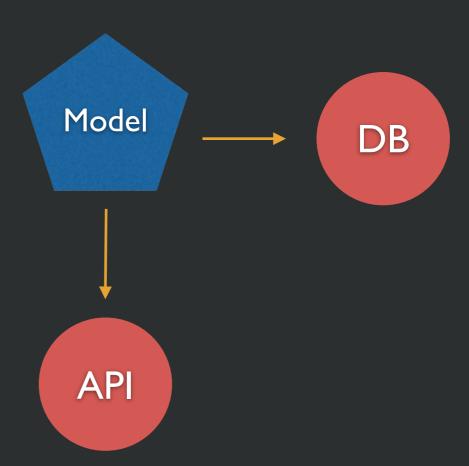


Model Validations

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MVC: Models



- I. Deal with data
- 2. Implement business logic rules



Deal with data

- Create, Read, Update, Delete (CRUD) from
 - Database
 - API
 - Filesystem
- Ensure data format is valid
 - Implement validations
 - i.e. length of a name is shorter than 50 chars



Business Logic Rules

Calculate the letter of the Spanish ID (NIF)

Calculate the VAT of a shopping cart

Generate reports

Single responsibility principle: an object should have only a single responsibility



Logic rules that ensure the data has proper format and consistency



Format validations

a valid email address

a web domain

a product price

a time object



Consistency validations

a visit should belong to a location

a visit should occur in the future



Model: Visit

Location

- name
- city
- ...

Visit

N

- location_id
- user_name
- from_date
- to_date





```
class Location < ActiveRecord::Base</pre>
   has many :visits
   validates :name, presence: true
 end
> location = Location.new
=> #<Location id: nil, name: nil ...
> location.valid?
=> false
> location.name = "Home"
> location.valid?
=> true
```

IRON HACK

```
class Location < ActiveRecord::Base
has_many :visits

validates :name, presence: true
end

attribute(s) type of validation</pre>
```



```
validates :attribute, presence: true
```

Validates the presence of an attribute



validates :attribute, uniqueness: true

Validates the value of an attribute is unique



```
validates :attribute, length: {minimum: 3}
validates :attribute, length: {maximum: 10}
validates :attribute, length: {in: 1..100}
validates :attribute, length: {is: 42}
```

Validates the length of an attribute



```
validates :attribute, format: {with: /\A[0-9]/}
```

Validates the format of an attribute with a regular expression



```
validates :attribute, inclusion: { in: ['value 1',
'value 2', 'value 3']}
```

Validates the value of an attribute to be in a closed list of values



```
validates :attribute, exclusion: { in: ['value 1',
'value 2', 'value 3']}
```

Validates the value of an attribute to not be in a closed list of values



```
validates :attribute, numericality: true
```

Validates the value of an attribute to be a number



Exercise #25

Add the following validations to the model Location:

- I. validate presence of name
- 2. validate presence of city
- 3. validate length of name to be a maximum of 30 characters



Exercise #25b

Fix existing seeds



Exercise #26

Add the following validations to the model Visit:

- I. from date and to date presence
- 2. validate presence of user_name
- 3. validate it's associated to a location



Exercise #26b

Fix existing seeds

