How To Use Bootstrap Inside Rails App

Before We Start

I expect you to:

- 1. Already have Rails installed (no more installations today)
- 2. Bring your past Idea project gles
- 3. Already have ideas inside the app

If you don't bring your past app les, download and follow the instructions here.

Let's Start

- 1. cd into the past project folder. Example: cd railsgirls
- 2. Run rails server
- 3. Open the browser and type http://localhost:3000

So right now, our idea app looks more or less like this:

New Idea

Listing Ideas Name Description Picture Hang An In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess o Show Edit Destroy preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet. Curtain Cover A Wall Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering Show Edit Destroy With Plates the whole wall with plates has the same effect as "one big piece of art." Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to Mix-and-Show Edit Destroy match Chairs create a more casual atmosphere in the dining room.

And, the single view of the idea looks like this:

Name: Hang An Interior Curtain

Description: In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.



Edit | Back

What's Missing Here?

Well, this app works $_{_{\rm e}}$ ne. But it lacks something in terms of design. It's not beautiful.

It looks like 90's website, right?

What We're Going To Create Today?

So today, we're going to make this app looks more nicer and neat. At the end of this tutorial, your ideas index page will looks something like this:

Ideas App Ideas About

Listing Ideas

New Idea		
Name	Description	Picture
Hang An Interior Curtain	In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.	Show Edit Destroy
Cover A Wall With Plates	Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering the whole wall with plates has the same effect as "one big piece of art."	Show Edit Destroy
Mix-and- match Chairs	Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to create a more casual atmosphere in the dining room.	Show Edit Destroy

...and your single idea page will looks something like this:



Hang An Interior Curtain

In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.



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Notes

At the end of every section, I include a link to Github (*File changes at this stage*) where you can see which lines was removed and which lines was added.

- Red lines = removed (old lines).
- Green lines = added (new lines).

Step #0 - If You Already Have Bootstrap and Top Navigation Bar

If you already installed Bootstrap gem and add top navigation bar during previous class, you can skip to Step #3 - Update Ideas Index Page Table.

Step #1 - Install Bootstrap Gem

```
Now, open your Gemfile and add this line below gem 'carrierwave':

gem 'bootstrap-sass', '~> 3.3', '>= 3.3.6'

Save it.

Now, open app/assets/stylesheets/ folder and rename the application.css to application.scss (note the s before the css).

Open the application.scss ele and remove these lines:

*= require_tree .

*= require_self
```

Now, add these lines below the last star and forward slash (*/):

```
@import "bootstrap-sprockets";
@import "bootstrap";
```

Save it.

Next, let's open app/assets/javascripts/application.js ele and add //= require bootstrap-sprockets below the //= require jquery line like this:

```
//= require jquery
//= require bootstrap-sprockets
```

And, save it.

Now, open your Terminal and run bundle install command.

Then, restart your server by pressing ctrl + c and run rails server command again.

Now, you'll see a minor change in our app like this:

Listing Ideas

Name Description

Hang An In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation, Interior Curtain Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.

Cover A Wall Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering the whole With Plates wall with plates has the same effect as "one big piece of art."

Mix-and- Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to create a more match Chairs casual atmosphere in the dining room.

on, "

howEditDestrov

ShowEditDestroy

owEditDestroy

New Idea

Did you notice the text has been changed and no more underlines below the links?

File changes at this stage

Step #2 - Update The Top Navigation Bar

Let's open app/views/layouts/application.html.erb le and locate this line:

```
<%= yield %> .
```

Now, let's add Bootstrap code before and after the line like this:

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

Next, let's add this block of code right after the <body> tag:

```
<nav class="navbar navbar-default">
 <div class="container-fluid">
   <div class="navbar-header">
     <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"</pre>
data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
       <span class="sr-only">Toggle navigation</span>
       <span class="icon-bar"></span>
       <span class="icon-bar"></span>
       <span class="icon-bar"></span>
     </button>
     <a class="navbar-brand" href="/">Ideas App</a>
   </div>
   <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
     <a href="/ideas">Ideas</a>
       <a href="/pages/about">About</a>
     </div>
 </div>
</nav>
```

And let's add this block of code below the <div class="container"> block :

```
<footer>
    <div class="container">
        Rails Girls 2016
    </div>
    </footer>
```

Save the le and refresh your project inside the browser.

You'll see this:

Listing Ideas

Name Description

Hang An Interior Curtain

In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.

Cover A Wall Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. With Plates Covering the whole wall with plates has the same effect as "one big piece of art."

Mix-and- Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did match Chairs this to create a more casual atmosphere in the dining room.



Congratulations, now you've top navigation bar!

File changes at this stage

Step #3 - Update Ideas Index Page Table

Now, let's open $[app/views/ideas/index.html.erb]_e$ le and locate the [] tag.

We're going to apply Bootstrap table CSS into this table.

To do that, replace it with . Refresh your browser and you'll see this:

Listing Ideas

Name	Description	Picture			
Hang An Interior Curtain	In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.	A	Show	Edit	Destroy
Cover A Wall With Plates	Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering the whole wall with plates has the same effect as "one big piece of art."		Show	Edit	Destroy
Mix-and- match Chairs	Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to create a more casual atmosphere in the dining room.		Show	Edit	Destroy

Looks better right?

Now, let's add something extra. Instead of , let's replace it with .

Now, you'll see striped rows table inside your browser like this:

Ideas App Ideas About

Listing Ideas

Name	Description	Picture			
Hang An Interior Curtain	In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.	A	Show	Edit	Destroy
Cover A Wall With Plates	Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering the whole wall with plates has the same effect as "one big piece of art."		Show	Edit	Destroy
Mix-and- match Chairs	Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to create a more casual atmosphere in the dining room.		Show	Edit	Destro

Step #4 - Update Links To Buttons Inside The Table

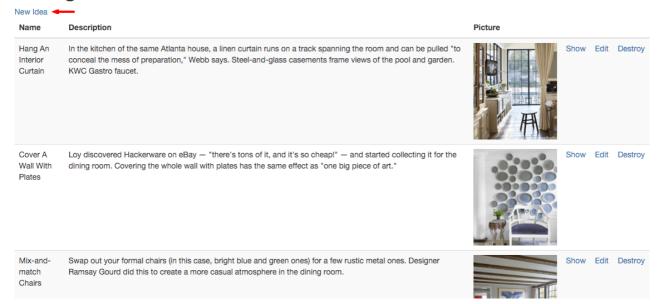
Let's start by moving the New Idea link at the bottom to the top of the page, below the Listing Ideas heading like this:

```
<h1>Listing Ideas</h1>
<%= link_to 'New Idea', new_idea_path %>
```

You'll see it like this:

Ideas App Ideas About

Listing Ideas



Now, let's add Bootstrap CSS class to make this New Idea link looks better.

Add class: 'btn btn-primary' inside the New Idea link_to tag like this:

<%= link_to 'New Idea', new_idea_path, class: 'btn btn-primary' %>

You'll see it like this:

Ideas App Ideas About

Listing Ideas

New Idea					
Name	Description	Picture			
Hang An Interior Curtain	In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.	A	Show	Edit	Destroy
Cover A Wall With Plates	Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering the whole wall with plates has the same effect as "one big piece of art."		Show	Edit	Destroy
Mix-and- match Chairs	Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to create a more casual atmosphere in the dining room.		Show	Edit	Destroy

Now, let's do the same thing to the Show, Edit and Delete link.

```
<%= link_to 'Show', idea, class: 'btn btn-primary' %>
<%= link_to 'Edit', edit_idea_path(idea), class: 'btn btn-primary' %>
<<td><%= link_to 'Destroy', idea, method: :delete, data: { confirm: 'Are you sure?' }, class: 'btn btn-primary' %>
```

And, you'll see this:

Ideas App Ideas About

Listing Ideas

New Idea		
Name	Description	Picture
Hang An Interior Curtain	In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.	Show Edit Destroy
Cover A Wall With Plates	Loy discovered Hackerware on eBay — "there's tons of it, and it's so cheap!" — and started collecting it for the dining room. Covering the whole wall with plates has the same effect as "one big piece of art."	Show Edit Destroy
Mix-and- match Chairs	Swap out your formal chairs (in this case, bright blue and green ones) for a few rustic metal ones. Designer Ramsay Gourd did this to create a more casual atmosphere in the dining room.	Show Edit Destroy

But... do you think all buttons should be in blue colour? Can we make Show button green, Edit button orange and Delete button red?

Yes we can!

FYI, Bootstrap offers many colour options for us!

So, let's use them.

- For Show button, use btn btn-success
- For Edit button, use btn btn-warning
- For Delete button, use btn btn-danger

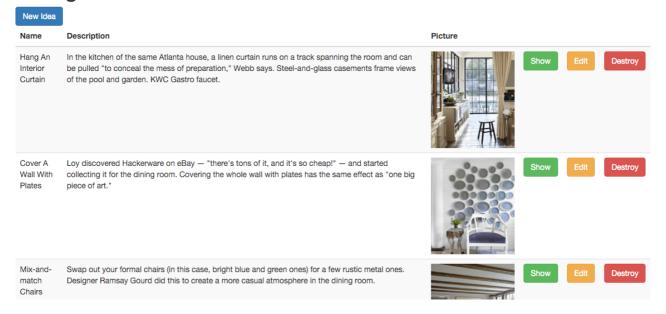
```
<%= link_to 'Show', idea, class: 'btn btn-success' %>
<%= link_to 'Edit', edit_idea_path(idea), class: 'btn btn-warning' %>
<</td>

<%= link_to 'Destroy', idea, method: :delete, data: { confirm: 'Are you sure?' }, class: 'btn btn-danger' %>
```

And, now you'll see this:

Ideas App Ideas About

Listing Ideas



File changes at this stage

Step #5 - Update Single Idea Page

Now, if you click the Show button to see single idea page, you'll see this:

Ideas App Ideas

Name: Hang An Interior Curtain

About

Description: In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.



Edit | Back Rails Girls 2016

We need to edit this page too. So, let's do it together!

Understanding How Bootstrap Grid System Works



FYI, Bootstrap has it's own grid system. The structure is like inside the image above.

We only need 1 container. Inside the container, we'll have rows and inside each row, there will be 12 equal width columns (red color).

Total number of columns in a row must always equal to 12.

Our Single Idea Page Structure

We have 3 important things to show inside this page:

- 1. Name
- 2. Description
- 3. Picture

Let's put them this way:

Name		
Description	Picture	

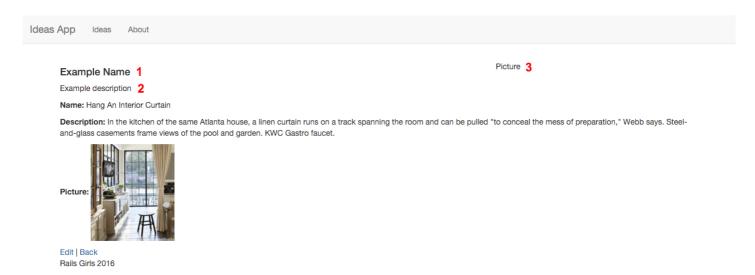
We're going to put Name and Description inside left side and put the Picture inside the right side.

For the left side, we're going to put it inside 9 columns and for the right side, we're going to put it inside 3 columns.

Now, let's open app/views/ideas/show.html.erb le.

Add this block of code after the id="notice"><%= notice %> line (if you've it):

Now, open your browser and you'll see this:



What we're doing here now is, we're hard-coding a set of example data to see how our Bootstrap grid will looks inside the 9 + 3 columns that we planned earlier.

As you can see above, Example Name and Example description are both place inside left side (marked 1 and 2) and Picture is placed on the right side (marked 3).

Now, let's change the example data to Rails code and remove old ones:

Remove this arst:

And add this:

You'll get this:

Ideas App Ideas About

Hang An Interior Curtain

In the kitchen of the same Atlanta house, a linen curtain runs on a track spanning the room and can be pulled "to conceal the mess of preparation," Webb says. Steel-and-glass casements frame views of the pool and garden. KWC Gastro faucet.



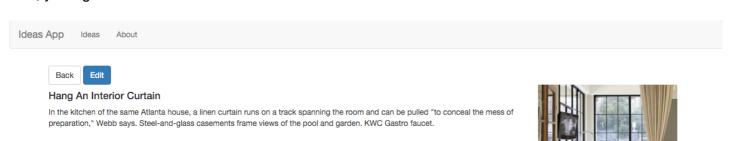
Edit | Back Rails Girls 2016

Looks better right?

Now, let's change the Edit and Back button to use Bootstrap CSS and move it to top of the page like this:

```
<%= link_to 'Back', ideas_path, class: 'btn btn-default' %>
<%= link_to 'Edit', edit_idea_path(@idea), class: 'btn btn-primary' %>
```

And, you'll get this:



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Yay, now both our index and single idea page looks better! :dancer:

File changes at this stage

Step #6 - Update Idea Form

Now, let's focus on the idea form. If you go to http://localhost:3000/ideas/new , you'll see this:

New Idea

Name
Description
Picture
Choose File No file choser
Create Idea
Back
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We're going to change this form and apply Bootstrap CSS to make this form looks better.

Let's open app/views/ideas/_form.html.erb le.

Find the erst <% end %> tag and add this block of code below it:

You'll see this:

New Idea

Name
Description
Picture
Choose File No file chosen
Save Idea
Name
Pagaristica
Description
Picture
Choose File No file chosen
Create Idea
Back
Rails Girls 2016

Just like what we did inside Update Single Idea Page step earlier, we're hard-coding the form structure arst to see how it's going to look.

As you can see, we now have 4 Bootstrap inputs:

- 1. Name
- 2. Description
- 3. Picture
- 4. Submit button (let's called it | Save Idea | button)

Let's remove old elds rst:

And let's update our hard-coded Bootstrap form into this:

Now, you'll see this:

Ideas	App Ideas About
	New Idea
	Name
	Description
	Picture
	Choose File No file chosen
	Save Idea
	Back
	Rails Girls 2016

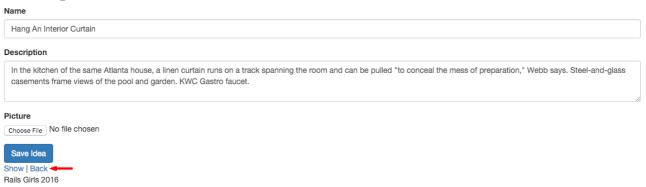
File changes at this stage

Step #7 - Update New and Edit Template Buttons

As you can see above, Back link still in plain 'ol style link.

And if you back to ideas index table page and click on any idea Edit button, you'll see this:

Editing Idea



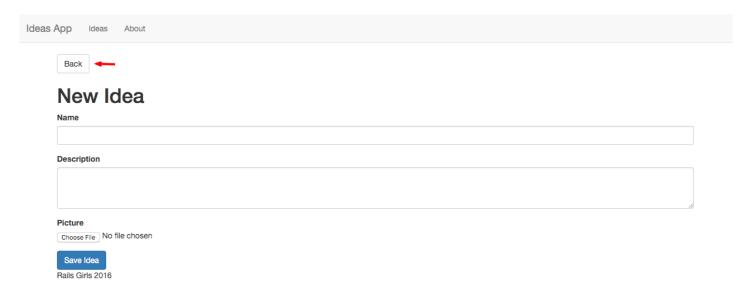
So, let's turn this links into Bootstrap buttons.

Let's start with app/views/ideas/new.html.erb le_rst.

Make it like this:

```
<%= link_to 'Back', ideas_path, class: 'btn btn-default' %>
<h1>New Idea</h1>
<%= render 'form' %>
```

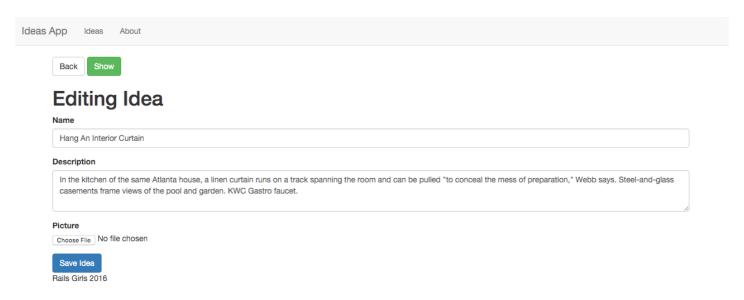
Now, when you click on New Idea button inside the ideas index table page, you'll see this:



Next, let's open app/views/ideas/edit.html.erb le and make it like this:

```
<%= link_to 'Back', ideas_path, class: 'btn btn-default' %> <%= link_to 'Show', @i
dea, class: 'btn btn-success' %>
<h1>Editing Idea</h1>
<%= render 'form' %>
```

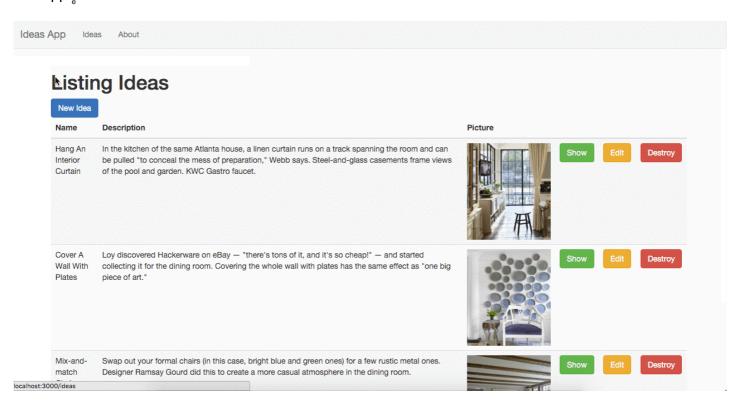
Which will give you this result:



File changes at this stage

Conclusion

Our app anal look:



Congratulations, your Idea app now looks better in Bootstrap! Feel free to explore Bootstrap more and use it inside your Rails projects!

- Bootstrap CSS
- Bootstrap Components

You can download full source code of this Bootstrap-ish Idea app here.

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Made with :heart: from Kuantan, MY