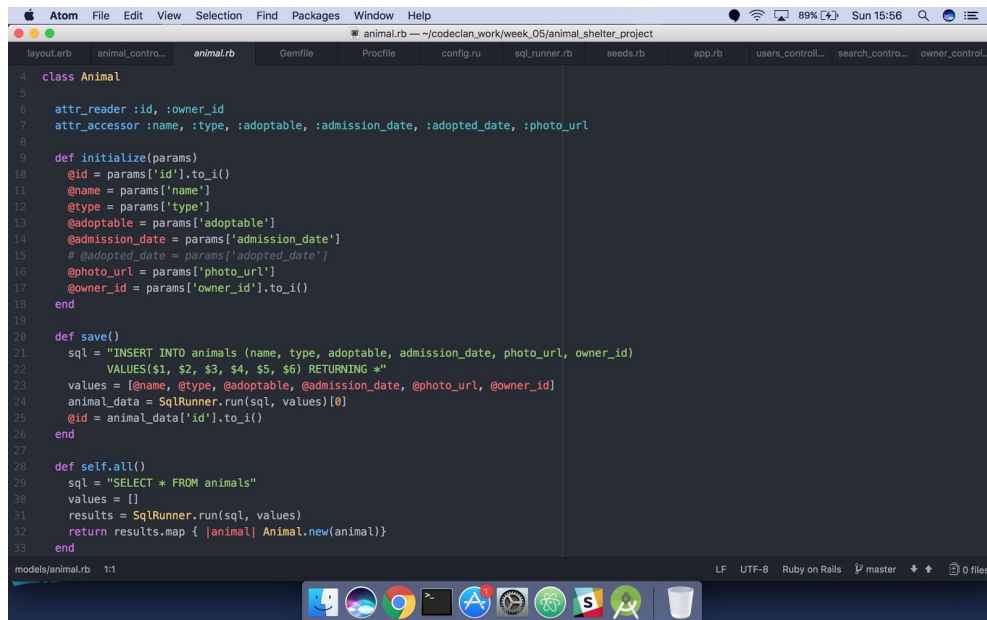


Evidence for project unit I & T

Rob Williams - Cohort E16

Week 2 - Reference I.T 5

Demonstrate the use of an array in a program - below array contains values for the SQL query. The save method uses this array to generate the full SQL query and write to the database via the SQL runner file.



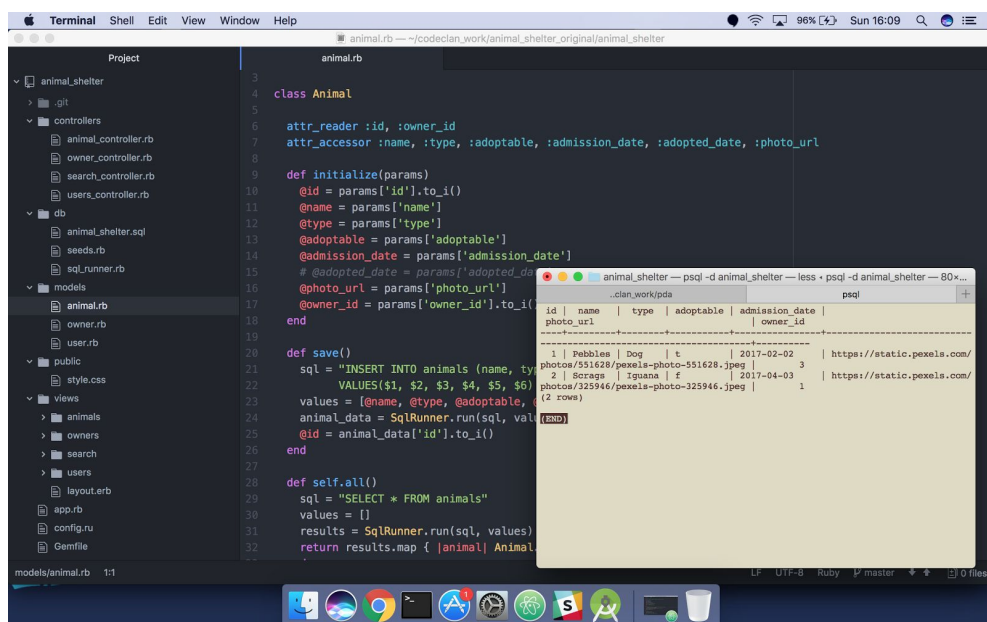
```
class Animal
  attr_reader :id, :owner_id
  attr_accessor :name, :type, :adoptable, :admission_date, :adopted_date, :photo_url

  def initialize(params)
    @id = params['id'].to_i()
    @name = params['name']
    @type = params['type']
    @adoptable = params['adoptable']
    @admission_date = params['admission_date']
    # @adopted_date = params['adopted_date']
    @photo_url = params['photo_url']
    @owner_id = params['owner_id'].to_i()
  end

  def save()
    sql = "INSERT INTO animals (name, type, adoptable, admission_date, photo_url, owner_id)
    VALUES($1, $2, $3, $4, $5, $6) RETURNING *"
    values = [@name, @type, @adoptable, @admission_date, @photo_url, @owner_id]
    animal_data = SqlRunner.run(sql, values)[0]
    @id = animal_data['id'].to_i()
  end

  def self.all()
    sql = "SELECT * FROM animals"
    values = []
    results = SqlRunner.run(sql, values)
    return results.map { |animal| Animal.new(animal)}
  end
end
```

Below is the table run in psql showing animals saved to the database referencing the save function in the seeds file.

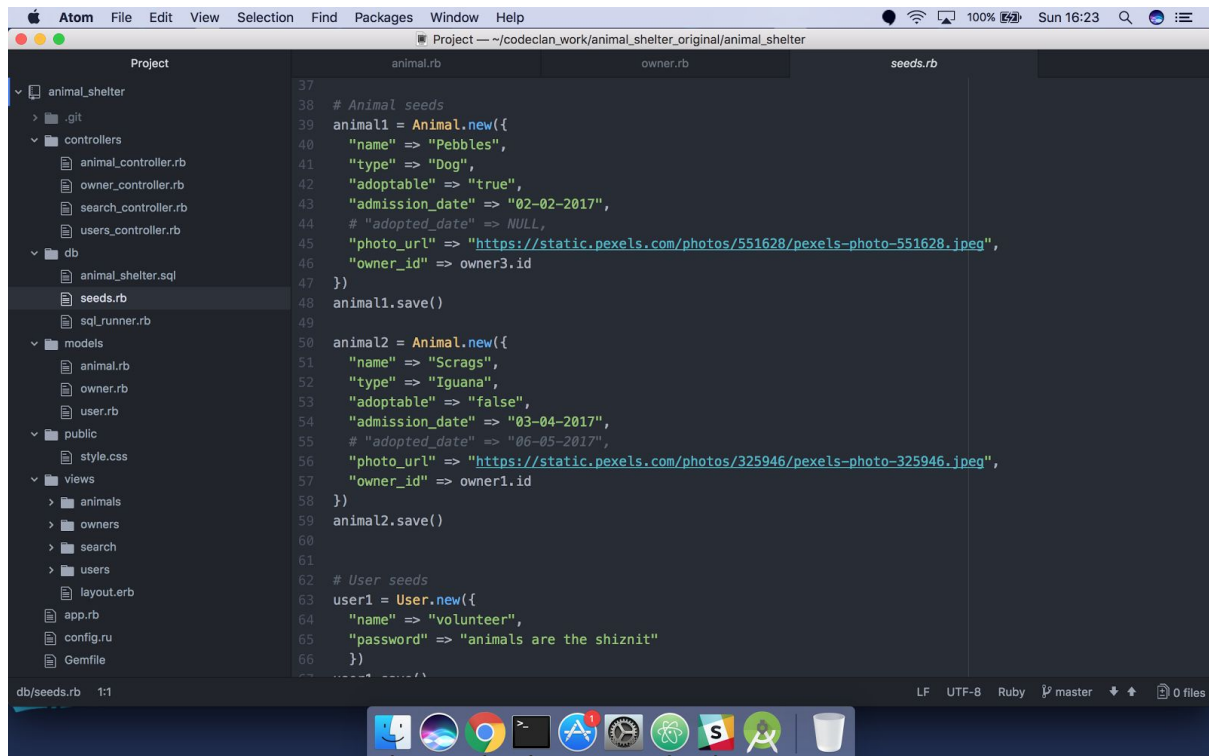


```
psql
psql> \d animals
Table "animals"
Column | name | type | adoptable | admission_date | owner_id |
-----+-----+-----+-----+-----+-----+
id      |      | int4  |           |                |          |
name    |      | text  |           |                |          |
type    |      | text  |           |                |          |
adoptable |      | bool  |           |                |          |
admission_date |      | text  |           |                |          |
photo_url |      | text  |           |                |          |
(6 rows)

psql> \c
psql> \d animals
Table "animals"
Column | name | type | adoptable | admission_date | owner_id |
-----+-----+-----+-----+-----+
id      |      | int4  |           |                |          |
name    |      | text  |           |                |          |
type    |      | text  |           |                |          |
adoptable |      | bool  |           |                |          |
admission_date |      | text  |           |                |          |
photo_url |      | text  |           |                |          |
(6 rows)
```

Week 2 - Reference I.T 6

Demonstrate the use of a hash in a program - The seeds file below is entering the information via a hash. It shows the information being generated before being passed to the save method of the animal model (second screenshot). The result is as per the above screenshot showing the populated database.



```
def save()
  sql = "INSERT INTO animals (name, type, adoptable, admission_date, photo_url, owner_id)
        VALUES($1, $2, $3, $4, $5, $6) RETURNING *"
  values = [@name, @type, @adoptable, @admission_date, @photo_url, @owner_id]
  animal_data = SqlRunner.run(sql, values)[0]
  @id = animal_data['id'].to_i()
end
```