

Web Development with Ruby on Rails

Unit 5: Building HTML with Views

Midterm

- Take home
- 10 free answer questions
- Available 10/24
- Due 10/31 (1 week)

Basic views

app/views/layouts/application.html.erb

```
<html><body>  
  <%= yield %>  
</body></html>
```

app/views/purchases/index.html.erb

```
<ul>
  <% @pledges.each do |pledge| %>
    <li><%= pledge.description %>
  <% end %>
</ul>
<%= link_to 'New Pledge',
           new_pledge_path %>
```

- $\langle \% = \dots \% \rangle$ for output
- $\langle \% \dots \% \rangle$ for no output

Path helpers

- See `rake routes`
- Add either `_path` for just `/pledges`
- or `_url` for `http://.../pledges`

Views with forms

app/views/pledges/_form.html.erb

```
<%= form_for(@pledge) do |f| %>
  <%= f.label :issue_title %><br />
  <%= f.text_field :issue_title %>
<% end %>
```

- Passing an object helps determine the URL and method
- Also the `f` object will validate fields
- And fills in the value if the object has one

form_for Pledge.new
=> *POST /pledges*

form_for Pledge.find(7)
=> *PUT /pledges/7*

```
f.text_field :amount  
# => <input type="text"  
#     ... name="pledge[amount]" />
```

```
f.text_field :color  
# => undefined method `color' for  
#     #<pledge:0x007febd6a5f658>
```

Lots of field types

http://guides.rubyonrails.org/form_helpers.html

- label
- text_field
- check_box
- collection_select
- and more!

Listing pledges

Issue url	Issue title	Amount	User
https://github.com/carlhuda/bundler/issues/2113	accessing CLI from Ruby 3.5	#	<User:0x007fb0cc219a10> S

[New Pledge](#)

Fail



app/views/pledges/index.html.erb

`<td><%= pledge.user %></td>`

`<td><%= pledge.user.name %></td>`

Listing pledges

Issue url	Issue title	Amount	User	
https://github.com/carlhuda/bundler/issues/2113	accessing CLI from Ruby 3.5		Mat	Show Edit Destroy

[New Pledge](#)

Win!



New pledge

Issue url

Issue title

Amount

User

Create Pledge

[Back](#)



boo :(

Dropboxes

- a few view helpers
- `collection_select` is usually easiest

```
f.collection_select :some_field,  
                    @an_array,  
                    :value_method,  
                    :label_method
```

```
<select name="model[some_field]">
  <% @an_array.each do |item| %>
    <option value="<%= item.value_method %>">
      <%= item.label_method %>
    </option>
  <% end %>
</select>
```

Let's try it

app/views/pledges/_form.html.erb

```
f.collection_select :user, User.all,  
                   :id, :name
```

New pledge

Issue url

Issue title

Amount

Mat ↕



Yay!!

Create Pledge

[Back](#)

Boo ... part two :(

Can't mass-assign protected attributes

Mass-assignment security

app/models/pledge.rb

```
class Pledge < ActiveRecord::Base
  belongs_to :user
  # Add :user to this guy
  attr_accessible :amount, :issue_title,
                  :issue_url
end
```

Boo.. Part 3

User(#...) expected, got String(#...)

Why?

- A form lives in HTTP-land
- HTTP only knows about strings and numbers

(url encoded formatting)

amount=2.50&issue_title=a+bug

Fix it!

app/views/pledges/_form.html.erb

```
f.collection_select :user_id, User.all  
                   :id, :name
```

app/models/pledge.rb

```
attr_accessible ..., :user_id
```

Some styling

The asset pipeline

- Stuff lives in app/assets
- Accessed via /assets
- Allows for some cool pre-processing tricks

app/assets/stylesheets/application.css

```
/*  
*= require_self  
*= require_tree .  
*/
```

- throw some css framework in that dir
- automatically required!
- Might need some images
- Fix image paths if needed

Now style the form

- <http://twitter.github.com/bootstrap/>
- (remove app/assets/stylesheets/scaffolds.css.scss)

Fix form

app/views/pledges/_form.html.erb

```
form_for(@pledge,  
  html: {  
    class: "form-horizontal"  
  })
```

Fix fields

```
<div class="control-group">  
  <%= f.label :issue_url,  
            class: 'control-label' %>  
  <div class="controls">  
    <%= f.text_field :issue_url %>  
  </div>  
</div>
```

Fix buttons

app/views/pledges/_form.html.erb

```
<div class="form-actions">  
  <%= f.submit class: "btn btn-primary"  
</div>
```

Give it some margin

```
<div class="container">  
  <%= yield %>  
</div>
```

Editing pledge

Tasty!

Issue url

Issue title

Amount

User

Update Pledge

Easier user creation

- Add a `link_to new_user_path`
- Fix up the user form the same way
- Can also make the link a button

Next Topic: Testing and
Validations

Homework:

Extended forms and styling

