

### BEWD - Forms & Validations

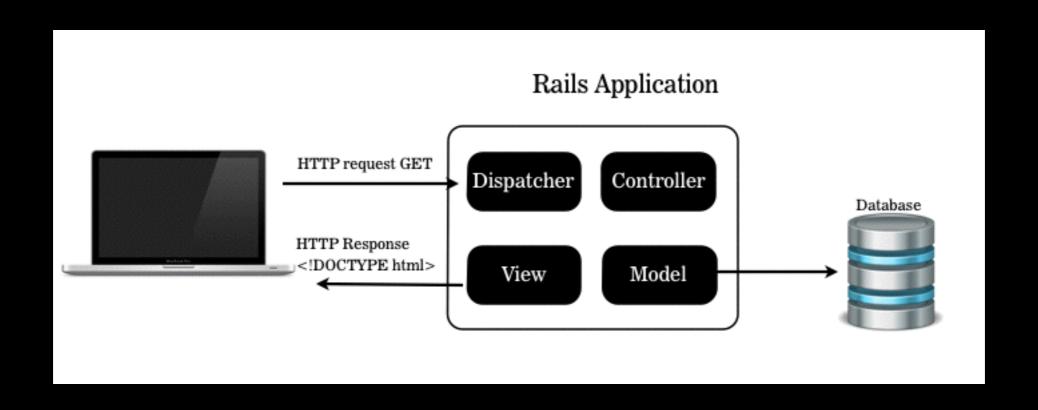
Bill Patrianakos / Week 5 Lesson 2

### Agenda

- Review
- Forms
  - Search Forms, Create Forms, Partials
- Validations
- Lab Time

### Review

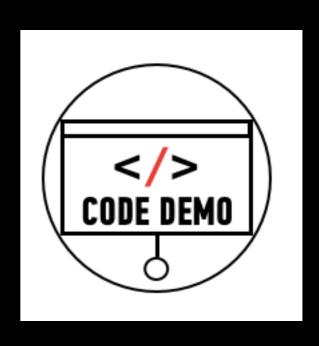
### Routes, Model, View, Controller



### Shirt Management App

#### Review

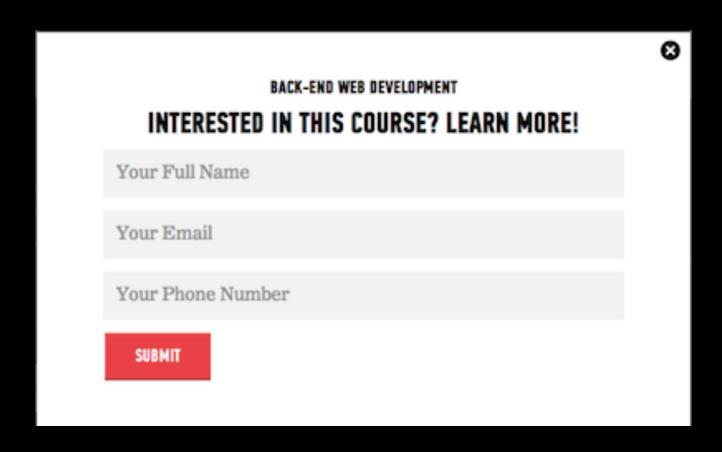
Add controller and view to Shirts App



### Forms

### Adding Forms to Views

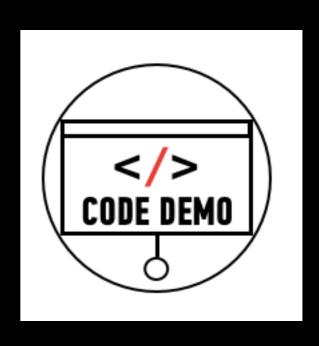
Used to 'GET' user input



### Shirt Management App

#### Search Form

 As a user I want to be able to search for a specific T-Shirt in my collection.



#### Search Forms

When a user clicks 'Search'

- 1. Goes to the Shirts controller index action.
- 2. Sends the query as a querystring parameter (params[:q])
- 3. Filters results by the query
- 4. Searches shirts by name or description fields

#### **Partials**

- File name starts with an underscore
- Inserted into page using the "render" keyword
- Have access to instance variables
- Forms are great candidates for partials
- Rails magically handles the methods for us if we use model objects

#### Queries

Search database with the keywords "where" & "LIKE"

where('name LIKE :query OR description LIKE :query', query: "%#{query}%")

Searches the Shirt table's name and description fields.

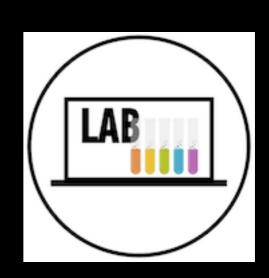
#### Refactor

- Changing the structure of your code without changing behavior
- Move all complex data queries to the model

### Movie App

#### Search

 Create a search box that will search for a term in the movie's title, description and the year



- Create partials for the search box
- Move all complex data queries to the model

### Forms

### Adding to Database

 We saw how a user can search the database with a form, but how does a user add to the database using forms.

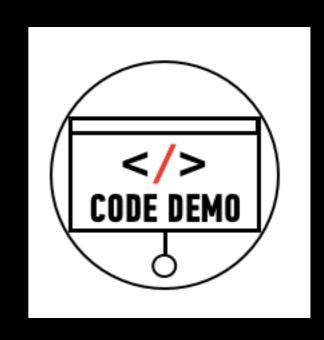
### cut it out.

### Shirt Management App

#### **Create & Edit Forms**

As a user I want to add shirts to the database.

As a user I want to edit shirts.



### **REST**

REpresentational State Transfer

#### REST

- :resources in the routes file gives us LOTS (7) of routes
- Perfect for managing "Resources" (Things in your domain, like Shirts and Movies)

#### Form Builders

- Form Builders are awesome
- You MUST create an empty object in the controller for the magic to work

```
<%= form_for @shirt do Ifl %> <% end %>
```

#### **Strong Parameters**

- Rails Controllers require you to whitelist which fields a form can send
- Used to protect from nasty attacks. Github got bitten by one a while back.

#### **Validation**

- Ensures that we are saving accurate information in the database.
  - If our validation fails, don't add record to the database table

\* If our validation fails let the user know it failed.

#### Private Methods

Not routable, or callable from the outside world

#### Flash

- Used to send messages to the user
- Good for letting them know something succeeded
- Use flash[:notice] and flash[:error]
- Put checks in the layout to always show messages

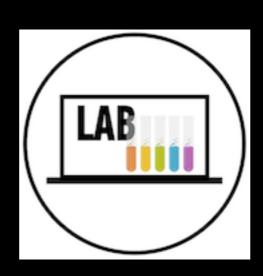
### Homework

#### Flash

Movies app due (Lesson 11)

Let's start now.

# Movie App



# Resources: Forms & Validation CHEAT SHEET

#### Reload Code in Console

Reloads freshest code in the console

reload!

#### **Validations**

#### Validate Presence

 Validates that title, description and year\_released, rating are not empty.

validates :name, :description, presence:true

#### Validate Length

Validates that all descriptions are a minimum of 10 characters.

validates :description, length: { minimum: 10 }

### **Numericality**

```
validates :year_released, numericality:
    { only_integer: true }
validates :rating, numericality:
    { greater_than_or_equal_to: 1,
    less_than_or_equal_to: 5, only_integer: true }
```

#### Checks if a record is valid

movie.valid?

#### Show current errors in an object

 Shows all of the current errors on an object

movie.errors

## Resources: Forms & Validation

#### CHEAT SHEET

#### **Strong Parameters**

```
def create
  shirt_params = params.require(:shirt).permit(:name, :description, :image)
  shirt = Shirt.create(shirt_params)
  redirect_to shirt
end
```

#### **Private Methods**

Not routable, or callable from the outside world

```
class MyClass
def call_me
    puts "Called"
end
private
def maybe
puts "Forever Alone"
end
end
```

### Still Feel Lost?

This course focus was on forms. You should have a general understanding of form builders and what happens when using a search form. Next lesson you will continue to practice Forms, Models, Views, Controller and Routes.

### Catch Up With These Resources

- Form Tags about the different tags here and here
- Form Helpers