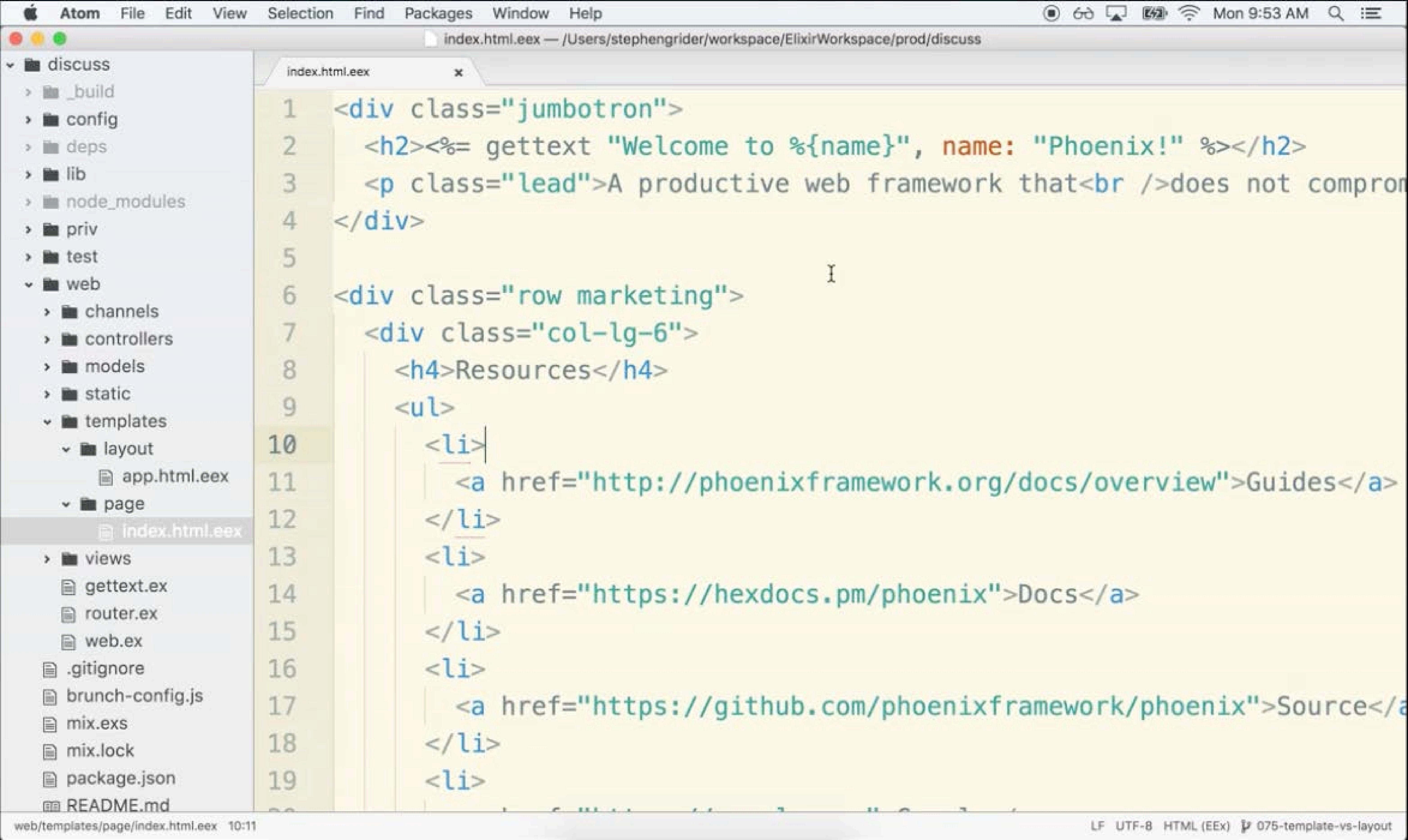
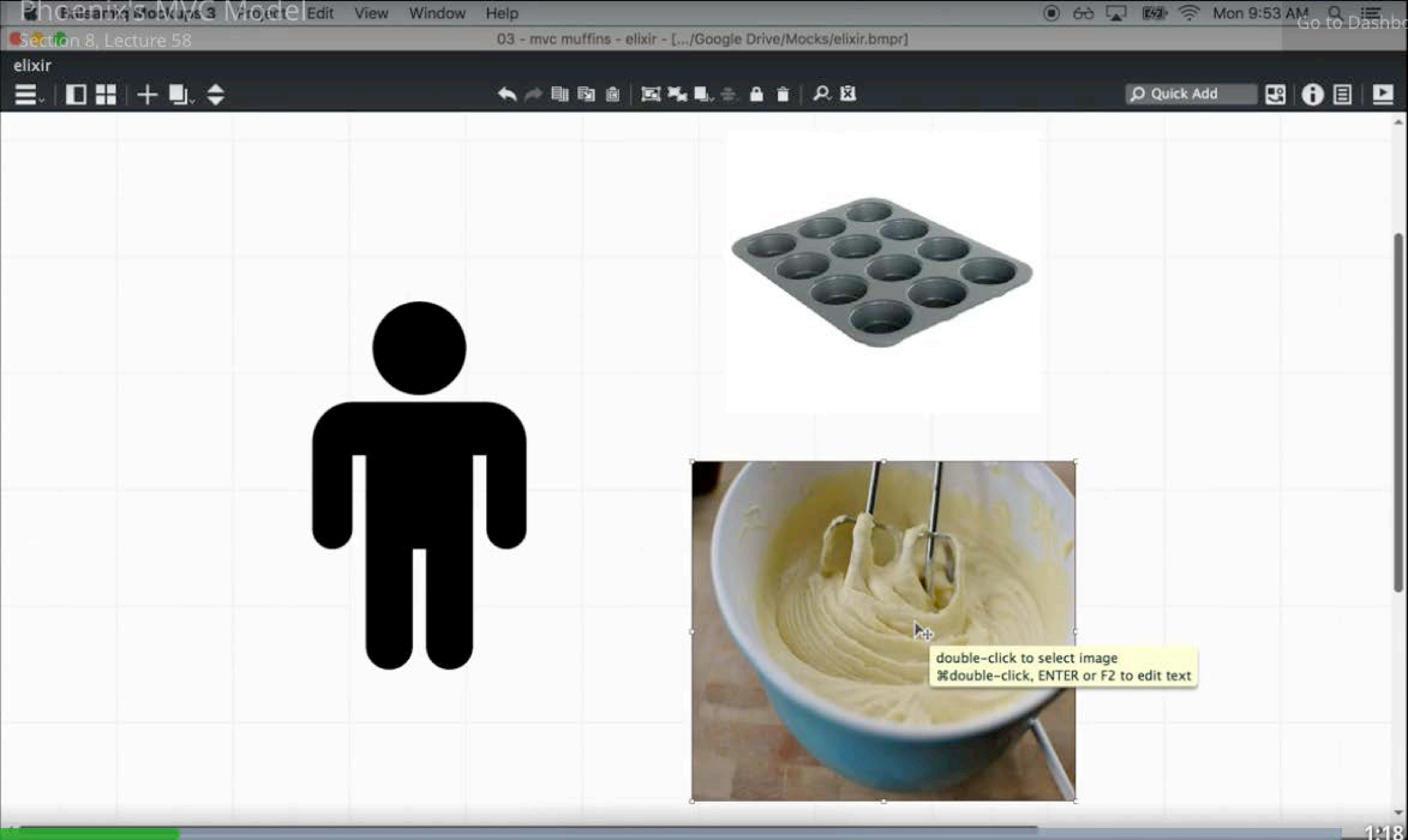
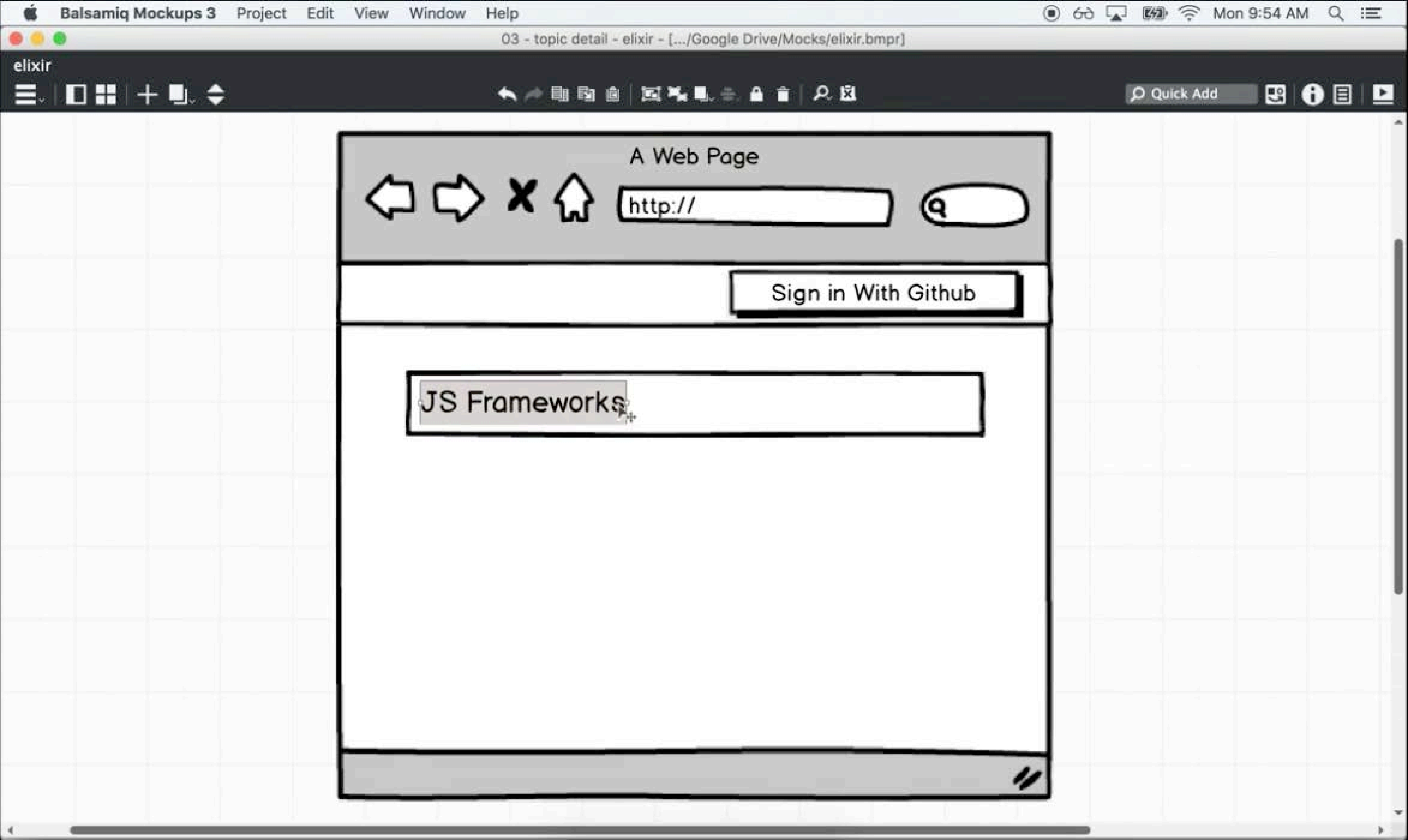
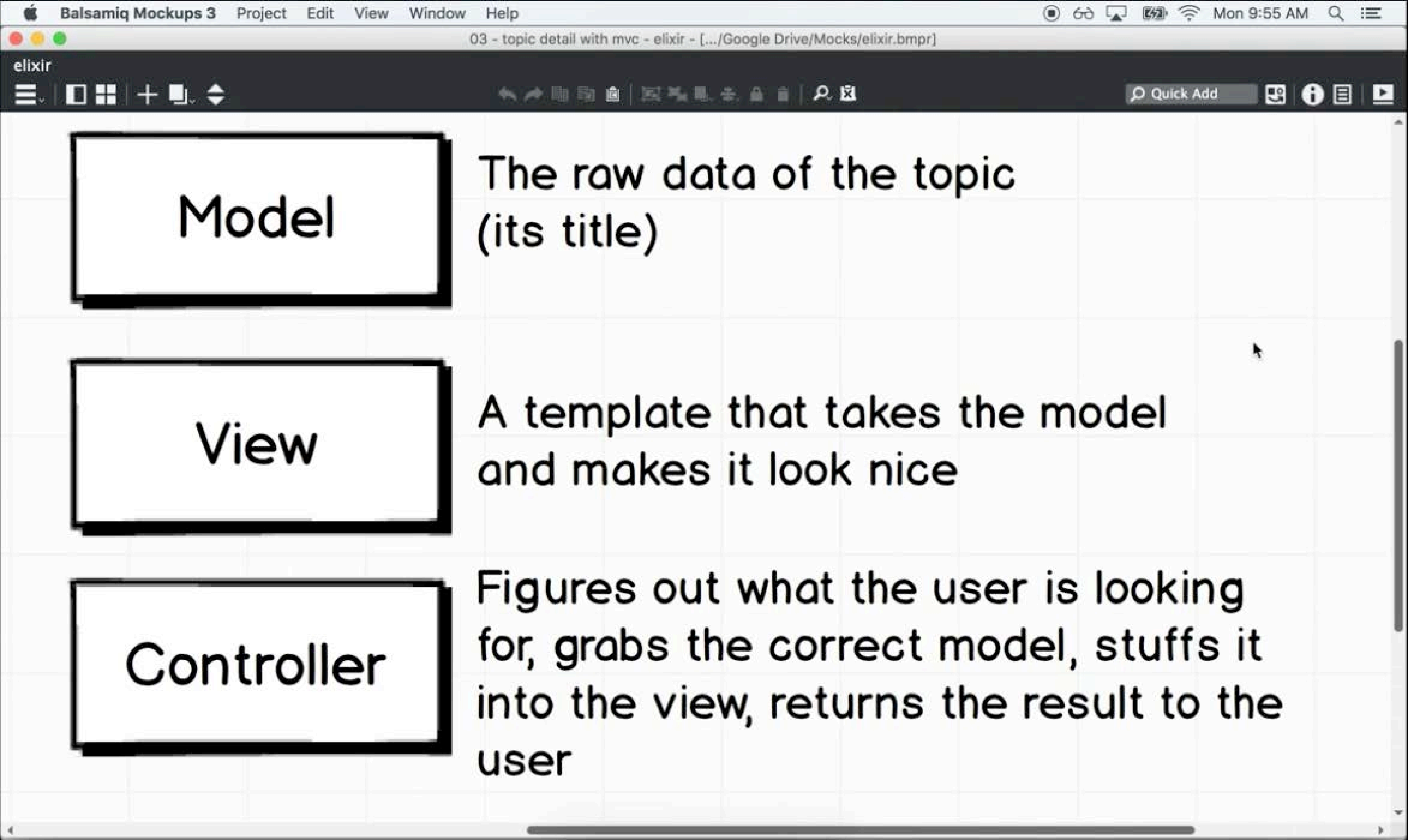


```
<div class="jumbotron">
  <h2><%= gettext "Welcome to %{name}", name: "Phoenix!" %></h2>
  <p class="lead">A productive web framework that<br />does not compro
</div>

<div class="row marketing">
  <div class="col-lg-6">
    <h4>Resources</h4>
    <ul>
      <li>
        <a href="http://phoenixframework.org/docs/overview">Guides</a>
      </li>
      <li>
        <a href="https://hexdocs.pm/phoenix">Docs</a>
      </li>
      <li>
        <a href="https://github.com/phoenixframework/phoenix">Source</
      </li>
      <li>
```



double-click to select image
⌘double-click, ENTER or F2 to edit text


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 9:54 AM
03 - topic detail - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
A Web Page
http://
Sign in With Github
JS Frameworks


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 9:55 AM
03 - topic detail with mvc - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add

Model

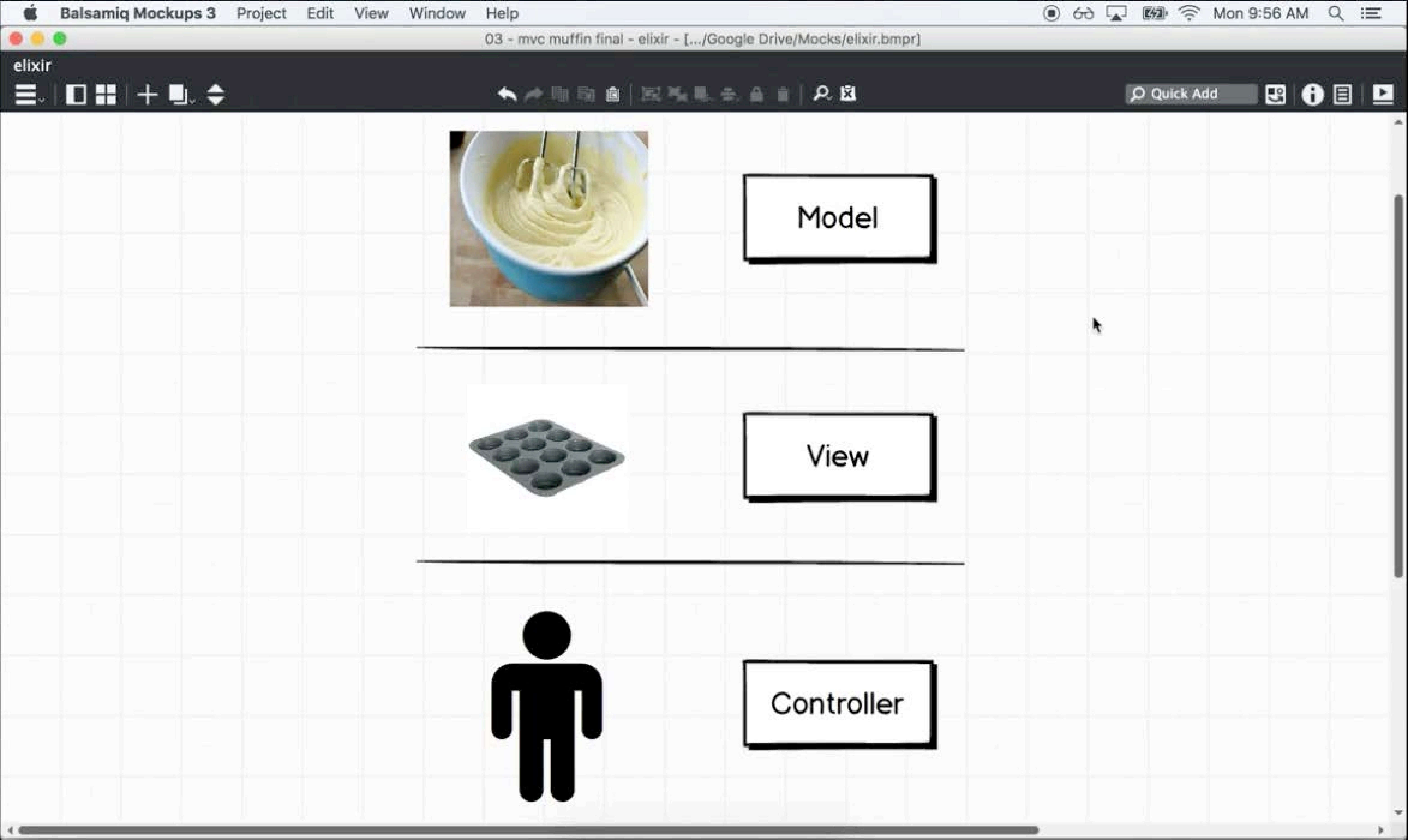
The raw data of the topic
(its title)

View

A template that takes the model
and makes it look nice

Controller

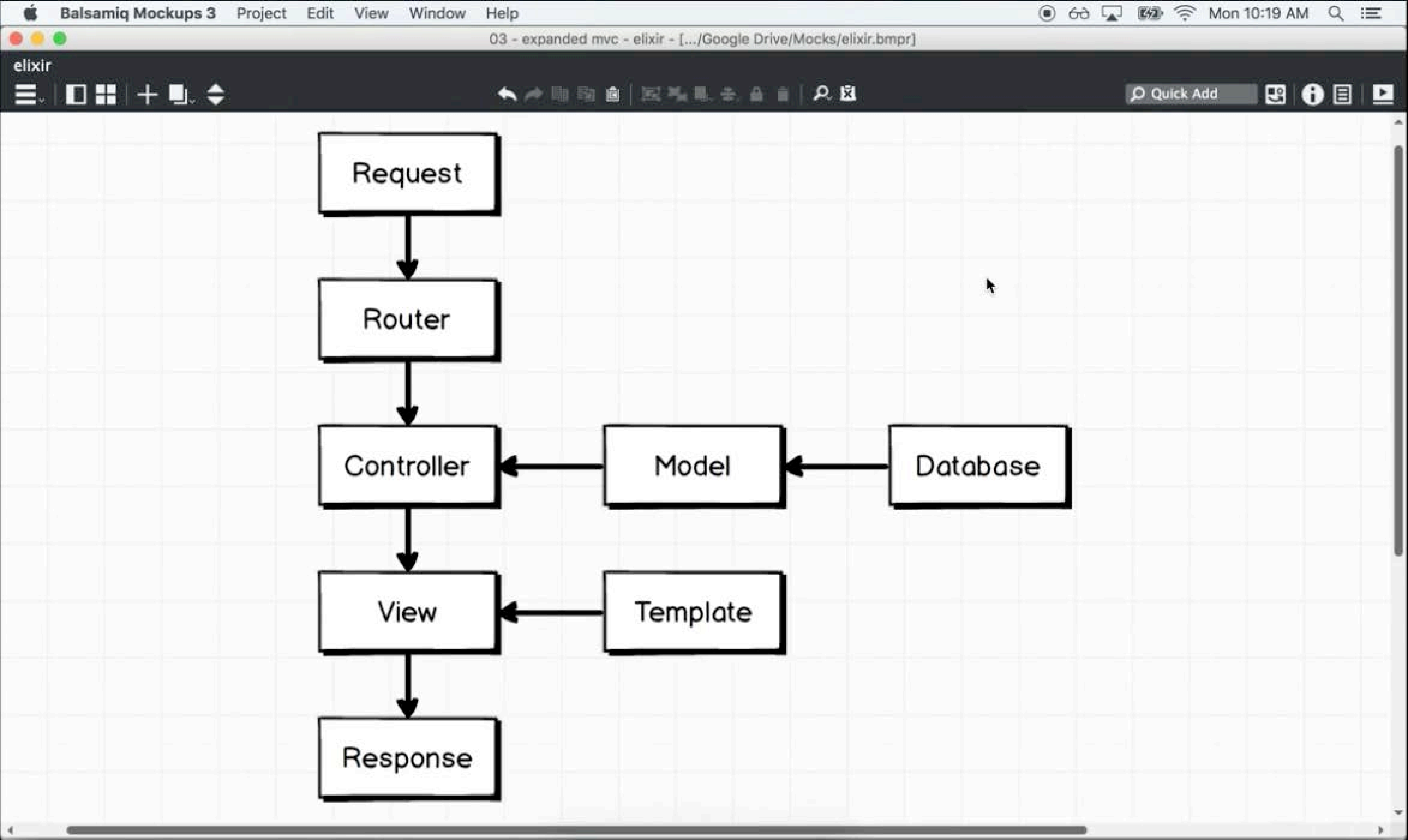
Figures out what the user is looking for, grabs the correct model, stuffs it into the view, returns the result to the user

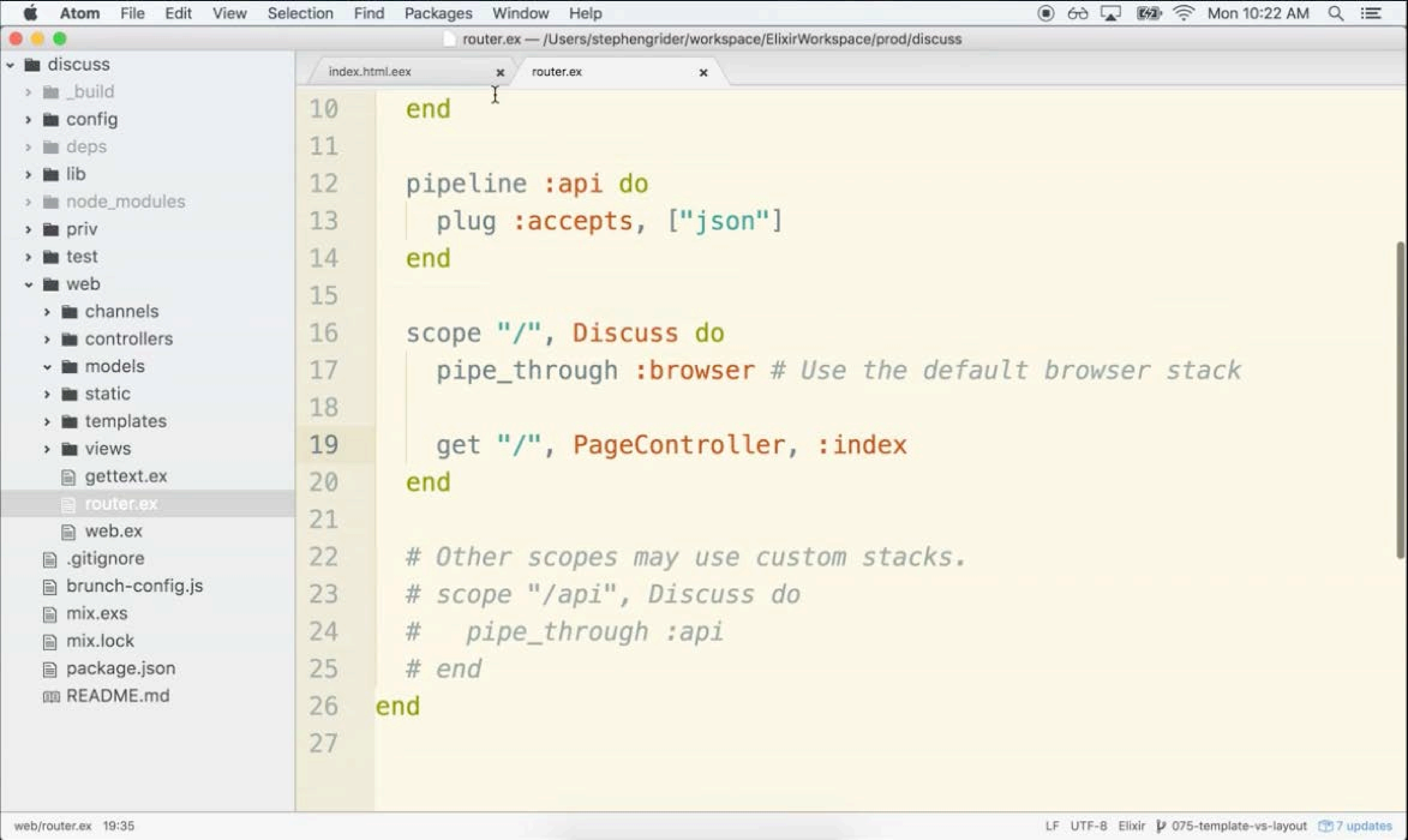

Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 9:56 AM
03 - mvc muffin final - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add

Model

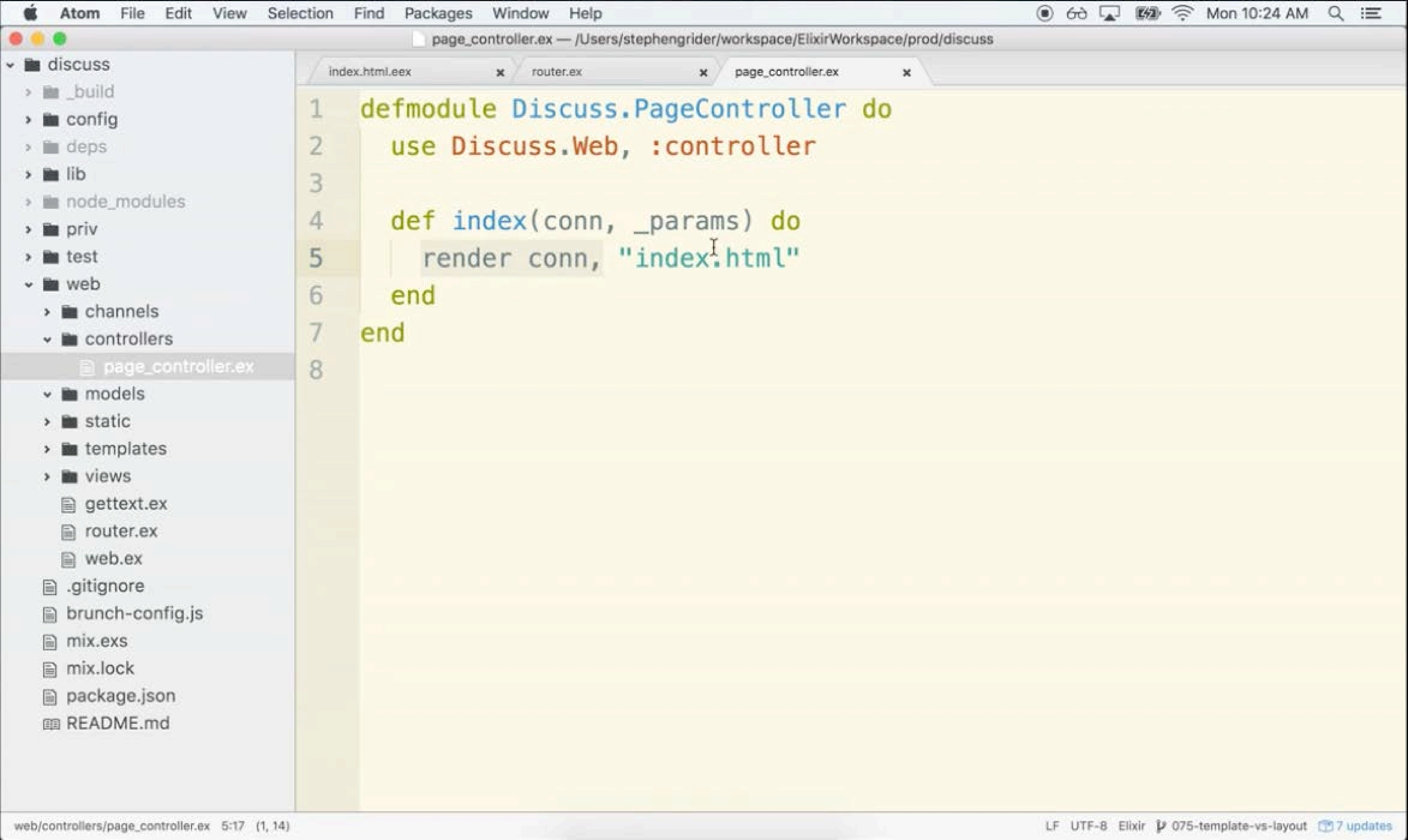
View

Controller

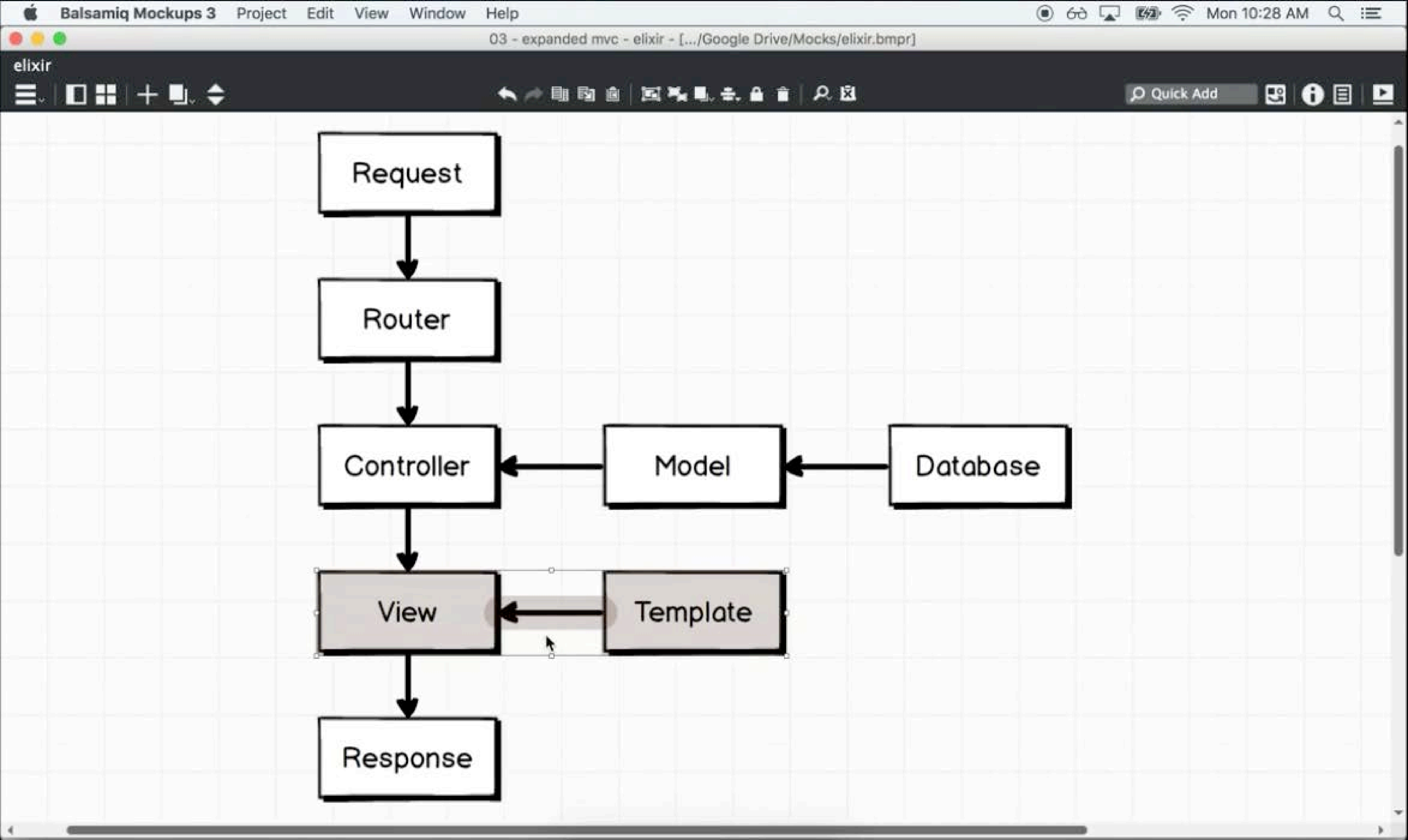

Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 10:19 AM
03 - expanded mvc - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
Request
Router
Controller
Model
Database
View
Template
Response

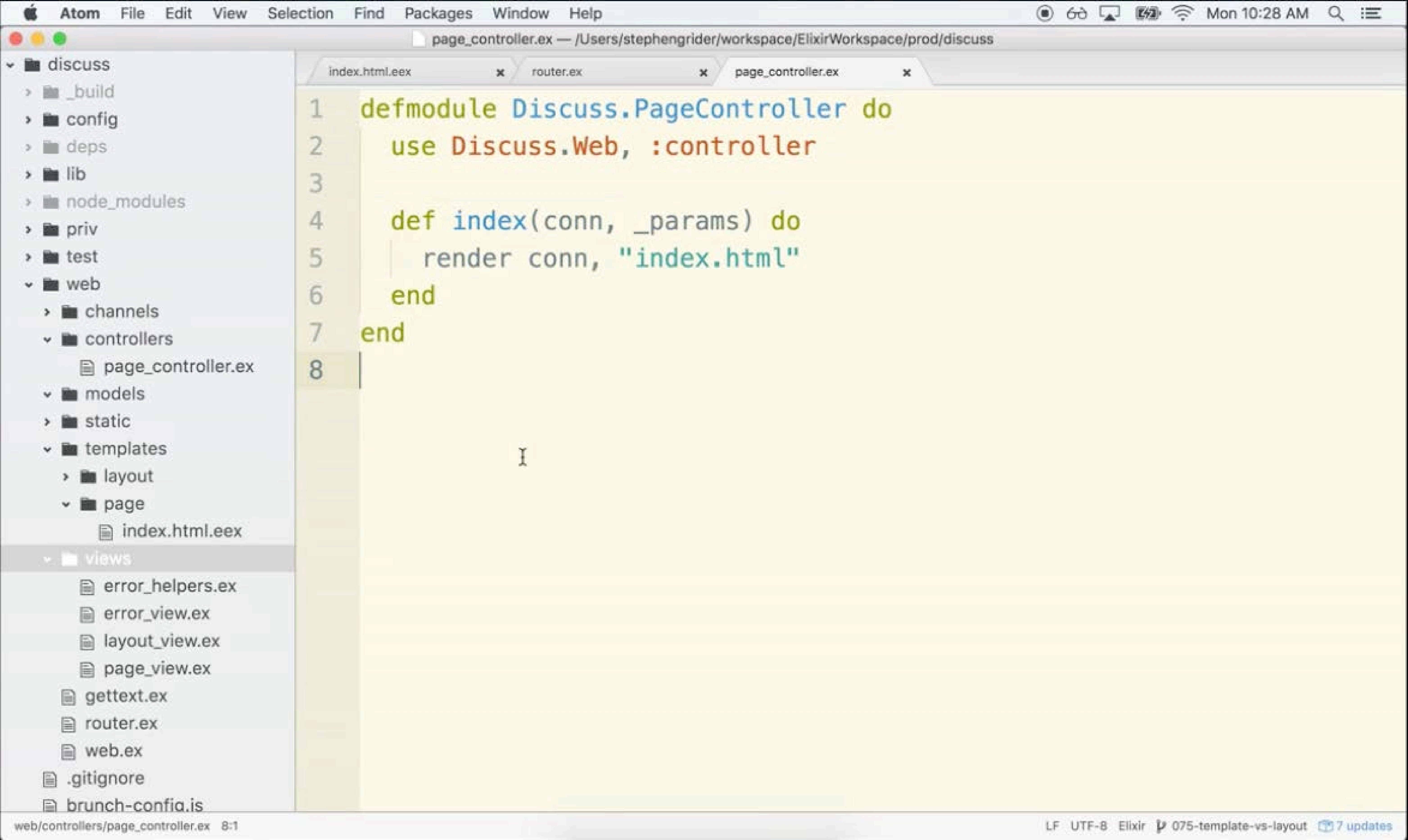


```
  end

  pipeline :api do
    plug :accepts, ["json"]
  end

  scope "/", Discuss do
    pipe_through :browser # Use the default browser stack

    get "/", PageController, :index
  end

  # Other scopes may use custom stacks.
  # scope "/api", Discuss do
  #   pipe_through :api
  # end
end
```

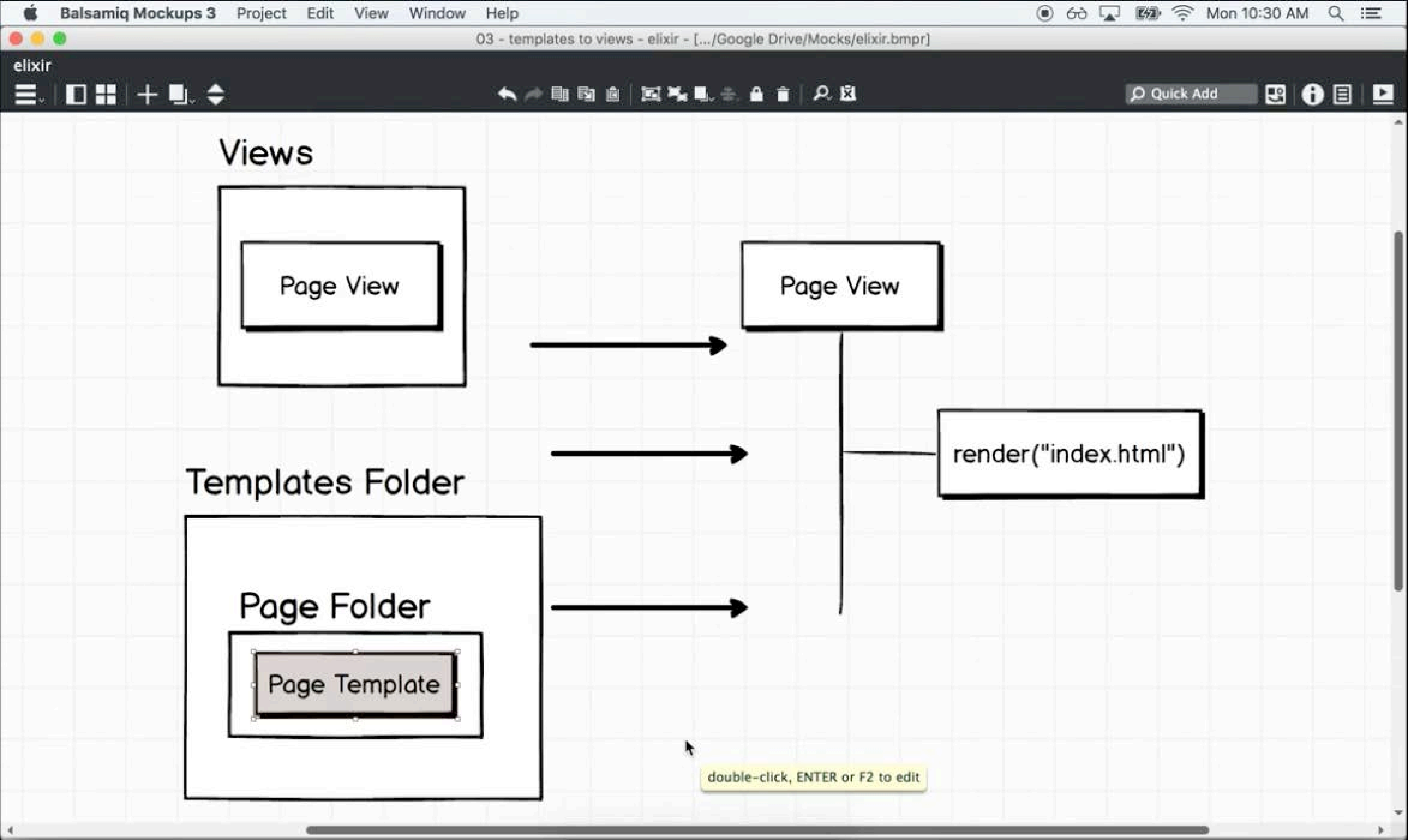


```
defmodule Discuss.PageController do
  use Discuss.Web, :controller

  def index(conn, _params) do
    render conn, "index.html"
  end
end
```


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 10:28 AM
03 - expanded mvc - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
Request
Router
Controller
Model
Database
View
Template
Response



```elixir
defmodule Discuss.PageController do
  use Discuss.Web, :controller

  def index(conn, _params) do
    render conn, "index.html"
  end
end

```


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 10:30 AM
03 - templates to views - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
double-click, ENTER or F2 to edit

Views

Page View

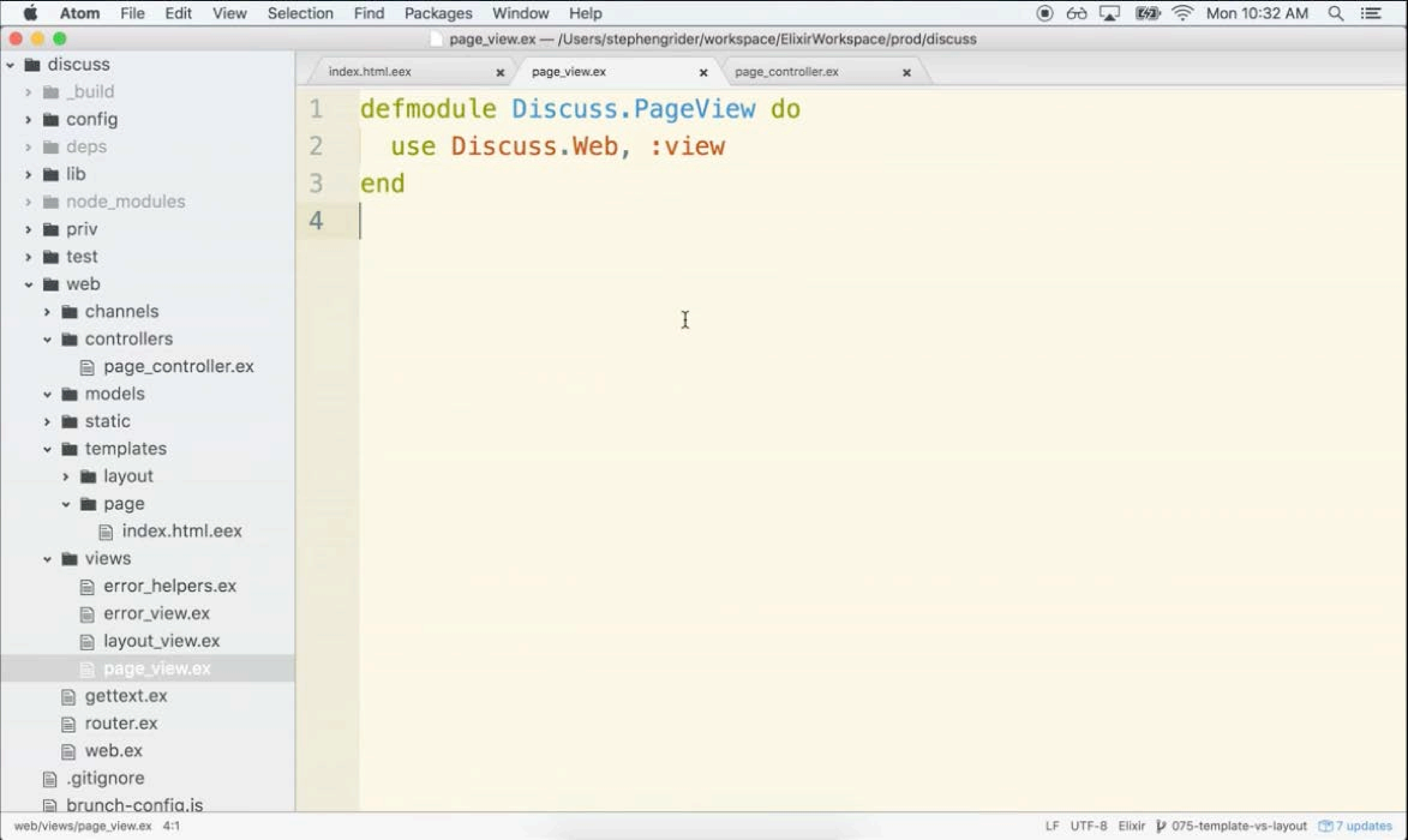
Templates Folder

Page Folder

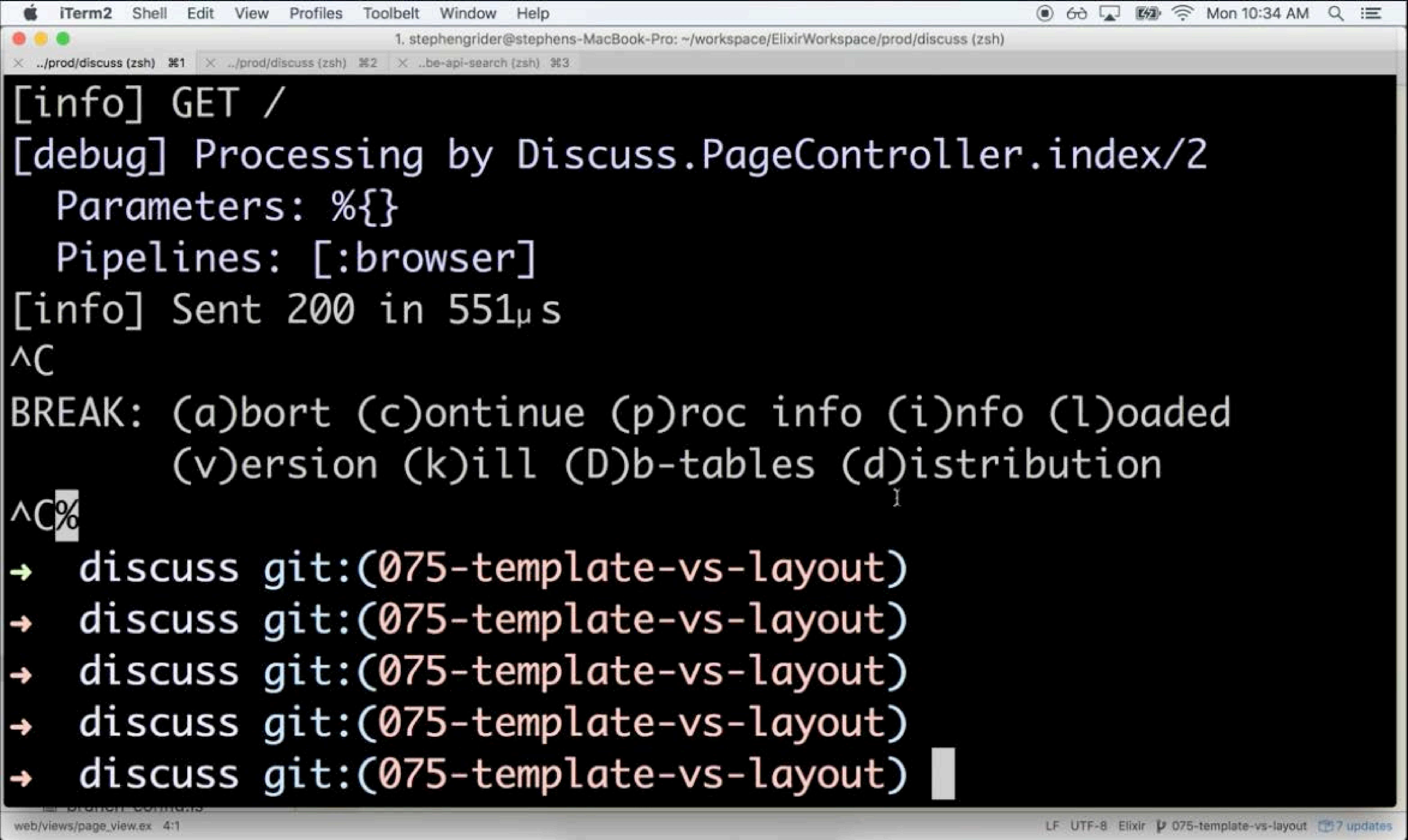
Page Template

Page View

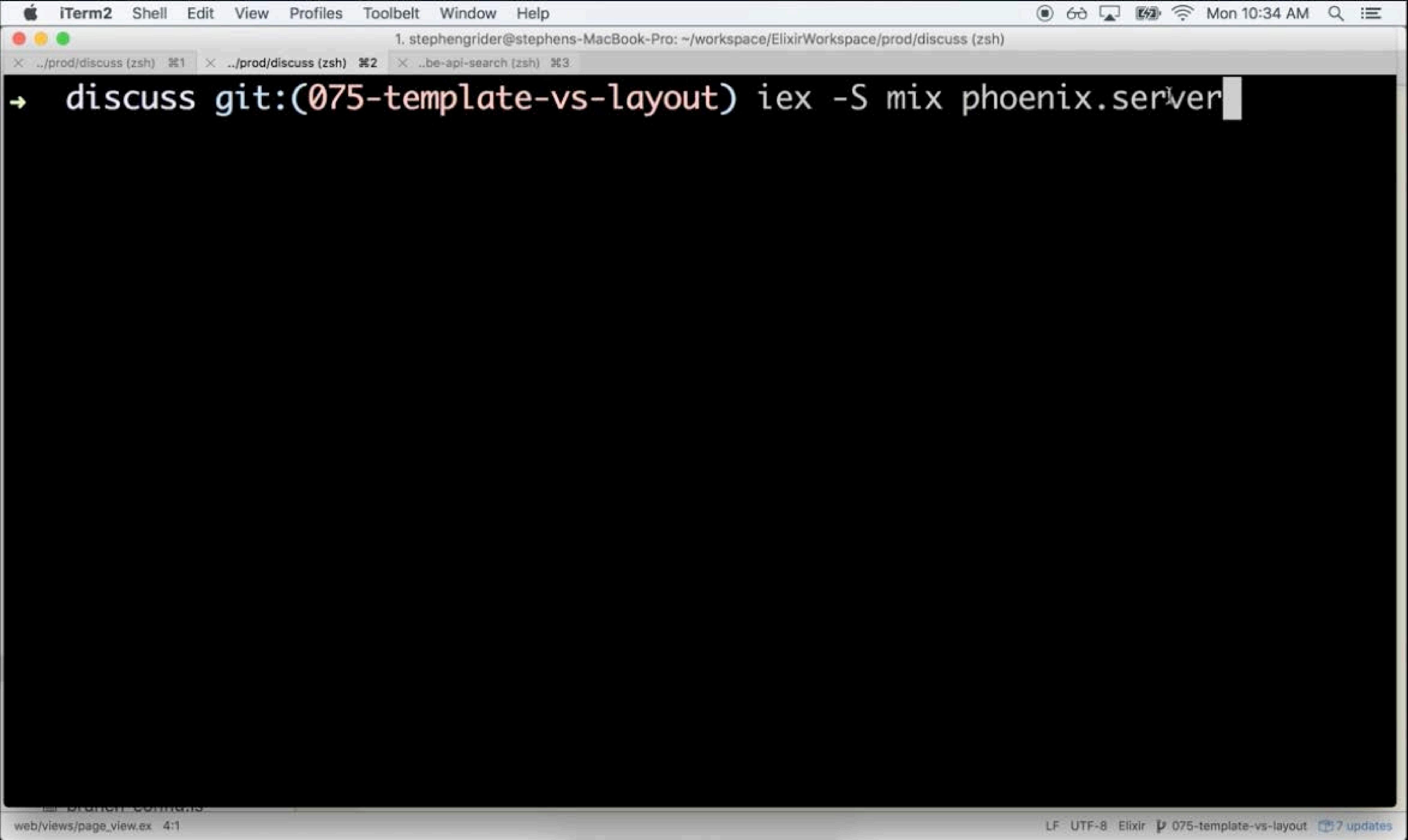
render("index.html")



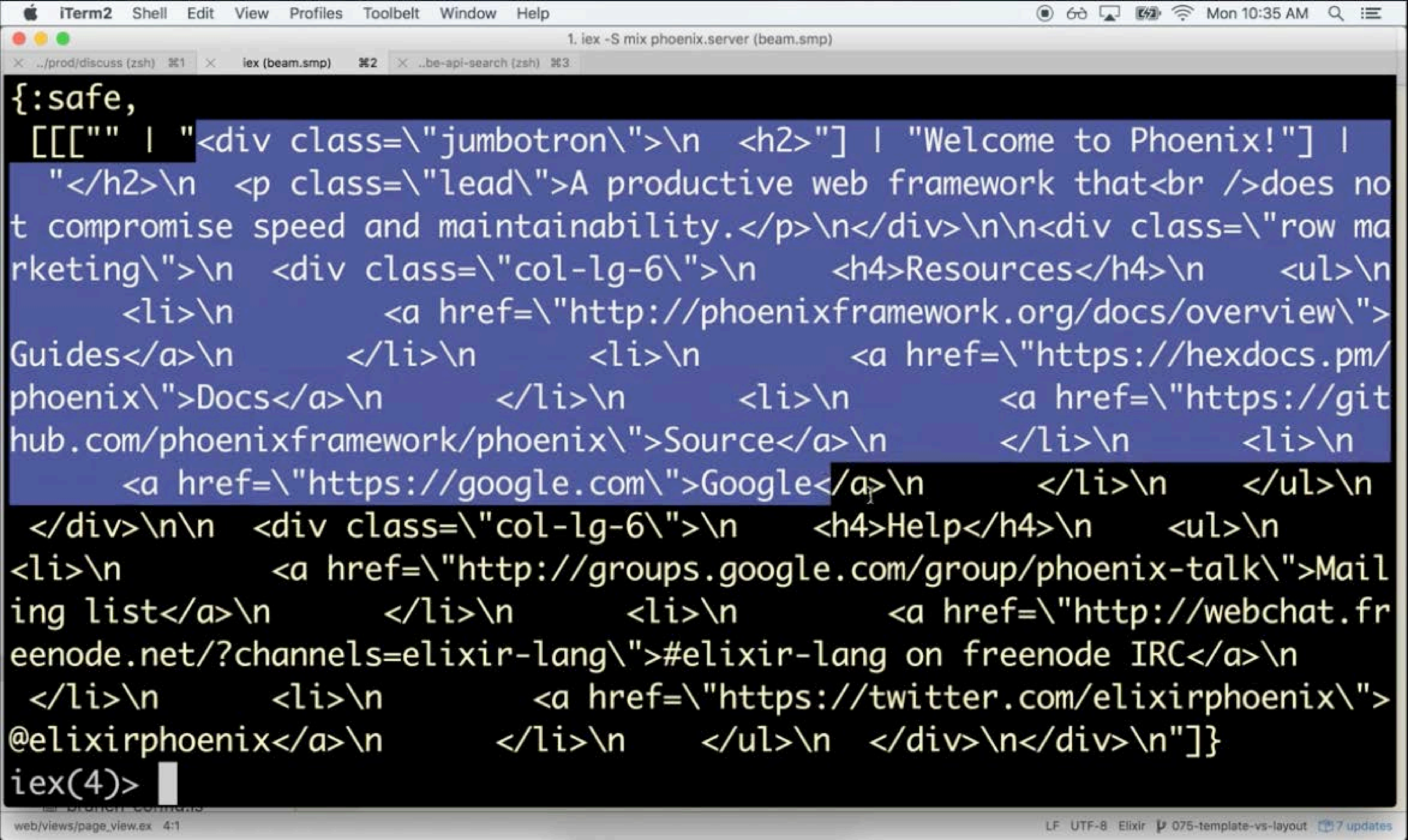
```
defmodule Discuss.PageView do
  use Discuss.Web, :view
end
```


iTerm2
Shell
Edit
View
Profiles
Toolbelt
Window
Help
Mon 10:34 AM
1. stephengrider@stephens-MacBook-Pro: ~/workspace/ElixirWorkspace/prod/discuss (zsh)
../prod/discuss (zsh) ⌘1
../prod/discuss (zsh) ⌘2
..be-api-search (zsh) ⌘3
web/views/page_view.ex 4:1
LF UTF-8 Elixir 075-template-vs-layout
7 updates

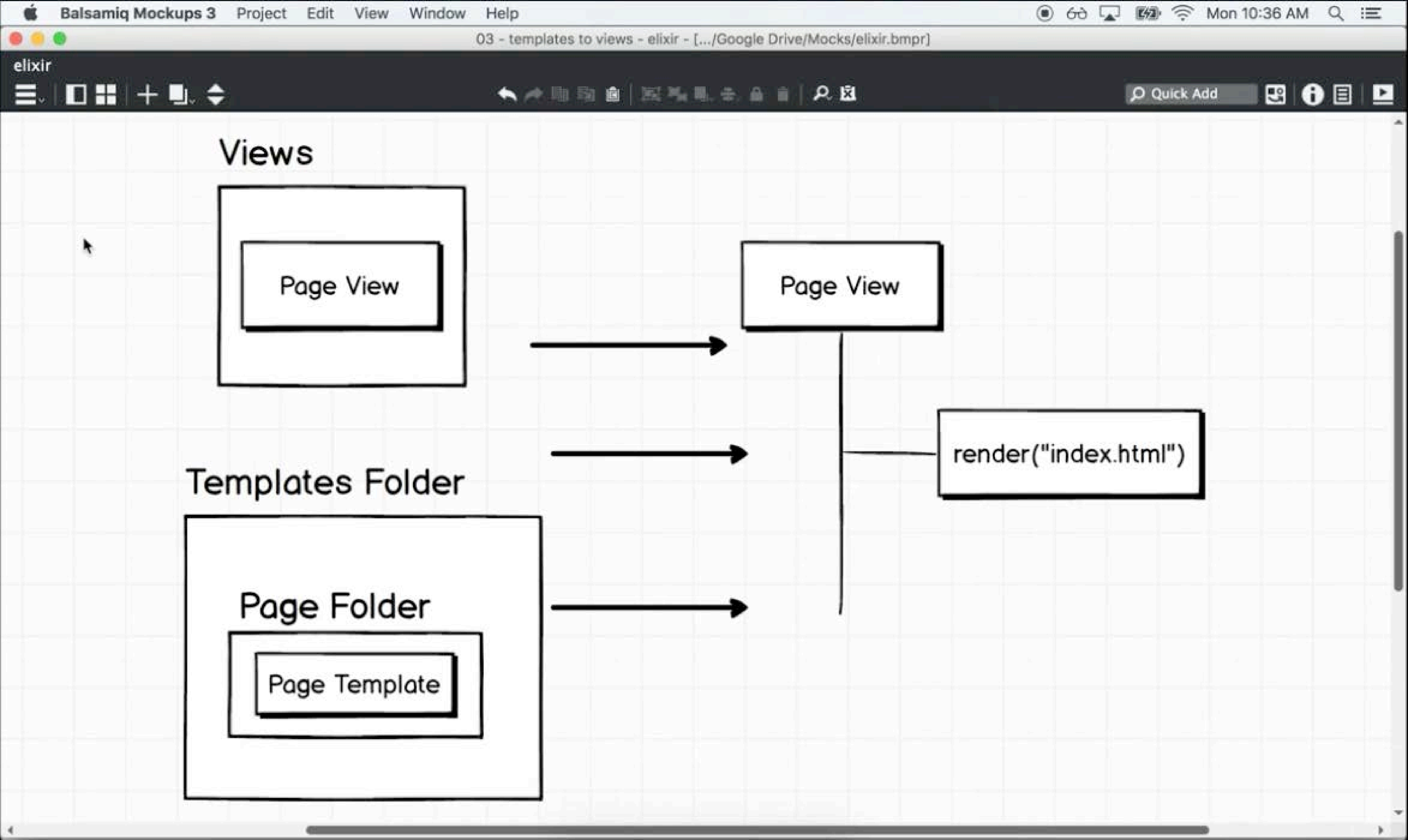
```
[info] GET /
[debug] Processing by Discuss.PageController.index/2
  Parameters: %{}
  Pipelines: [:browser]
[info] Sent 200 in 551µs
^C
BREAK: (a)bort (c)ontinue (p)roc info (i)nfo (l)oaded
       (v)ersion (k)ill (D)b-tables (d)istribution
^C%
➜  discuss git:(075-template-vs-layout)
➜  discuss git:(075-template-vs-layout)
➜  discuss git:(075-template-vs-layout)
➜  discuss git:(075-template-vs-layout)
➜  discuss git:(075-template-vs-layout)
```

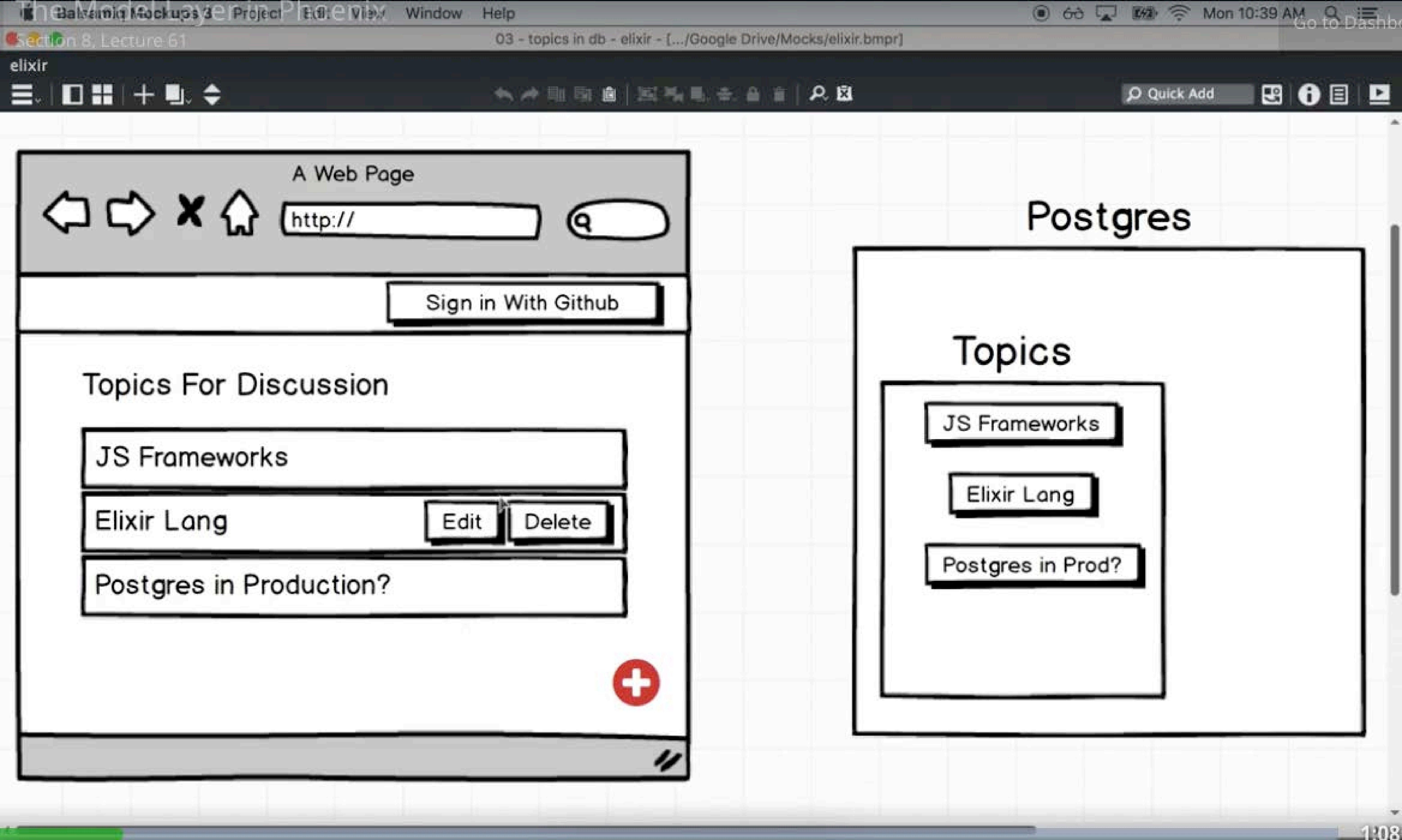

iTerm2 Shell Edit View Profiles Toolbelt Window Help
Mon 10:34 AM
1. stephengrider@stephens-MacBook-Pro: ~/workspace/ElixirWorkspace/prod/discuss (zsh)
../prod/discuss (zsh) ⌘1
../prod/discuss (zsh) ⌘2
..be-api-search (zsh) ⌘3
web/views/page_view.ex 4:1
LF UTF-8 Elixir 075-template-vs-layout 7 updates

```
➜  discuss git:(075-template-vs-layout) iex -S mix phoenix.server
```

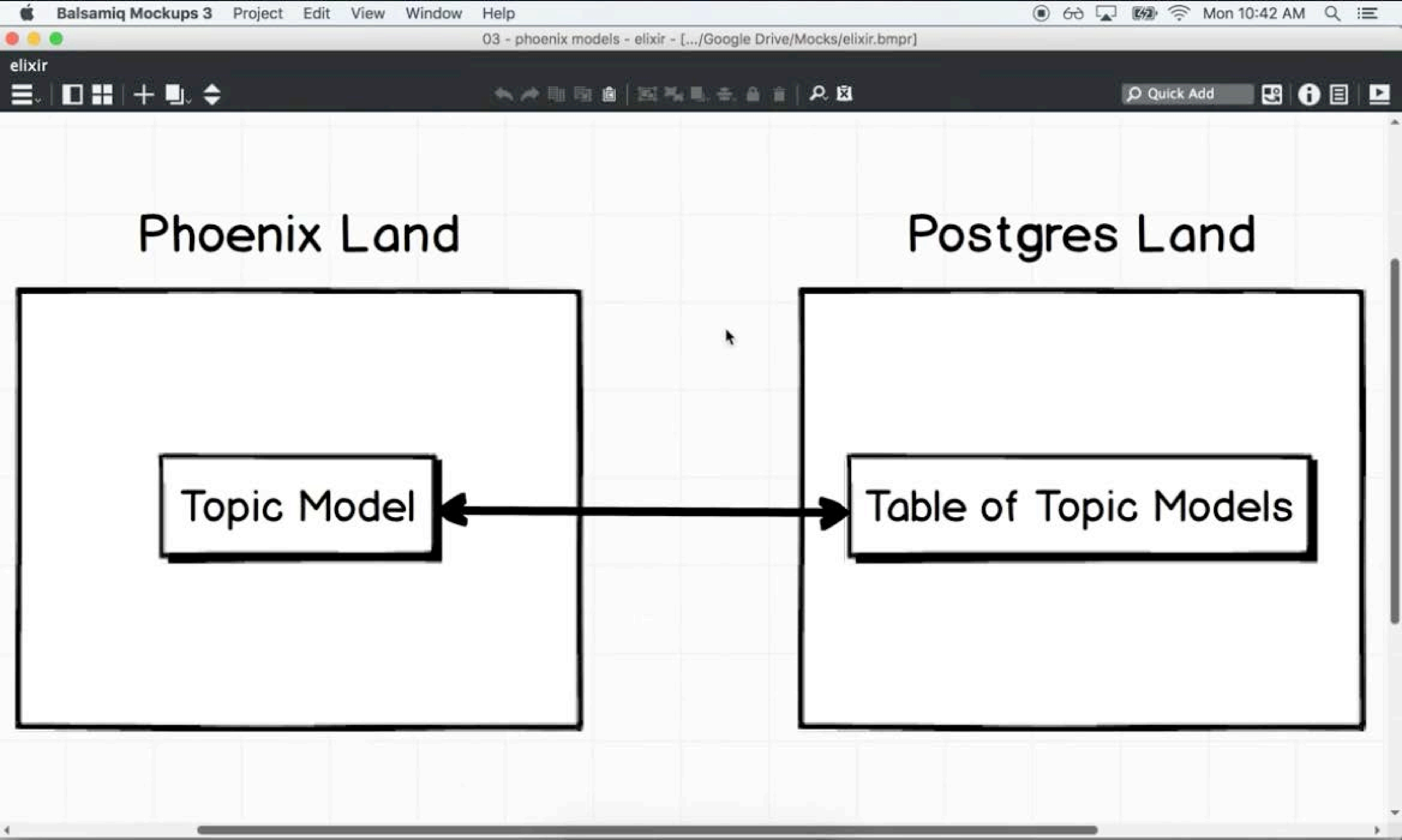


```
{:safe,
 [[["" | "<div class=\"jumbotron\">\n  <h2>"] | "Welcome to Phoenix!"] |
  "</h2>\n  <p class=\"lead\">A productive web framework that<br />does no
t compromise speed and maintainability.</p>\n</div>\n\n<div class=\"row ma
rketing\">\n  <div class=\"col-lg-6\">\n    <h4>Resources</h4>\n    <ul>\n
      <li>\n        <a href=\"http://phoenixframework.org/docs/overview\">
Guides</a>\n      </li>\n      <li>\n        <a href=\"https://hexdocs.pm/
phoenix\">Docs</a>\n      </li>\n      <li>\n        <a href=\"https://git
hub.com/phoenixframework/phoenix\">Source</a>\n      </li>\n      <li>\n
      <a href=\"https://google.com\">Google</a>\n      </li>\n    </ul>\n
 </div>\n\n  <div class=\"col-lg-6\">\n    <h4>Help</h4>\n    <ul>\n
<li>\n        <a href=\"http://groups.google.com/group/phoenix-talk\">Mail
ing list</a>\n      </li>\n      <li>\n        <a href=\"http://webchat.fr
eenode.net/?channels=elixir-lang\">#elixir-lang on freenode IRC</a>\n
 </li>\n      <li>\n        <a href=\"https://twitter.com/elixirphoenix\">
@elixirphoenix</a>\n      </li>\n    </ul>\n  </div>\n</div>\n"]}
iex(4)> 
```


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 10:36 AM
03 - templates to views - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
Views
Page View
Page View
render("index.html")
Templates Folder
Page Folder
Page Template



The Model Layer in Phoenix
Section 8, Lecture 61
Go to Dashbo
Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 10:39 AM
03 - topics in db - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
A Web Page
http://
Sign in With Github
Topics For Discussion
JS Frameworks
Elixir Lang
Edit
Delete
Postgres in Production?
Postgres
Topics
JS Frameworks
Elixir Lang
Postgres in Prod?
1:08

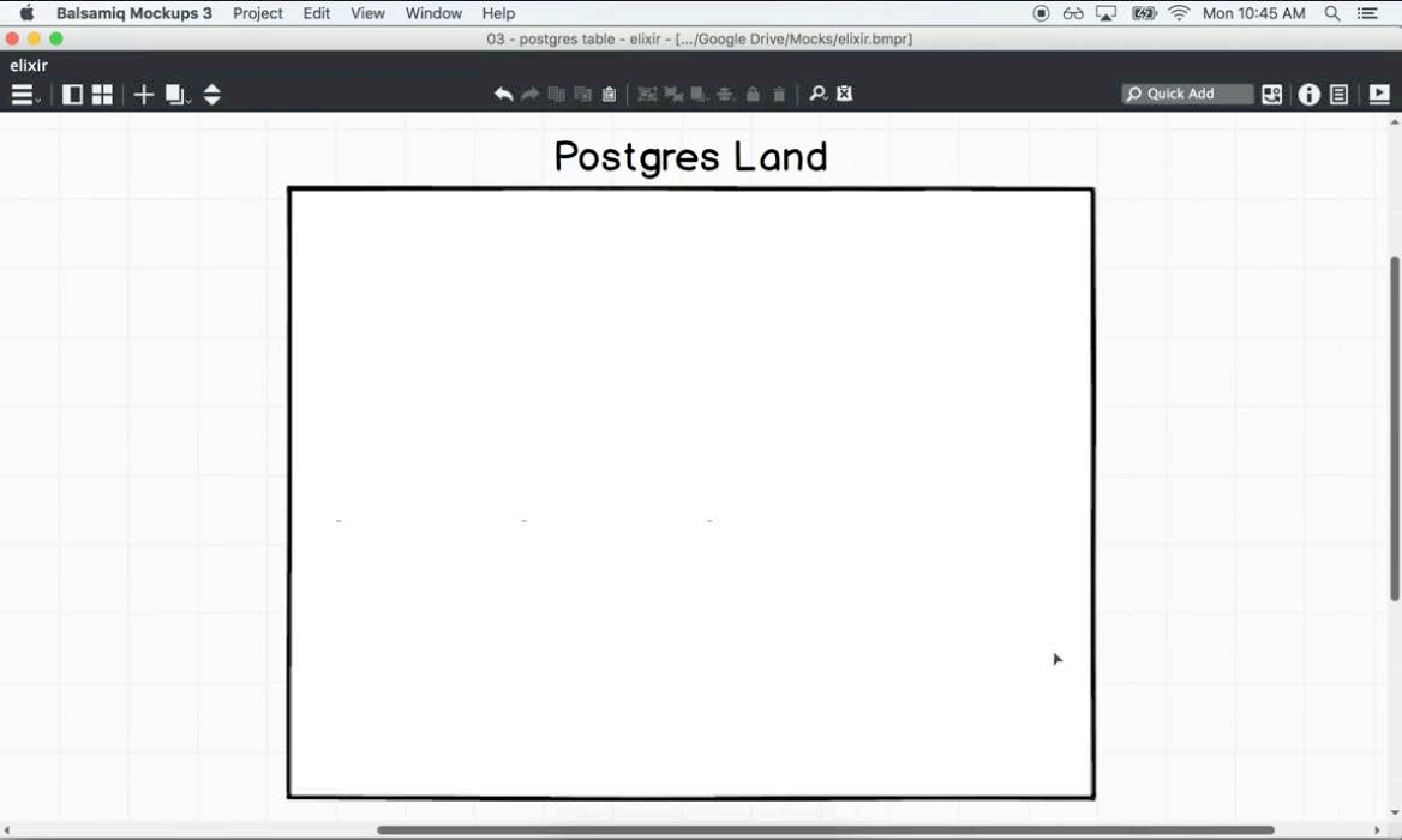


Phoenix Land

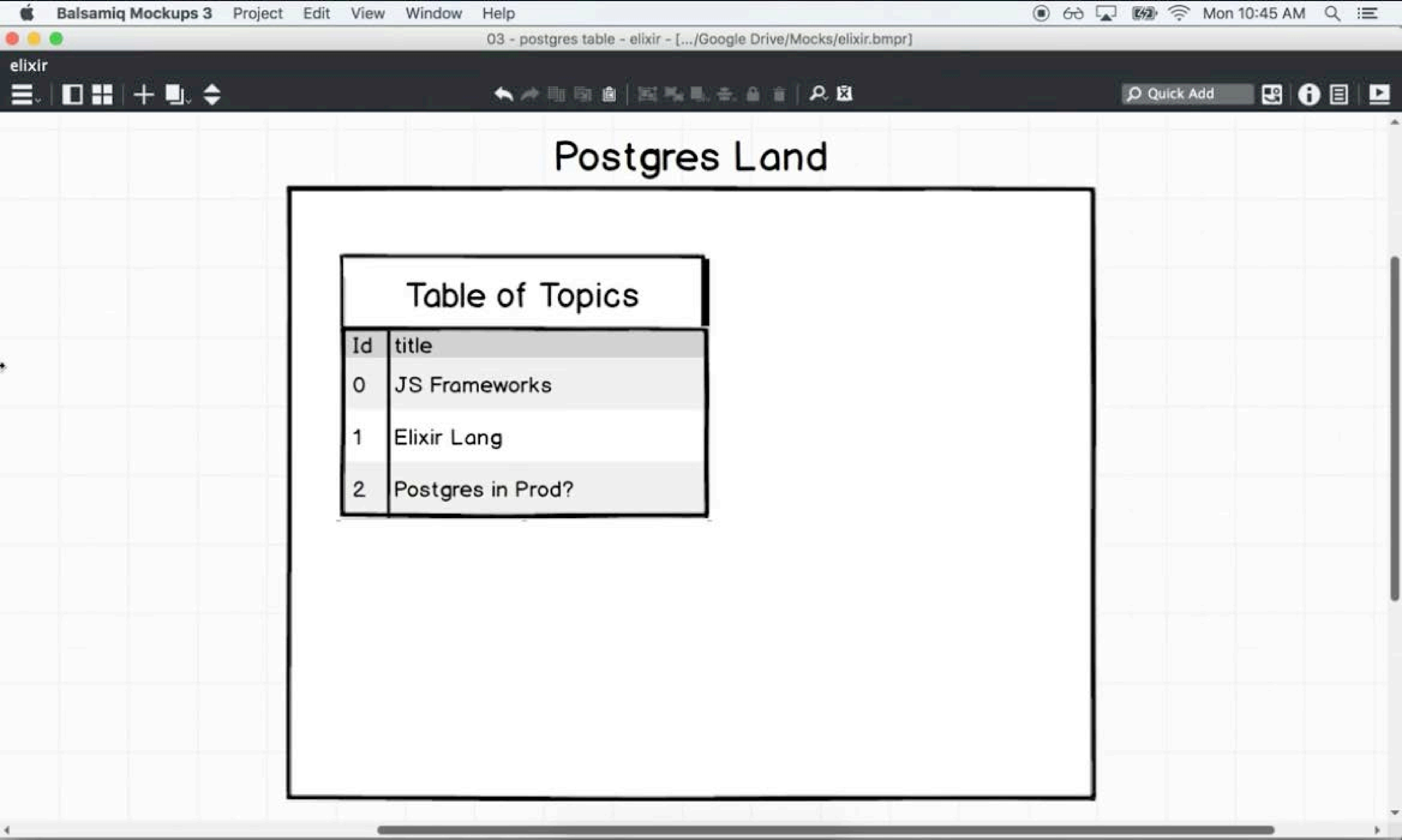
Postgres Land

Topic Model

Table of Topic Models



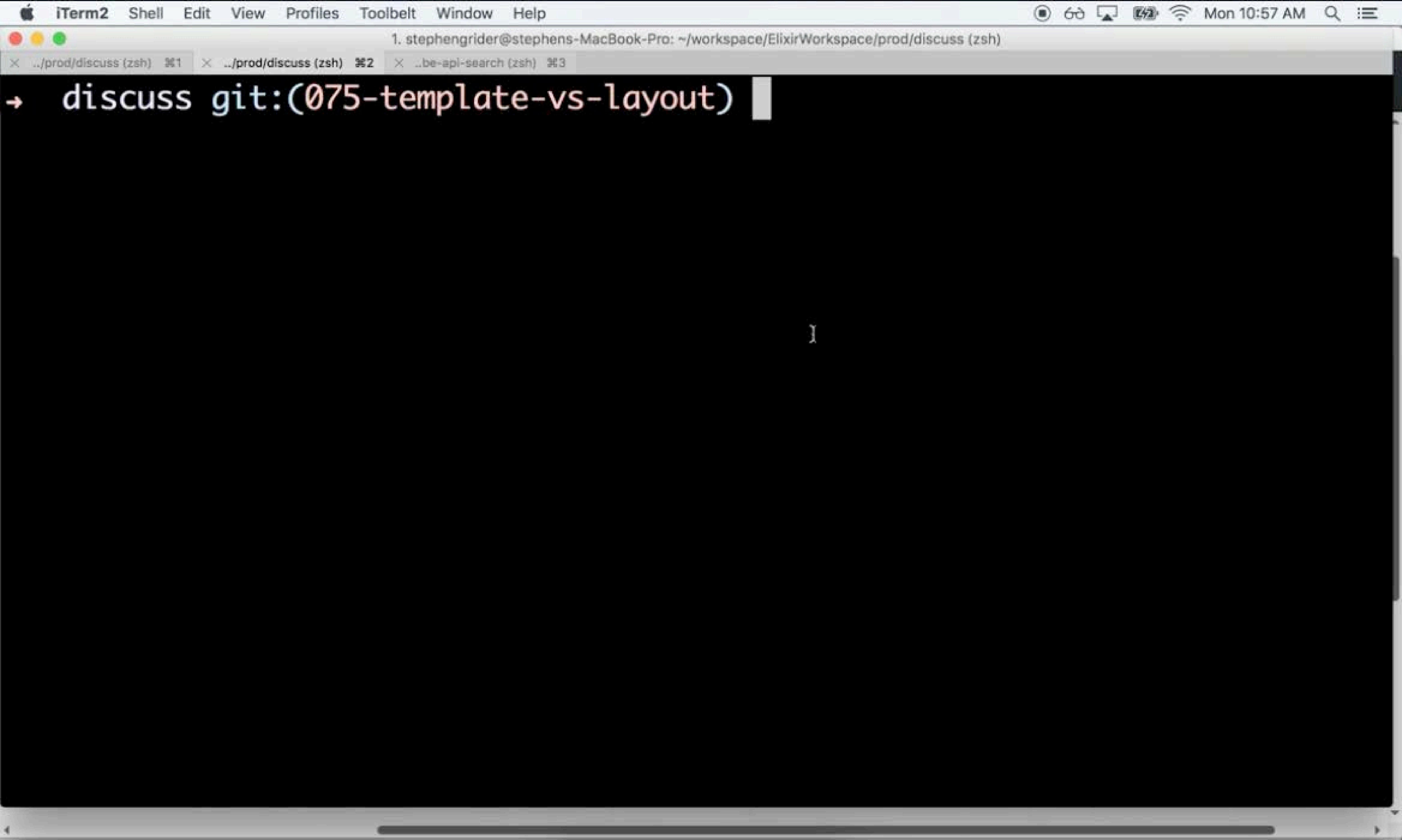
Postgres Land



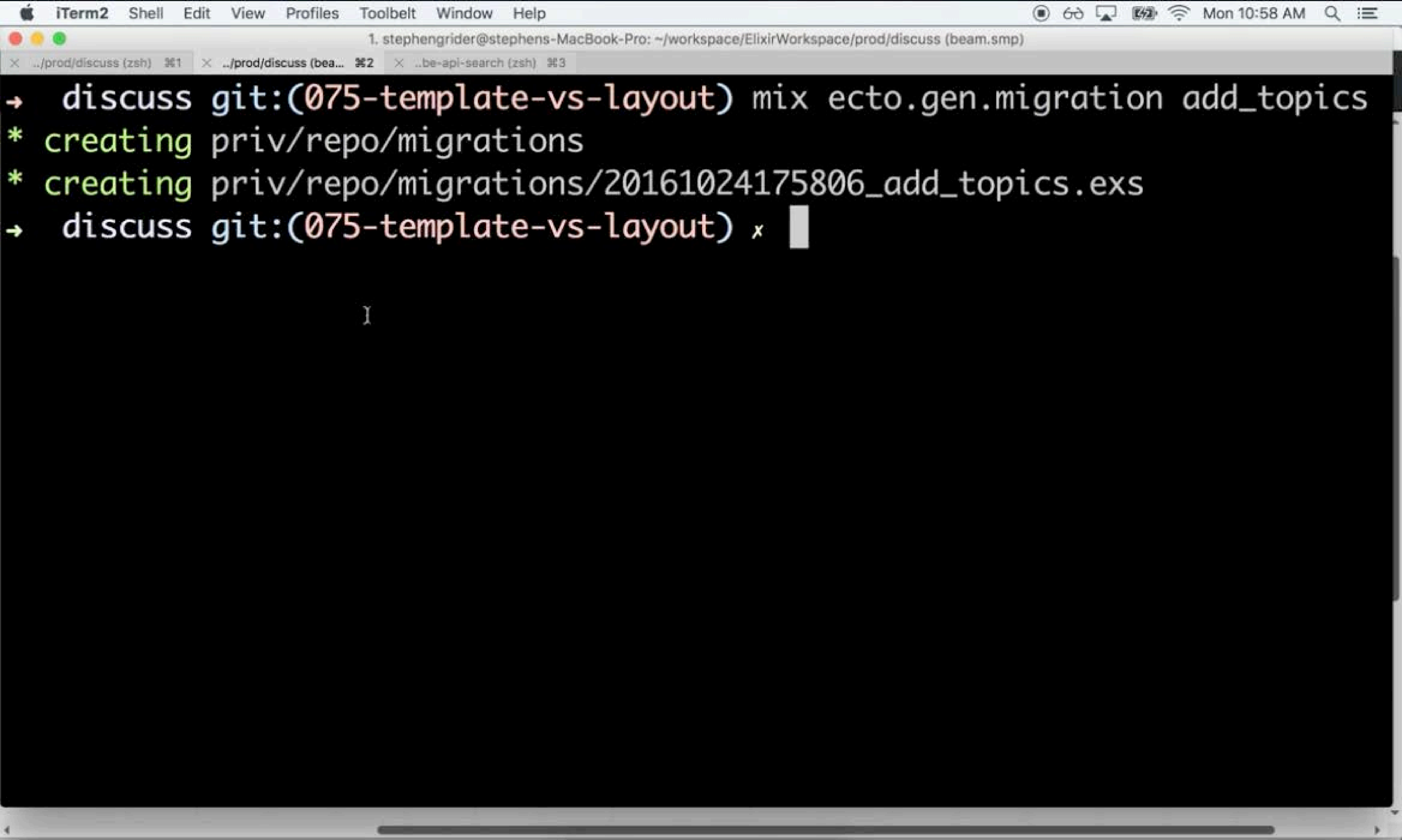
Postgres Land

Table of Topics

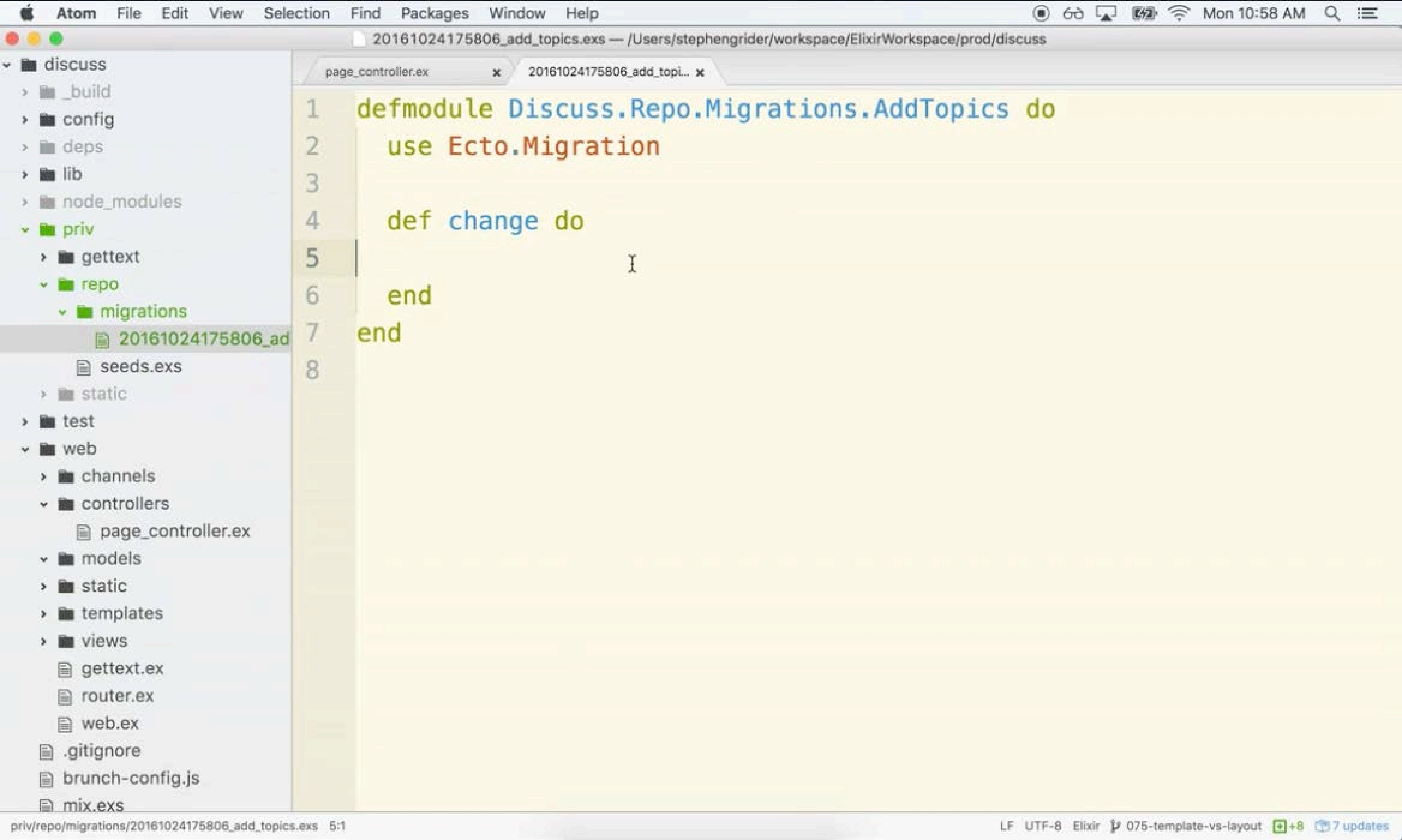
Id	title
0	JS Frameworks
1	Elixir Lang
2	Postgres in Prod?



```
→  discuss git:(075-template-vs-layout)
```

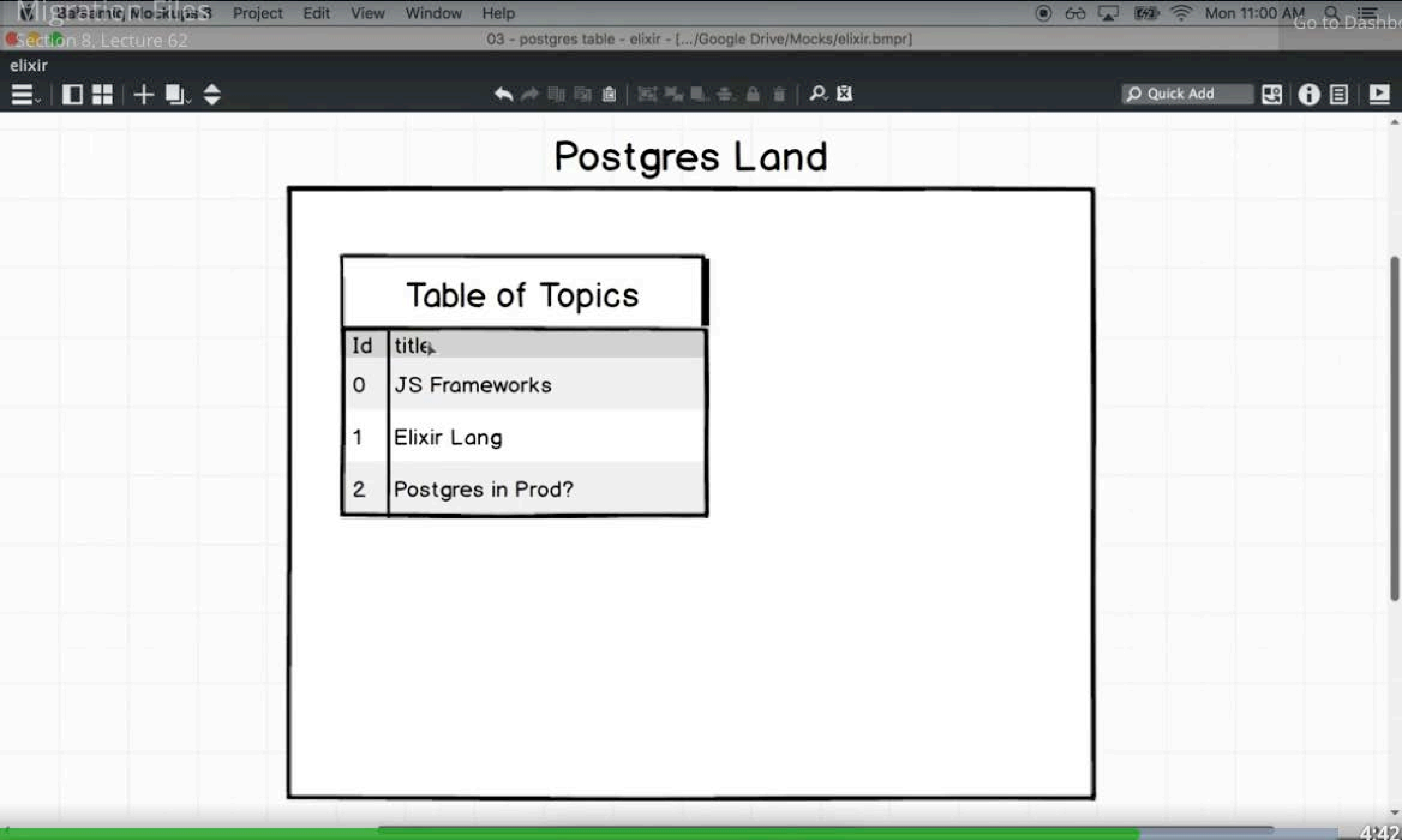

iTerm2
Shell
Edit
View
Profiles
Toolbelt
Window
Help
Mon 10:58 AM
1. stephengrider@stephens-MacBook-Pro: ~/workspace/ElixirWorkspace/prod/discuss (beam.smp)
../prod/discuss (zsh) ⌘1
../prod/discuss (bea... ⌘2
..be-api-search (zsh) ⌘3

```
➜  discuss git:(075-template-vs-layout) mix ecto.gen.migration add_topics
* creating priv/repo/migrations
* creating priv/repo/migrations/20161024175806_add_topics.exs
➜  discuss git:(075-template-vs-layout) ✗
```



Atom File Edit View Selection Find Packages Window Help
Mon 10:58 AM
20161024175806_add_topics.exs — /Users/stephengrider/workspace/ElixirWorkspace/prod/discuss
discuss
_build
config
deps
lib
node_modules
priv
gettext
repo
migrations
20161024175806_ad
seeds.exs
static
test
web
channels
controllers
page_controller.ex
models
static
templates
views
gettext.ex
router.ex
web.ex
.gitignore
brunch-config.js
mix.exs
page_controller.ex
20161024175806_add_topi...
priv/repo/migrations/20161024175806_add_topics.exs 5:1
LF UTF-8 Elixir 075-template-vs-layout +8 7 updates

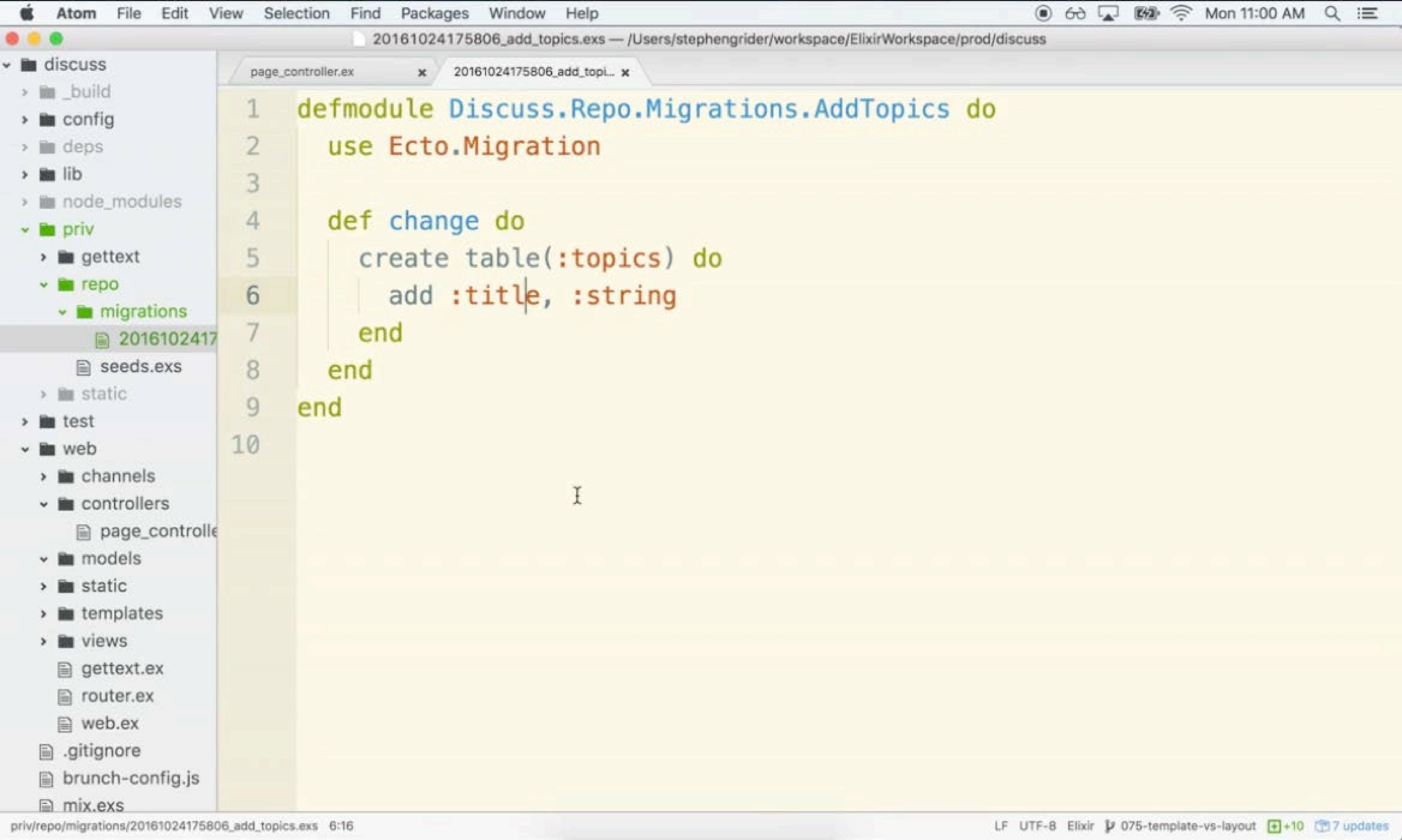
```elixir
defmodule Discuss.Repo.Migrations.AddTopics do
  use Ecto.Migration

  def change do

  end
end
```



Postgres Land

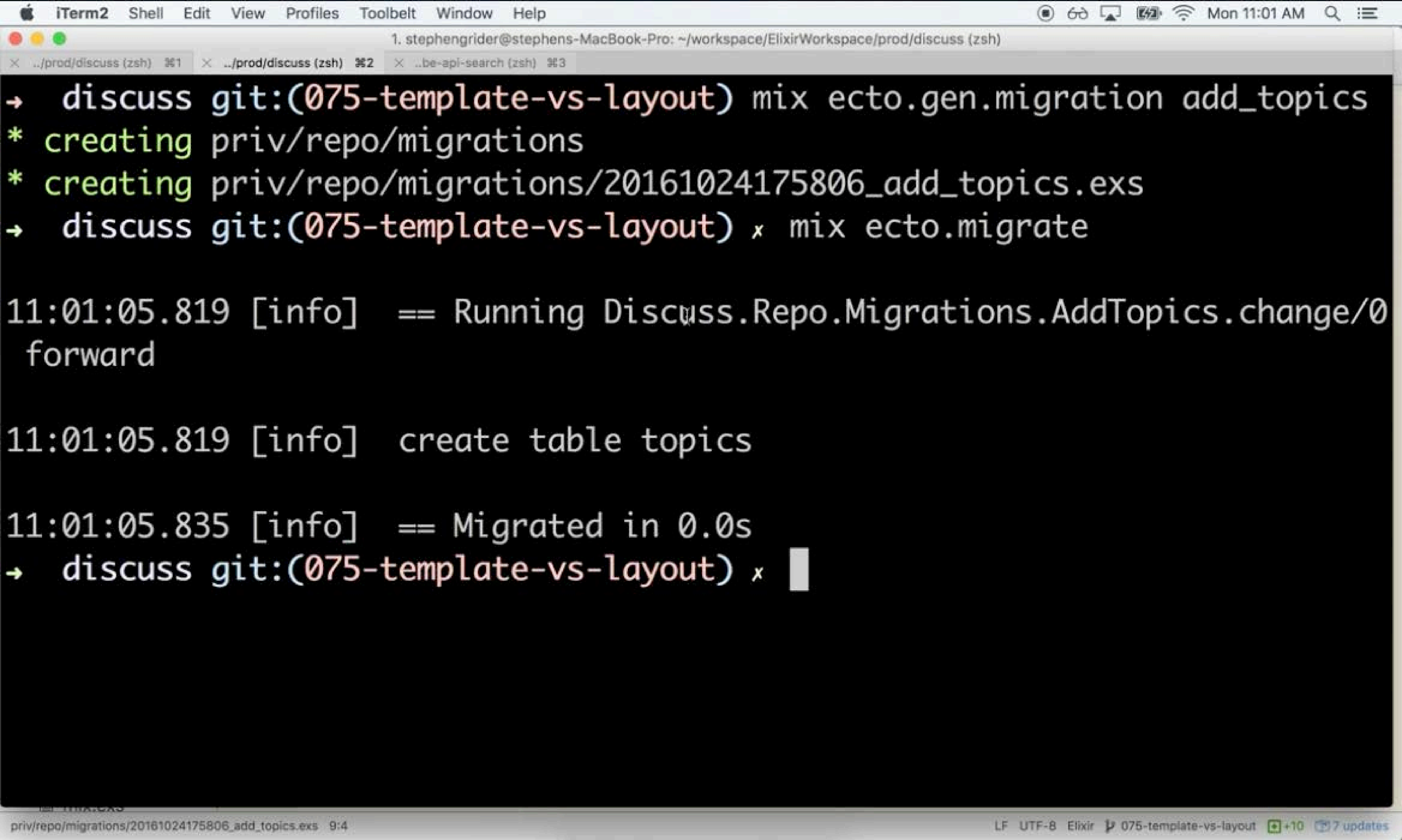
Table of Topics

Id	title
0	JS Frameworks
1	Elixir Lang
2	Postgres in Prod?



Atom File Edit View Selection Find Packages Window Help
Mon 11:00 AM
20161024175806_add_topics.exs — /Users/stephengrider/workspace/ElixirWorkspace/prod/discuss
page_controller.ex
20161024175806_add_topi...
discuss
_build
config
deps
lib
node_modules
priv
gettext
repo
migrations
2016102417
seeds.exs
static
test
web
channels
controllers
page_controlle
models
static
templates
views
gettext.ex
router.ex
web.ex
.gitignore
brunch-config.js
mix.exs
priv/repo/migrations/20161024175806_add_topics.exs 6:16
LF UTF-8 Elixir 075-template-vs-layout +10 7 updates

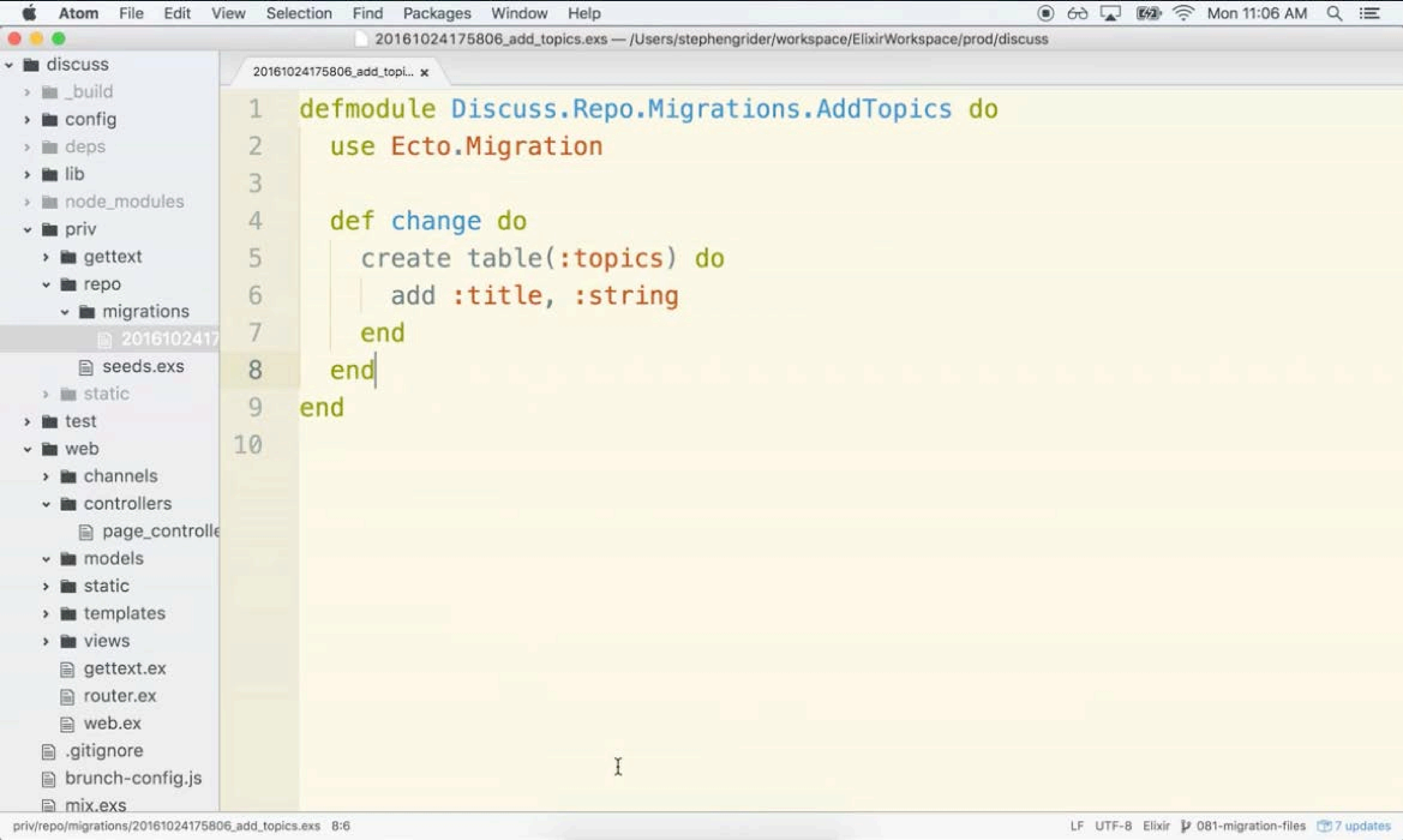
```elixir
defmodule Discuss.Repo.Migrations.AddTopics do
  use Ecto.Migration

  def change do
    create table(:topics) do
      add :title, :string
    end
  end
end
```



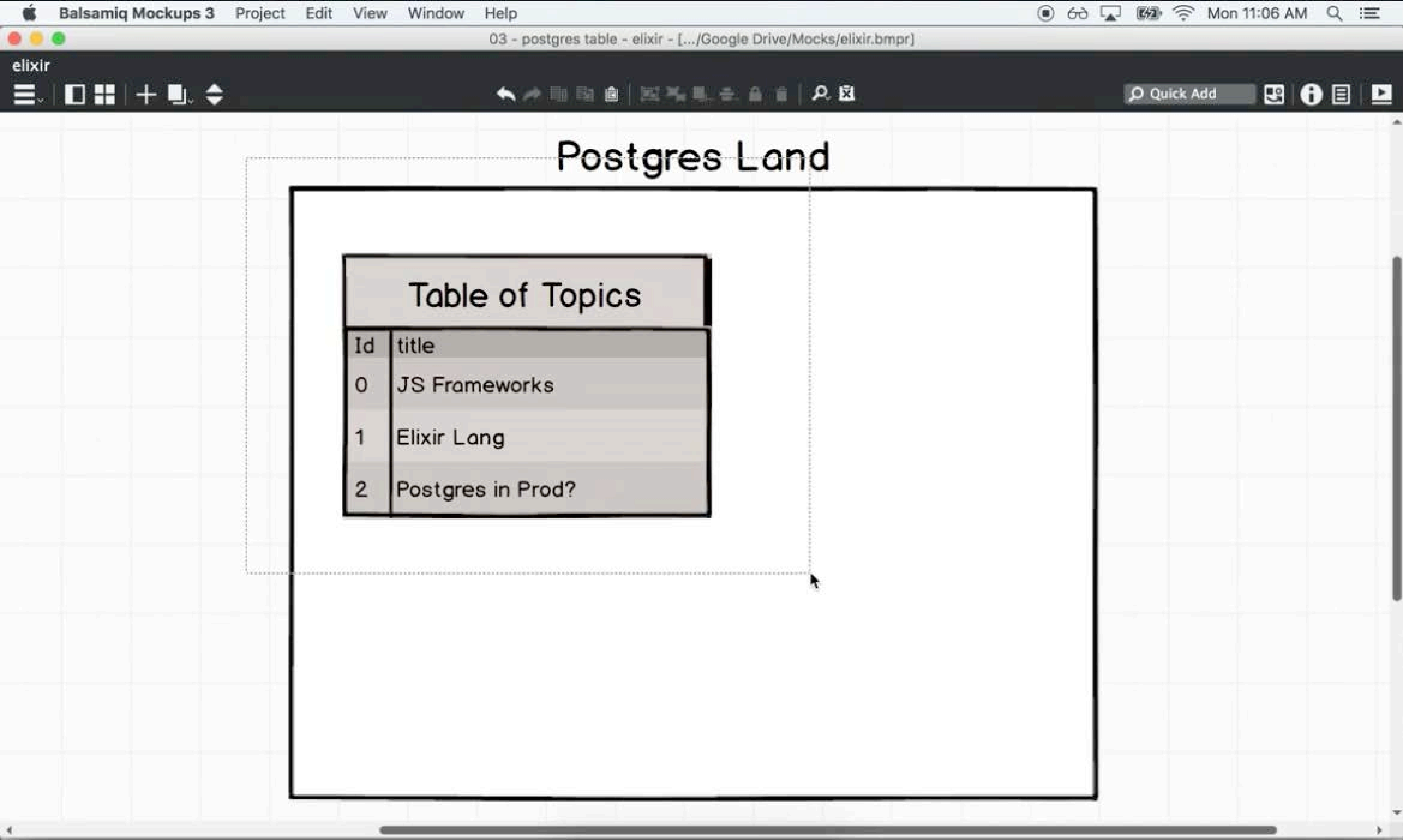
iTerm2 Shell Edit View Profiles Toolbelt Window Help
Mon 11:01 AM
1. stephengrider@stephens-MacBook-Pro: ~/workspace/ElixirWorkspace/prod/discuss (zsh)
../prod/discuss (zsh) ⌘1
../prod/discuss (zsh) ⌘2
..be-api-search (zsh) ⌘3

```
→  discuss git:(075-template-vs-layout) mix ecto.gen.migration add_topics
* creating priv/repo/migrations
* creating priv/repo/migrations/20161024175806_add_topics.exs
→  discuss git:(075-template-vs-layout) ✗ mix ecto.migrate

11:01:05.819 [info]  == Running Discuss.Repo.Migrations.AddTopics.change/0
 forward

11:01:05.819 [info]  create table topics

11:01:05.835 [info]  == Migrated in 0.0s
→  discuss git:(075-template-vs-layout) ✗ 
```

priv/repo/migrations/20161024175806_add_topics.exs 9:4
LF UTF-8 Elixir 075-template-vs-layout +10 7 updates



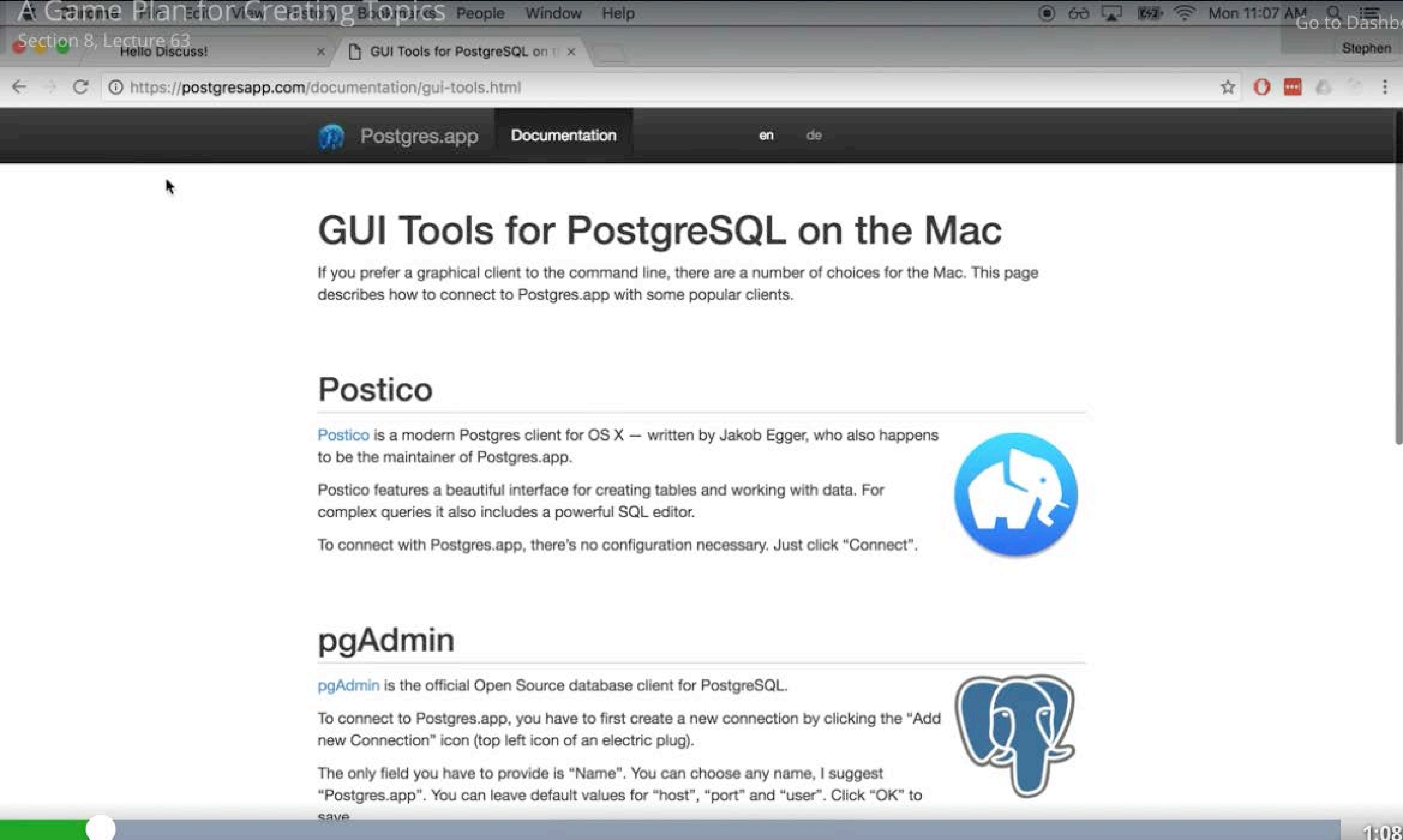
```elixir
defmodule Discuss.Repo.Migrations.AddTopics do
  use Ecto.Migration

  def change do
    create table(:topics) do
      add :title, :string
    end
  end
end
```



Postgres Land

Table of Topics

Id	title
0	JS Frameworks
1	Elixir Lang
2	Postgres in Prod?


A Game Plan for Creating Topics
Section 8, Lecture 63
Go to Dashb
Chrome File Edit View History Bookmarks People Window Help
Mon 11:07 AM
Stephen
Hello Discuss!
GUI Tools for PostgreSQL on t
https://postgresapp.com/documentation/gui-tools.html
Postgres.app
Documentation
en
de
1:08

GUI Tools for PostgreSQL on the Mac

If you prefer a graphical client to the command line, there are a number of choices for the Mac. This page describes how to connect to Postgres.app with some popular clients.

Postico

Postico is a modern Postgres client for OS X — written by Jakob Egger, who also happens to be the maintainer of Postgres.app.

Postico features a beautiful interface for creating tables and working with data. For complex queries it also includes a powerful SQL editor.

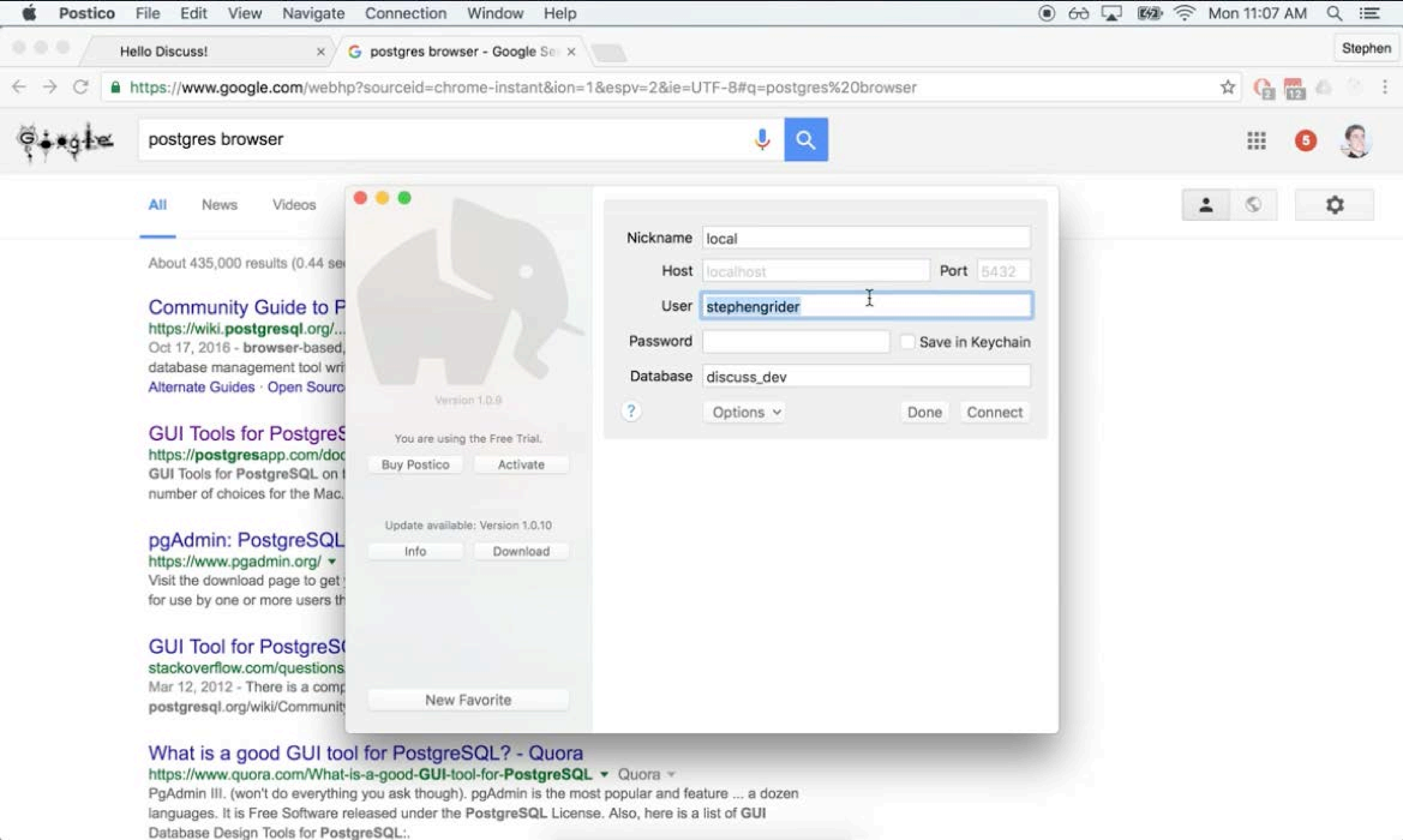
To connect with Postgres.app, there's no configuration necessary. Just click "Connect".

pgAdmin

pgAdmin is the official Open Source database client for PostgreSQL.

To connect to Postgres.app, you have to first create a new connection by clicking the "Add new Connection" icon (top left icon of an electric plug).

The only field you have to provide is "Name". You can choose any name, I suggest "Postgres.app". You can leave default values for "host", "port" and "user". Click "OK" to save.


Postico File Edit View Navigate Connection Window Help
Mon 11:07 AM
Hello Discuss!
postgres browser - Google Se
Stephen
https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#q=postgres%20browser
postgres browser
5
All
News
Videos
Version 1.0.9
You are using the Free Trial.
Buy Postico
Activate
Update available: Version 1.0.10
Info
Download
New Favorite
Options
Done
Connect

Nickname: local

Host: localhost Port: 5432

User: stephengrider

Password: □ Save in Keychain

Database: discuss_dev

About 435,000 results (0.44 se

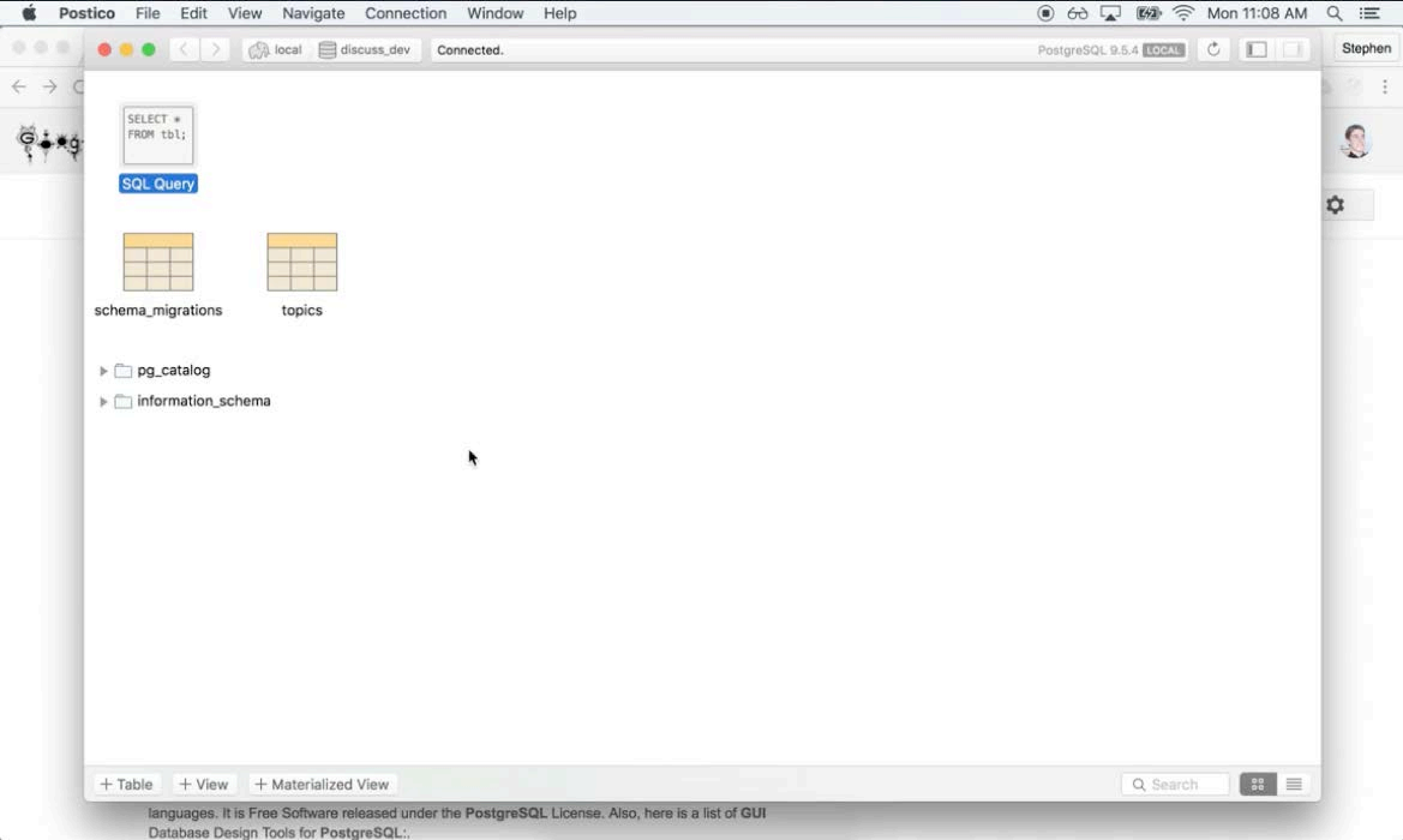
Community Guide to P
https://wiki.postgresql.org/...
Oct 17, 2016 - browser-based,
database management tool wri
Alternate Guides · Open Sourc

GUI Tools for Postgre
https://postgresapp.com/doc
GUI Tools for PostgreSQL on t
number of choices for the Mac.

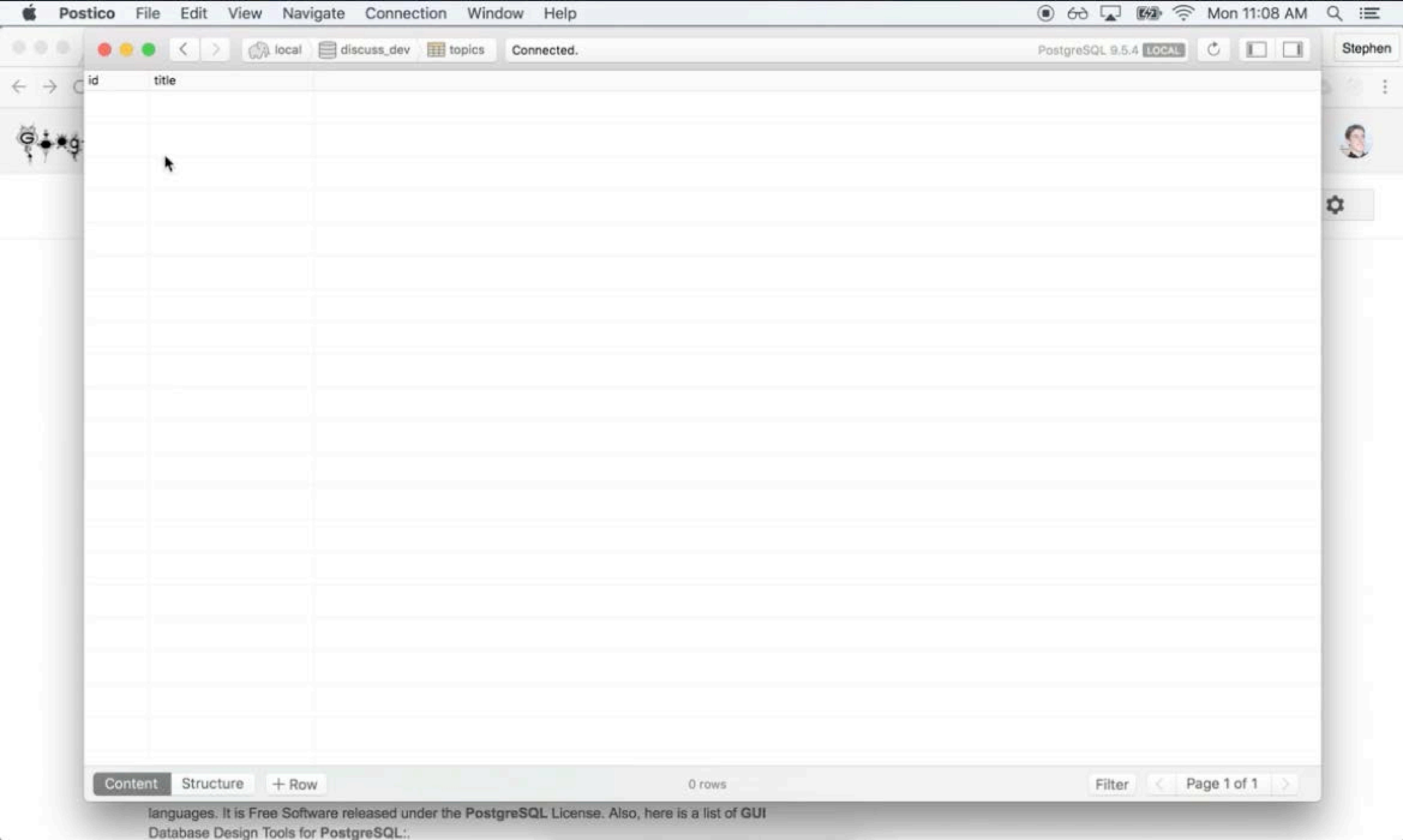
pgAdmin: PostgreSQL
https://www.pgadmin.org/
Visit the download page to get
for use by one or more users th

GUI Tool for PostgreS
stackoverflow.com/questions
Mar 12, 2012 - There is a comp
postgresql.org/wiki/Communit

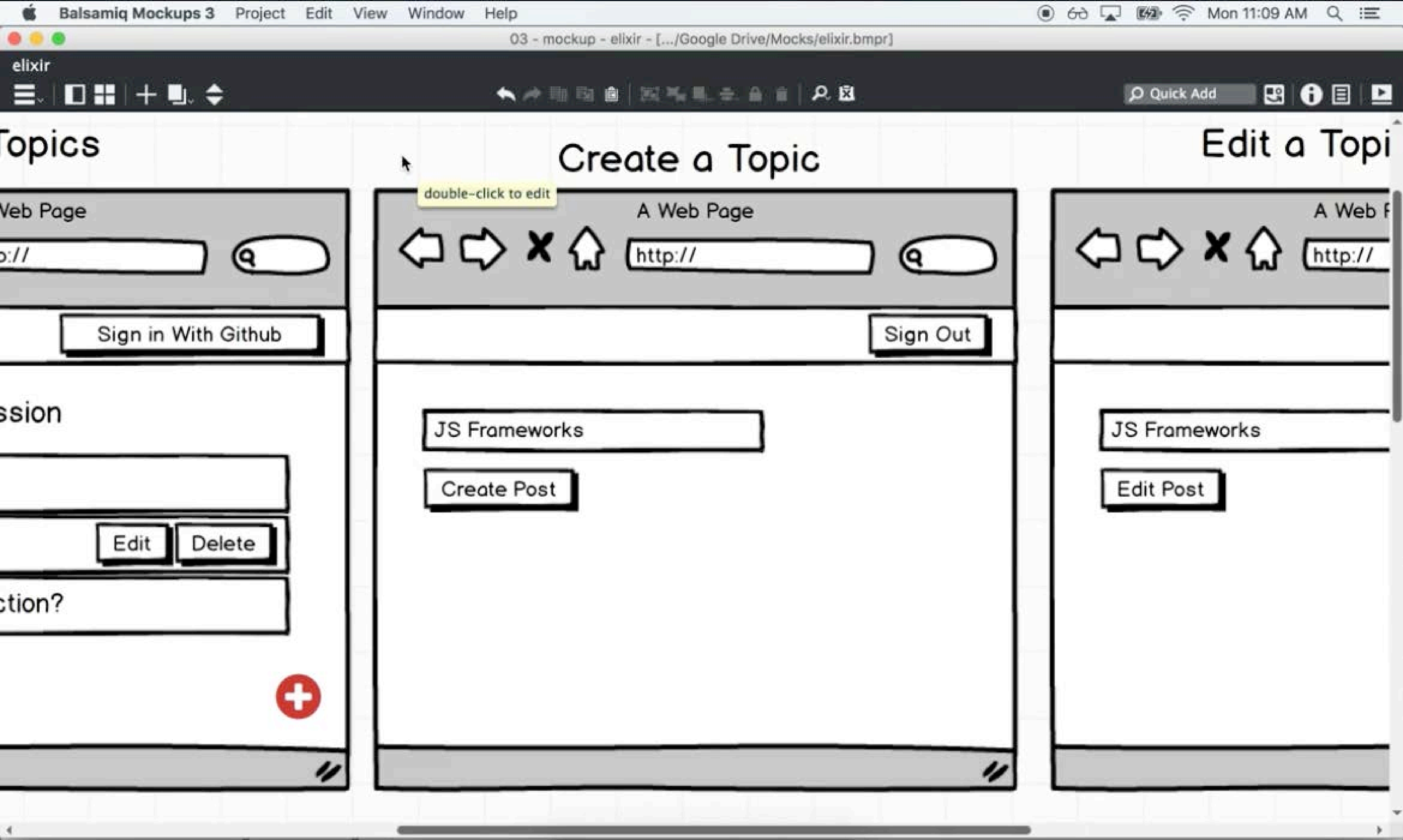
What is a good GUI tool for PostgreSQL? - Quora
https://www.quora.com/What-is-a-good-GUI-tool-for-PostgreSQL Quora
PgAdmin III. (won't do everything you ask though). pgAdmin is the most popular and feature ... a dozen languages. It is Free Software released under the PostgreSQL License. Also, here is a list of GUI Database Design Tools for PostgreSQL:.

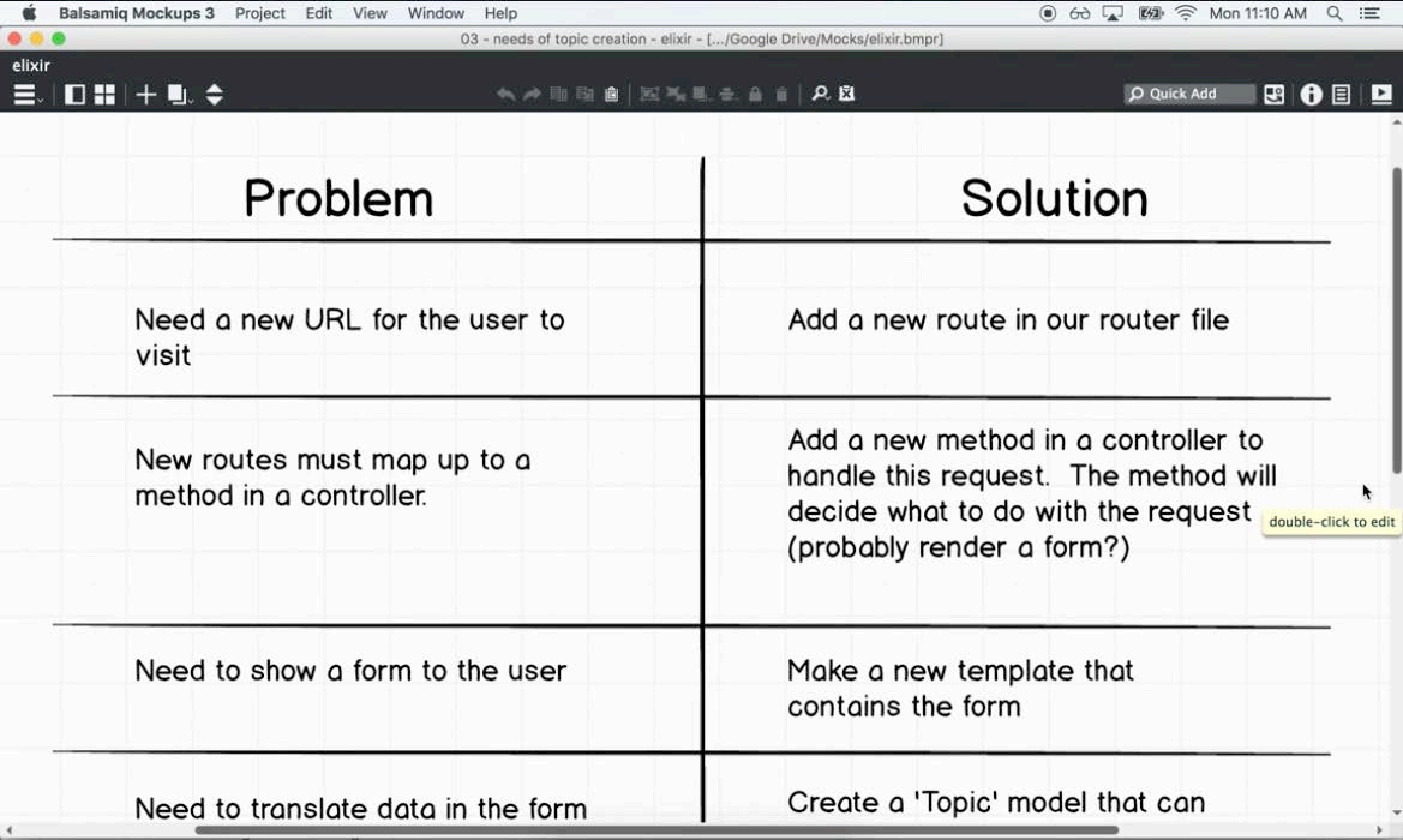


languages. It is Free Software released under the **PostgreSQL** License. Also, here is a list of **GUI** Database Design Tools for **PostgreSQL**:.

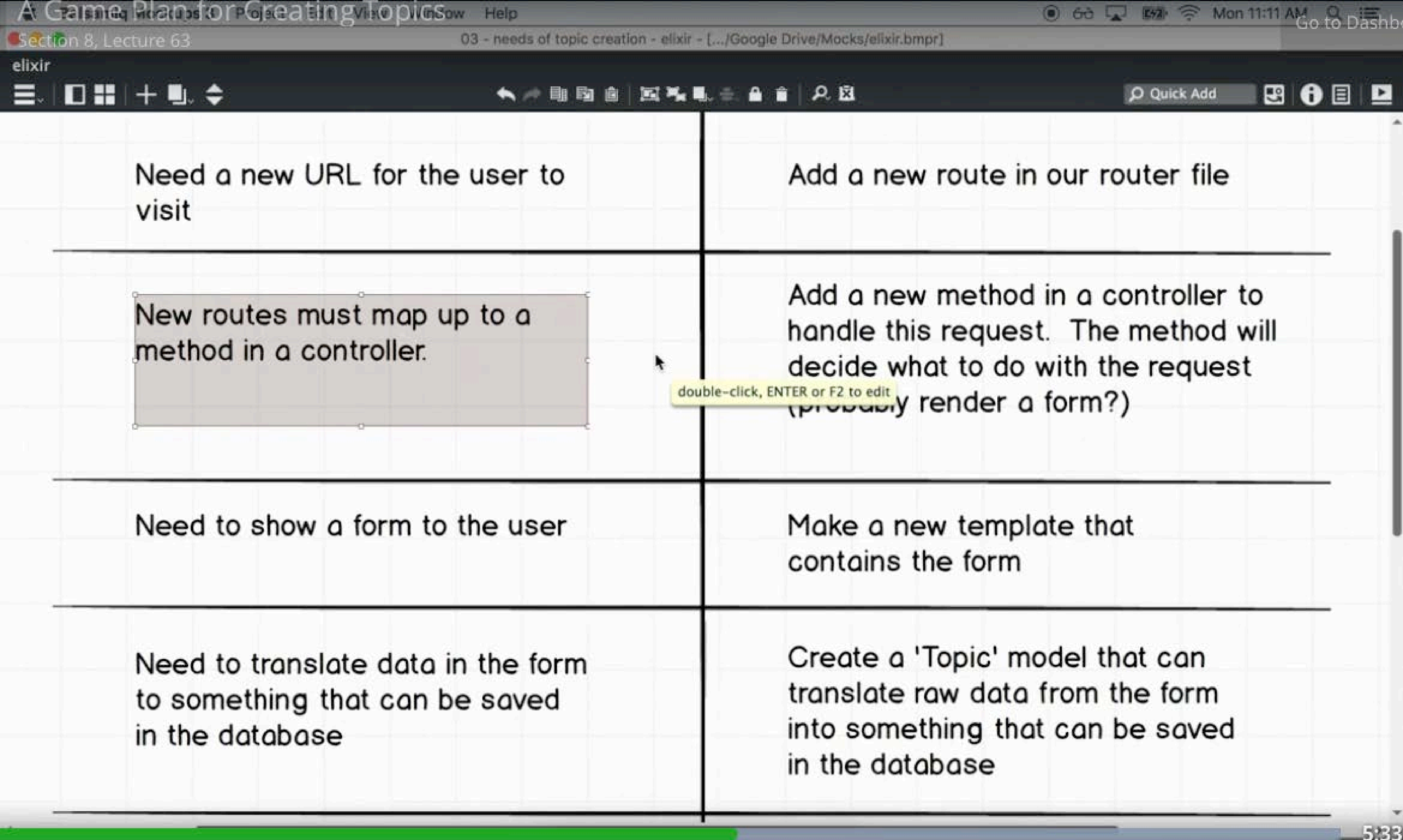


languages. It is Free Software released under the **PostgreSQL** License. Also, here is a list of **GUI** Database Design Tools for **PostgreSQL**:.

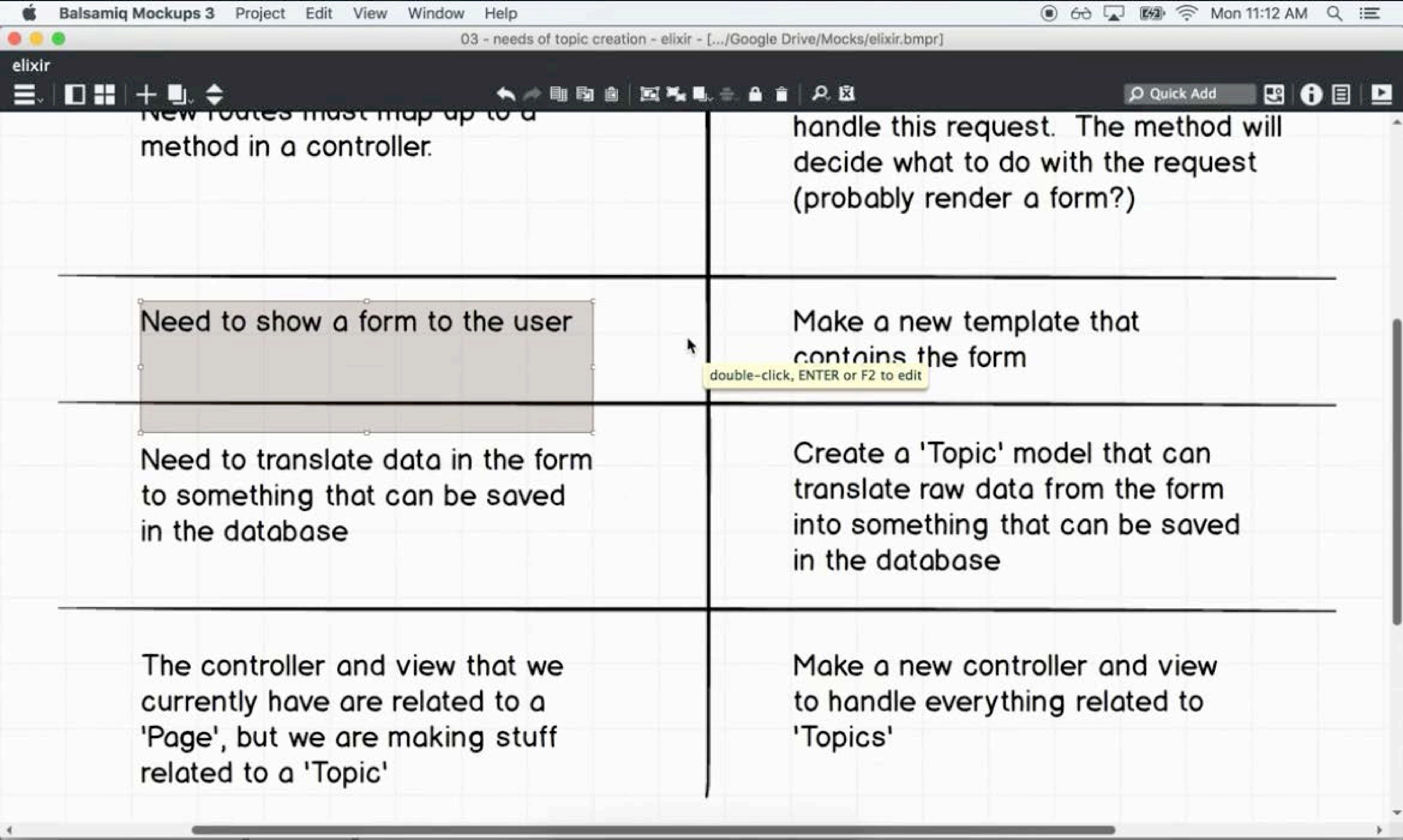

Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 11:09 AM
03 - mockup - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
Topics
Create a Topic
Edit a Topi
double-click to edit
Veb Page
A Web Page
A Web F
o://
http://
http://
Sign in With Github
Sign Out
ssion
Edit
Delete
ction?
JS Frameworks
Create Post
JS Frameworks
Edit Post



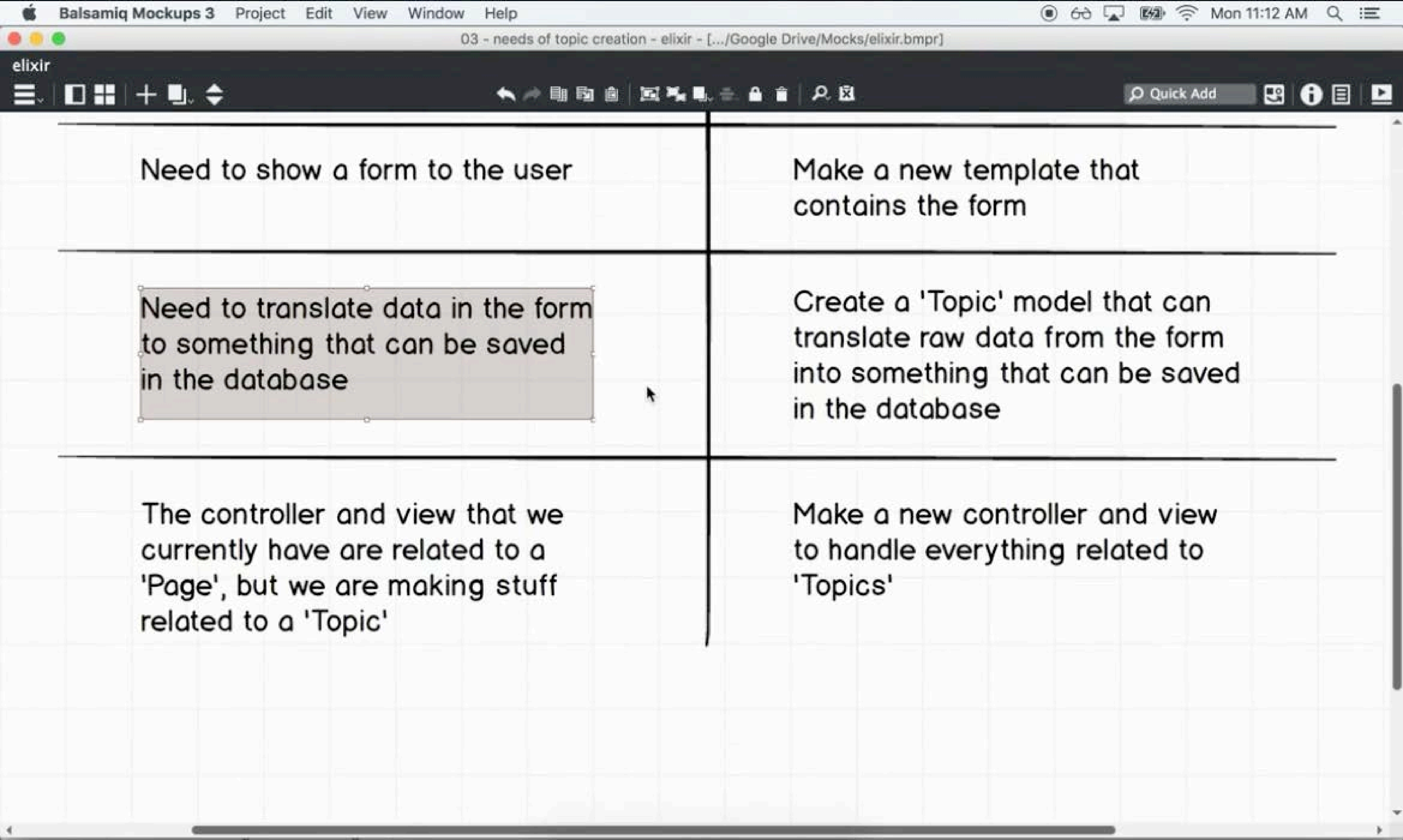
Problem	Solution
Need a new URL for the user to visit	Add a new route in our router file
New routes must map up to a method in a controller.	Add a new method in a controller to handle this request. The method will decide what to do with the request (probably render a form?)
Need to show a form to the user	Make a new template that contains the form
Need to translate data in the form	Create a 'Topic' model that can


A Game Plan for Creating Topics
Section 8, Lecture 63
Balsamiq Mockups 3 Project Edit View Window Help
Mon 11:11 AM
Go to Dashb
03 - needs of topic creation - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
double-click, ENTER or F2 to edit
5:33

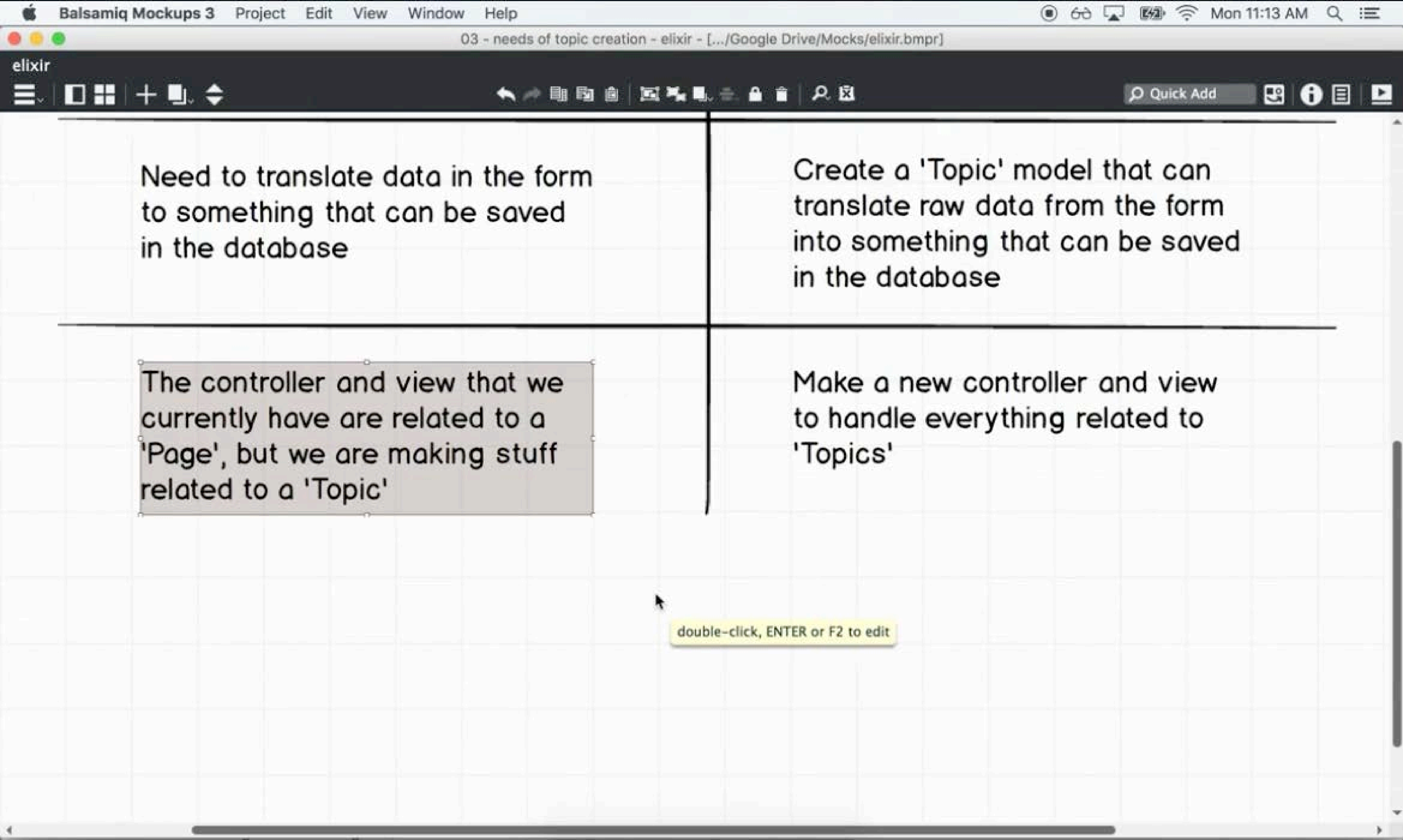
Need a new URL for the user to visit	Add a new route in our router file
New routes must map up to a method in a controller.	Add a new method in a controller to handle this request. The method will decide what to do with the request (probably render a form?)
Need to show a form to the user	Make a new template that contains the form
Need to translate data in the form to something that can be saved in the database	Create a 'Topic' model that can translate raw data from the form into something that can be saved in the database


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 11:12 AM
03 - needs of topic creation - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
double-click, ENTER or F2 to edit

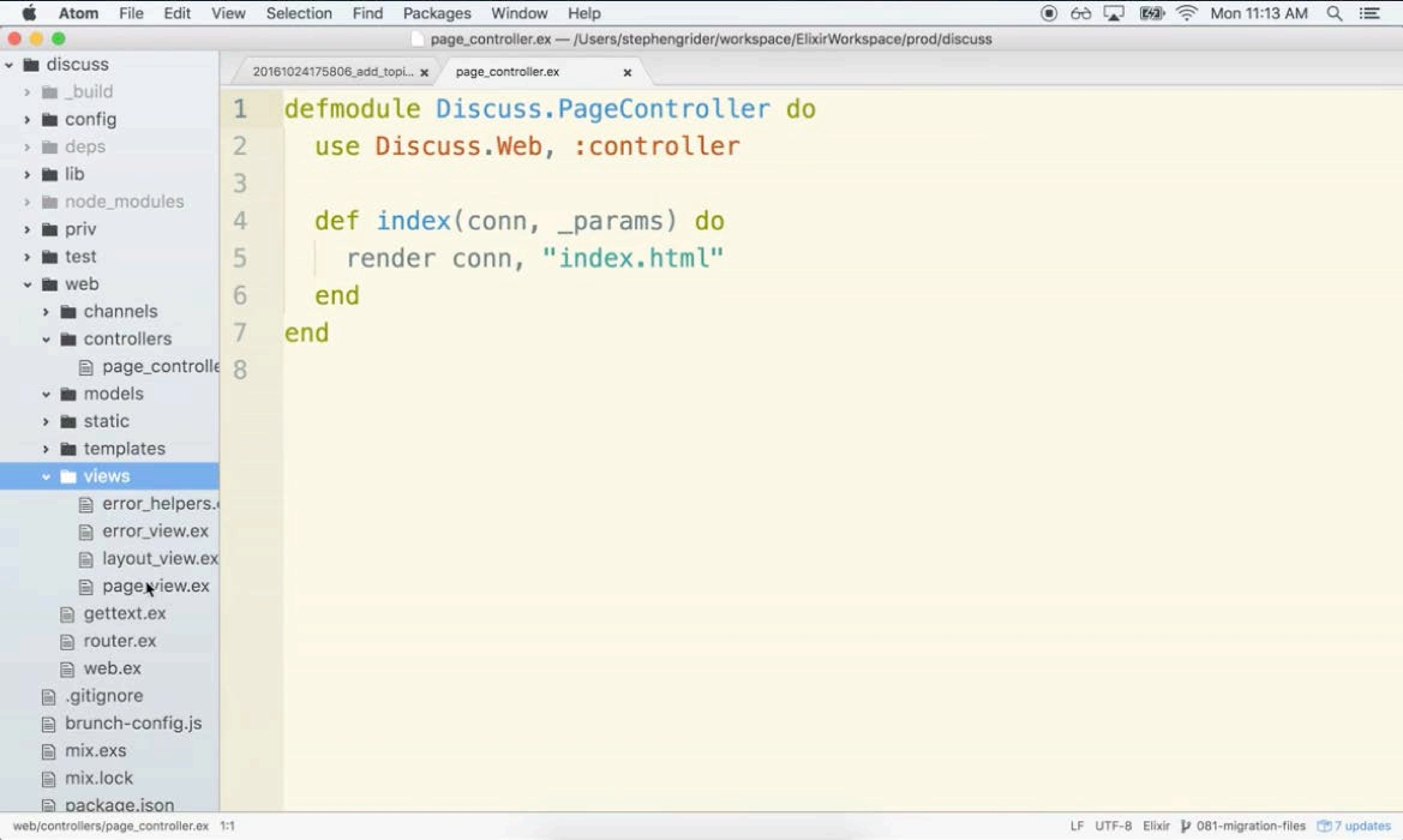
New routes must map up to a method in a controller.	handle this request. The method will decide what to do with the request (probably render a form?)
Need to show a form to the user	Make a new template that contains the form
Need to translate data in the form to something that can be saved in the database	Create a 'Topic' model that can translate raw data from the form into something that can be saved in the database
The controller and view that we currently have are related to a 'Page', but we are making stuff related to a 'Topic'	Make a new controller and view to handle everything related to 'Topics'


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 11:12 AM
03 - needs of topic creation - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add

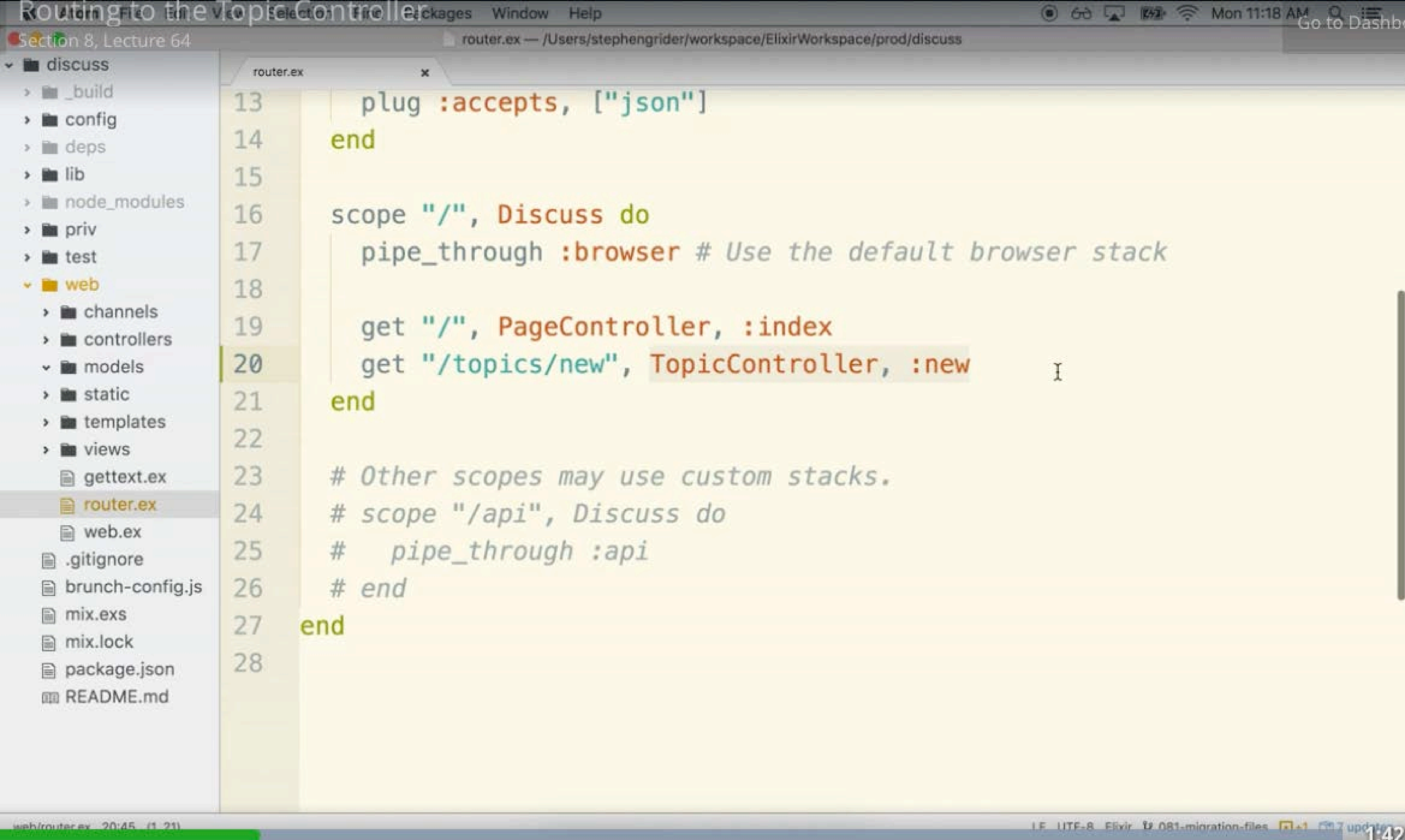
Need to show a form to the user	Make a new template that contains the form
Need to translate data in the form to something that can be saved in the database	Create a 'Topic' model that can translate raw data from the form into something that can be saved in the database
The controller and view that we currently have are related to a 'Page', but we are making stuff related to a 'Topic'	Make a new controller and view to handle everything related to 'Topics'


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 11:13 AM
03 - needs of topic creation - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add
double-click, ENTER or F2 to edit

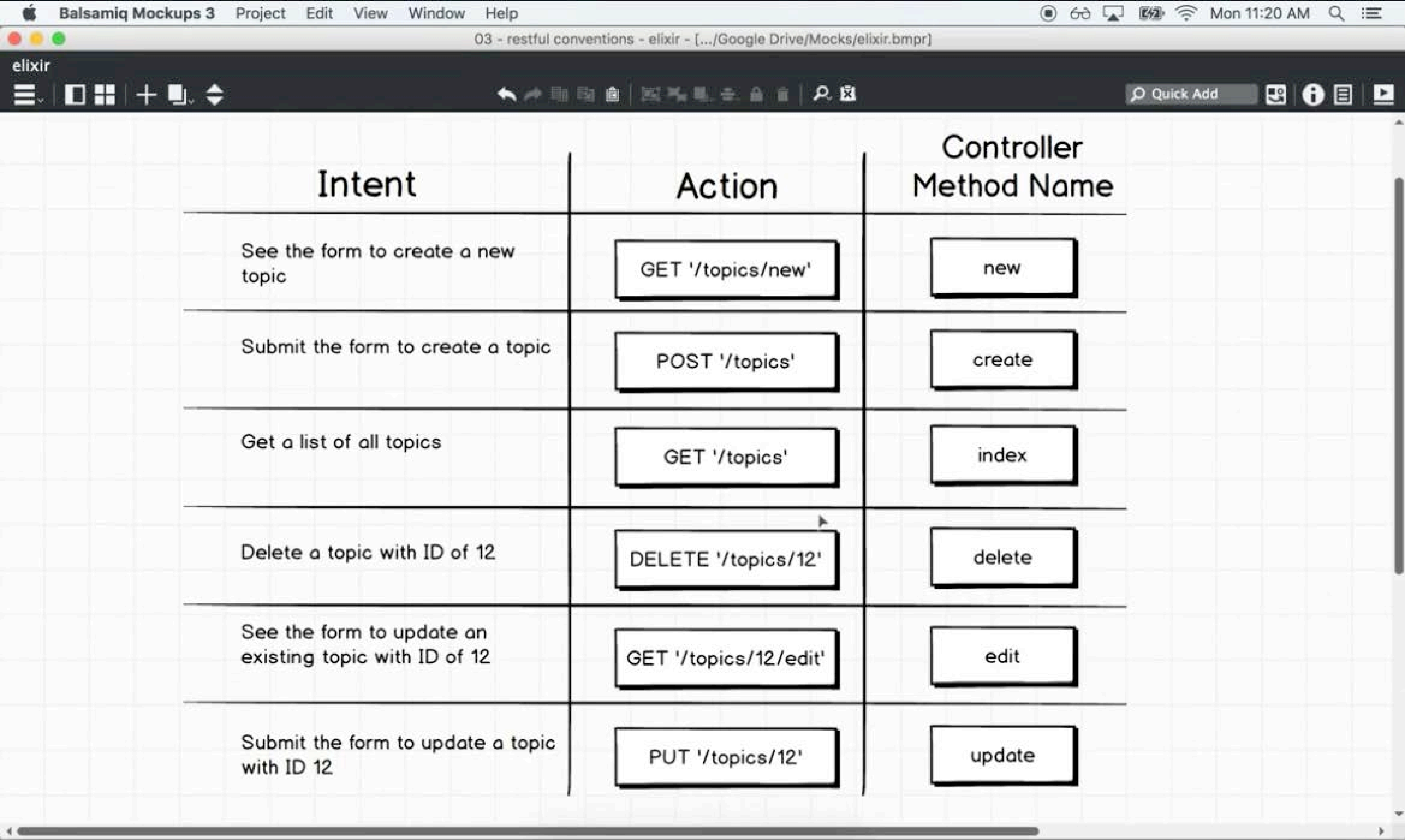
Need to translate data in the form to something that can be saved in the database	Create a 'Topic' model that can translate raw data from the form into something that can be saved in the database
The controller and view that we currently have are related to a 'Page', but we are making stuff related to a 'Topic'	Make a new controller and view to handle everything related to 'Topics'



```
defmodule Discuss.PageController do
  use Discuss.Web, :controller

  def index(conn, _params) do
    render conn, "index.html"
  end
end

```

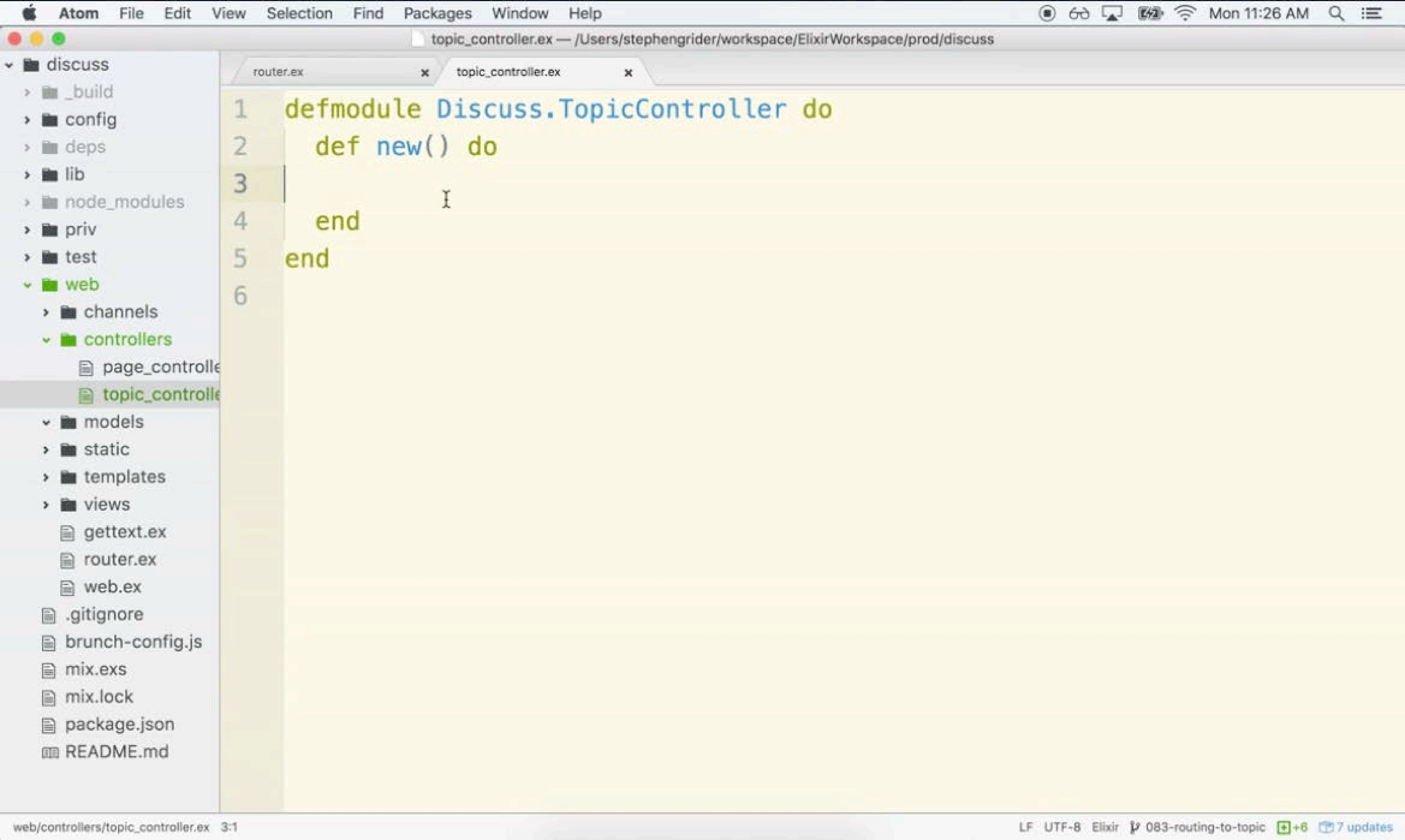


```
    plug :accepts, ["json"]
  end

  scope "/", Discuss do
    pipe_through :browser # Use the default browser stack

    get "/", PageController, :index
    get "/topics/new", TopicController, :new
  end

  # Other scopes may use custom stacks.
  # scope "/api", Discuss do
  #   pipe_through :api
  # end
end

```

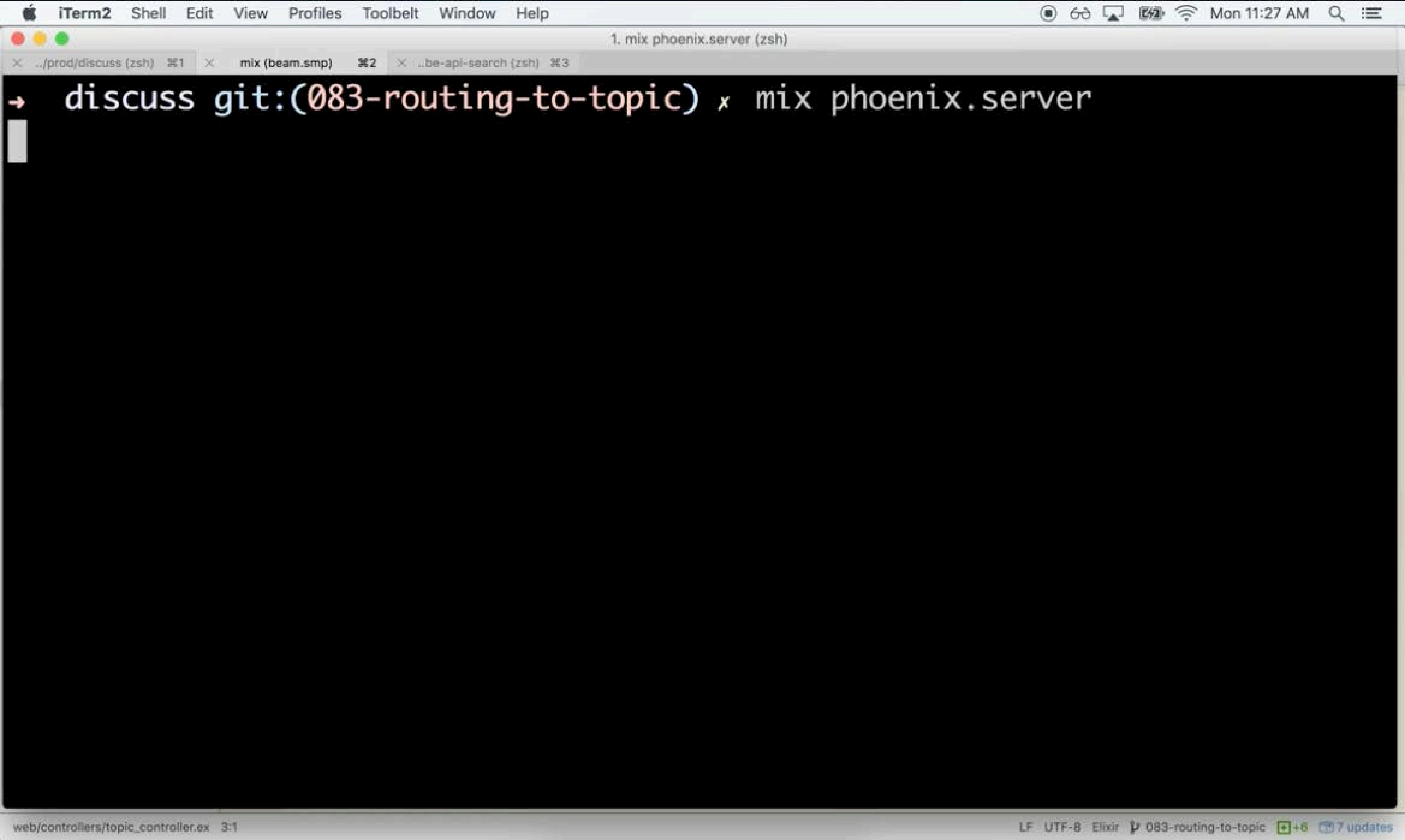


03 - restful conventions - elixir - [.../Google Drive/Mocks/elixir.bmpr]

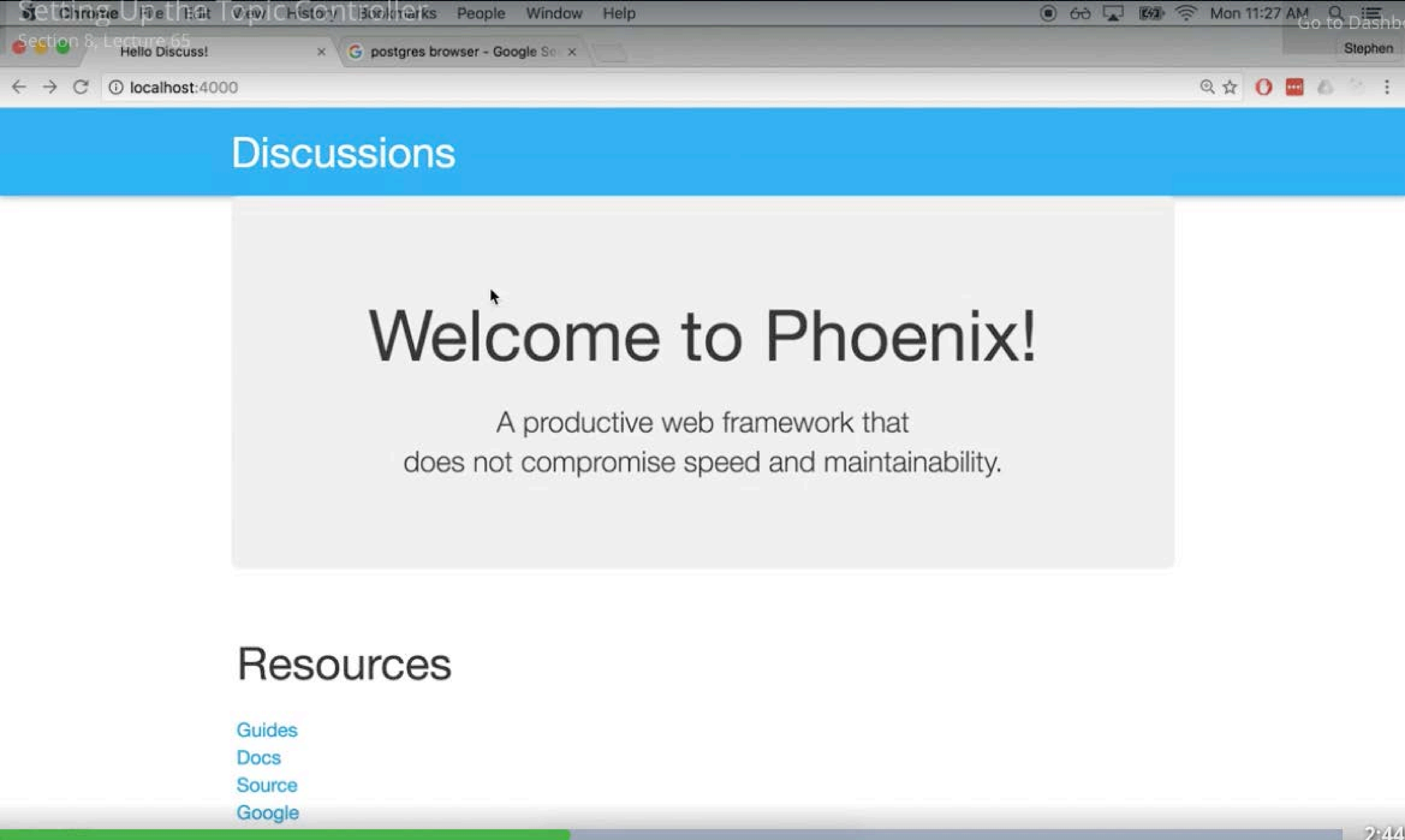
Intent	Action	Controller Method Name
See the form to create a new topic	GET '/topics/new'	new
Submit the form to create a topic	POST '/topics'	create
Get a list of all topics	GET '/topics'	index
Delete a topic with ID of 12	DELETE '/topics/12'	delete
See the form to update an existing topic with ID of 12	GET '/topics/12/edit'	edit
Submit the form to update a topic with ID 12	PUT '/topics/12'	update



```elixir
defmodule Discuss.TopicController do
  def new() do

  end
end

```


iTerm2 Shell Edit View Profiles Toolbelt Window Help
Mon 11:27 AM
1. mix phoenix.server (zsh)
../prod/discuss (zsh) ⌘1
mix (beam.smp) ⌘2
..be-api-search (zsh) ⌘3
web/controllers/topic_controller.ex 3:1
LF UTF-8 Elixir 083-routing-to-topic +6 7 updates

```
➜  discuss git:(083-routing-to-topic) ✗ mix phoenix.server
```



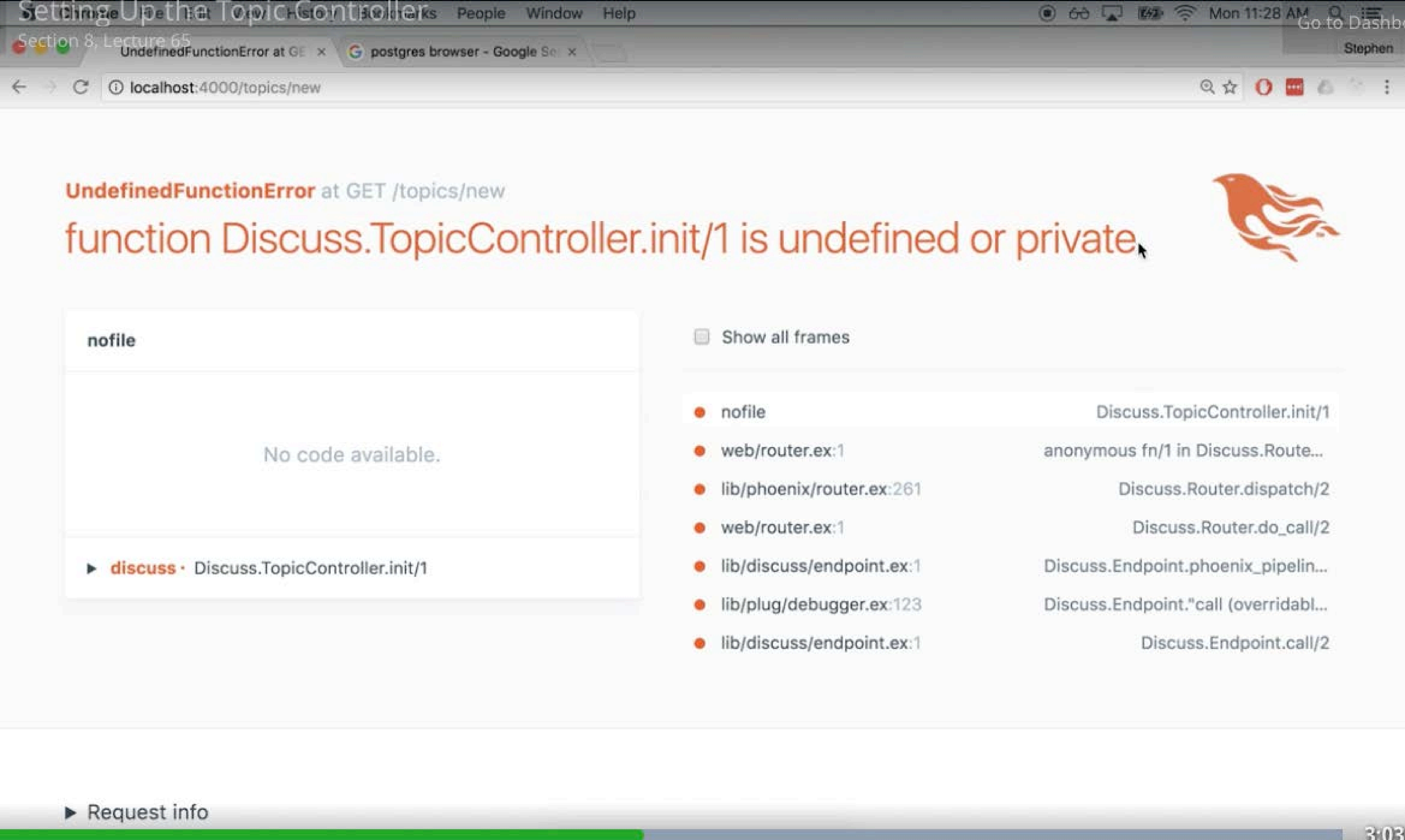
Discussions

Welcome to Phoenix!

A productive web framework that
does not compromise speed and maintainability.

Resources

Guides
Docs
Source
Google


Setting Up the Topic Controller
Section 8, Lecture 65
Go to Dashb
Chrome File Edit View History Bookmarks People Window Help
Mon 11:28 AM
Stephen
UndefinedFunctionError at GE
postgres browser - Google Se
localhost:4000/topics/new
3:03

UndefinedFunctionError at GET /topics/new

function Discuss.TopicController.init/1 is undefined or private

nofile

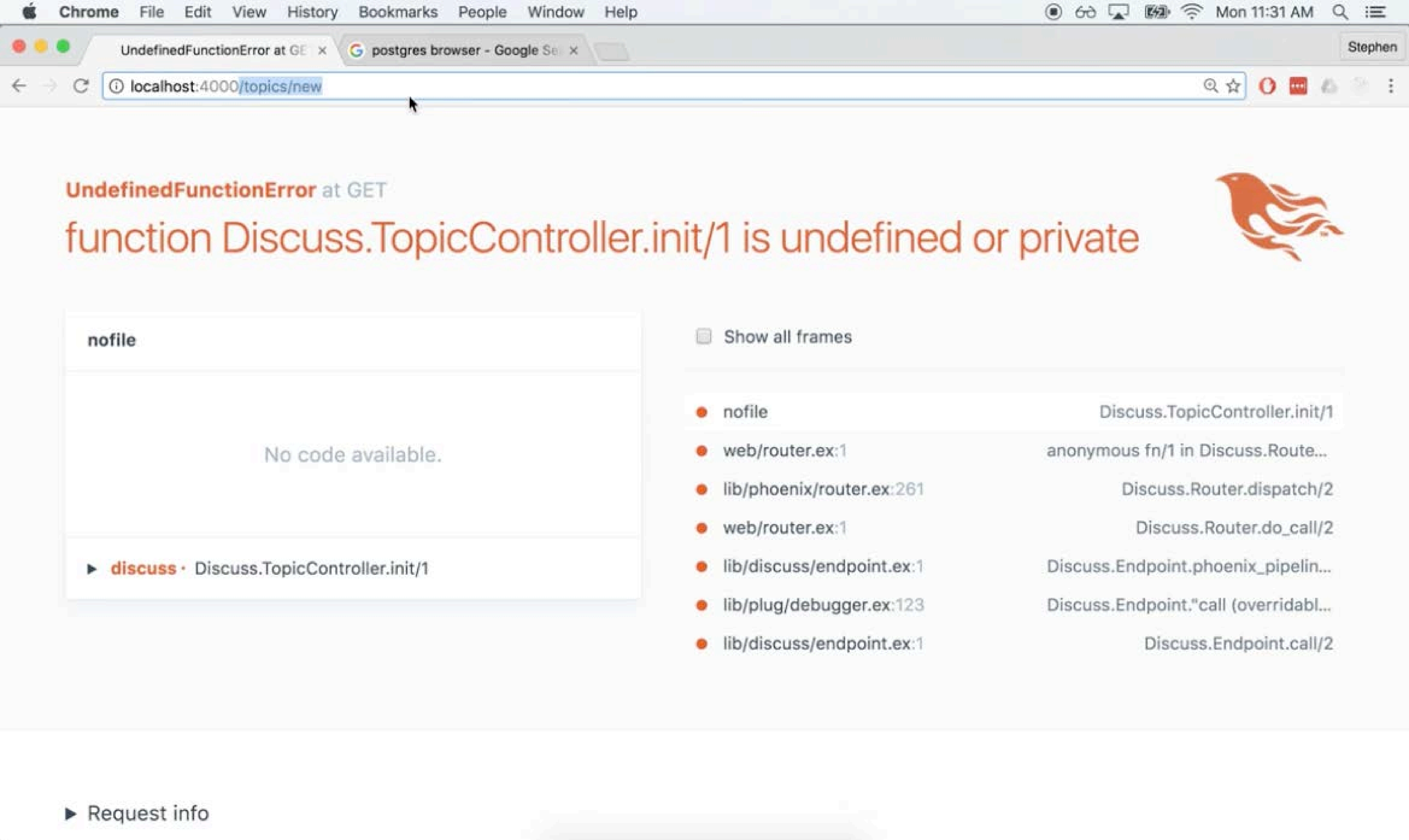
No code available.

▸ **discuss** · Discuss.TopicController.init/1

□ Show all frames

```
● nofile                          Discuss.TopicController.init/1
● web/router.ex:1                 anonymous fn/1 in Discuss.Route...
● lib/phoenix/router.ex:261       Discuss.Router.dispatch/2
● web/router.ex:1                 Discuss.Router.do_call/2
● lib/discuss/endpoint.ex:1       Discuss.Endpoint.phoenix_pipelin...
● lib/plug/debugger.ex:123        Discuss.Endpoint."call (overridabl...
● lib/discuss/endpoint.ex:1       Discuss.Endpoint.call/2
```

▸ Request info



Chrome File Edit View History Bookmarks People Window Help
Mon 11:31 AM
UndefinedFunctionError at GE
postgres browser - Google Se
Stephen
localhost:4000/topics/new

UndefinedFunctionError at GET

function Discuss.TopicController.init/1 is undefined or private

nofile

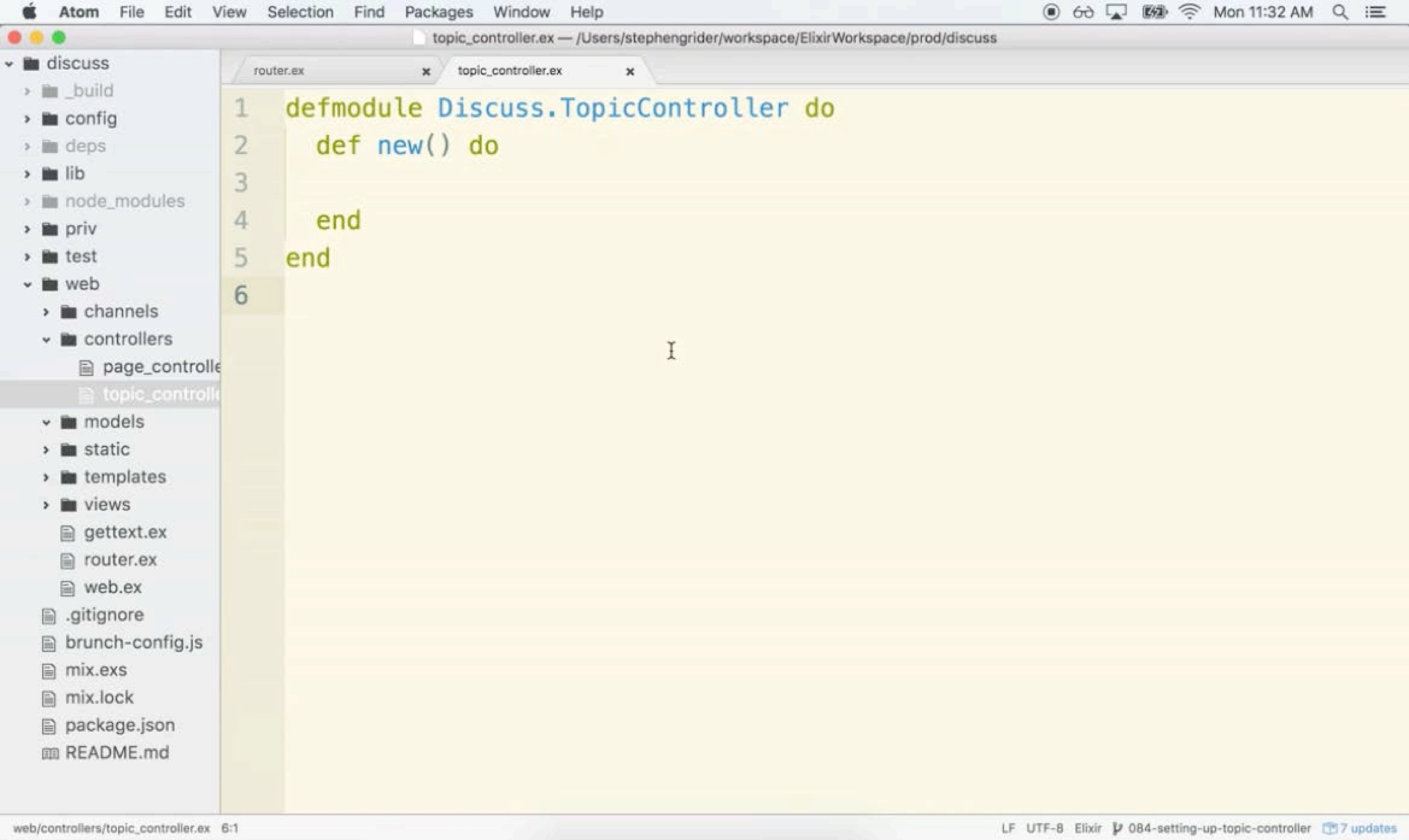
No code available.

▶ discuss • Discuss.TopicController.init/1

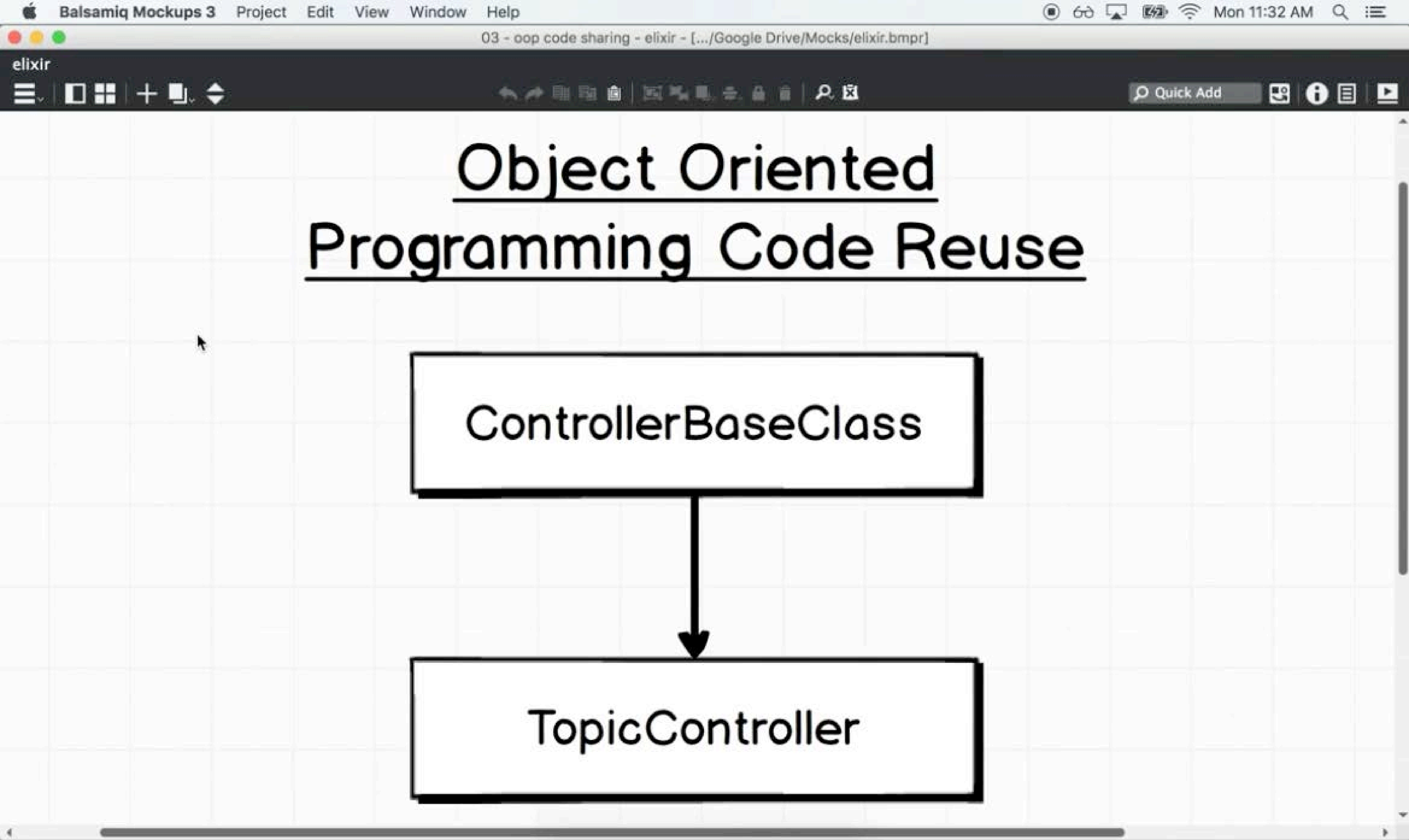
□ Show all frames

```
● nofile                        Discuss.TopicController.init/1
● web/router.ex:1               anonymous fn/1 in Discuss.Route...
● lib/phoenix/router.ex:261     Discuss.Router.dispatch/2
● web/router.ex:1               Discuss.Router.do_call/2
● lib/discuss/endpoint.ex:1     Discuss.Endpoint.phoenix_pipelin...
● lib/plug/debugger.ex:123      Discuss.Endpoint."call (overridabl...
● lib/discuss/endpoint.ex:1     Discuss.Endpoint.call/2
```

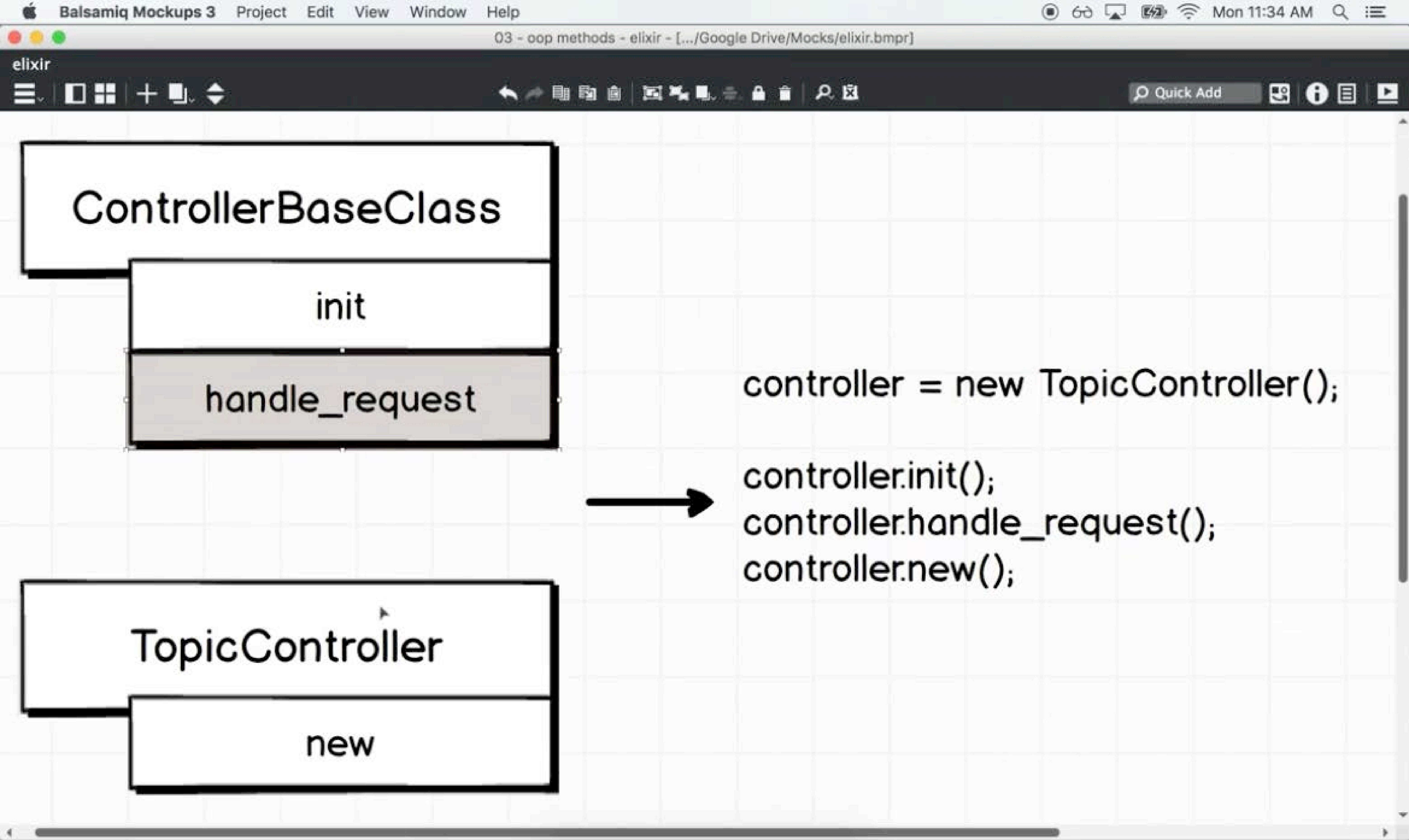
▶ Request info



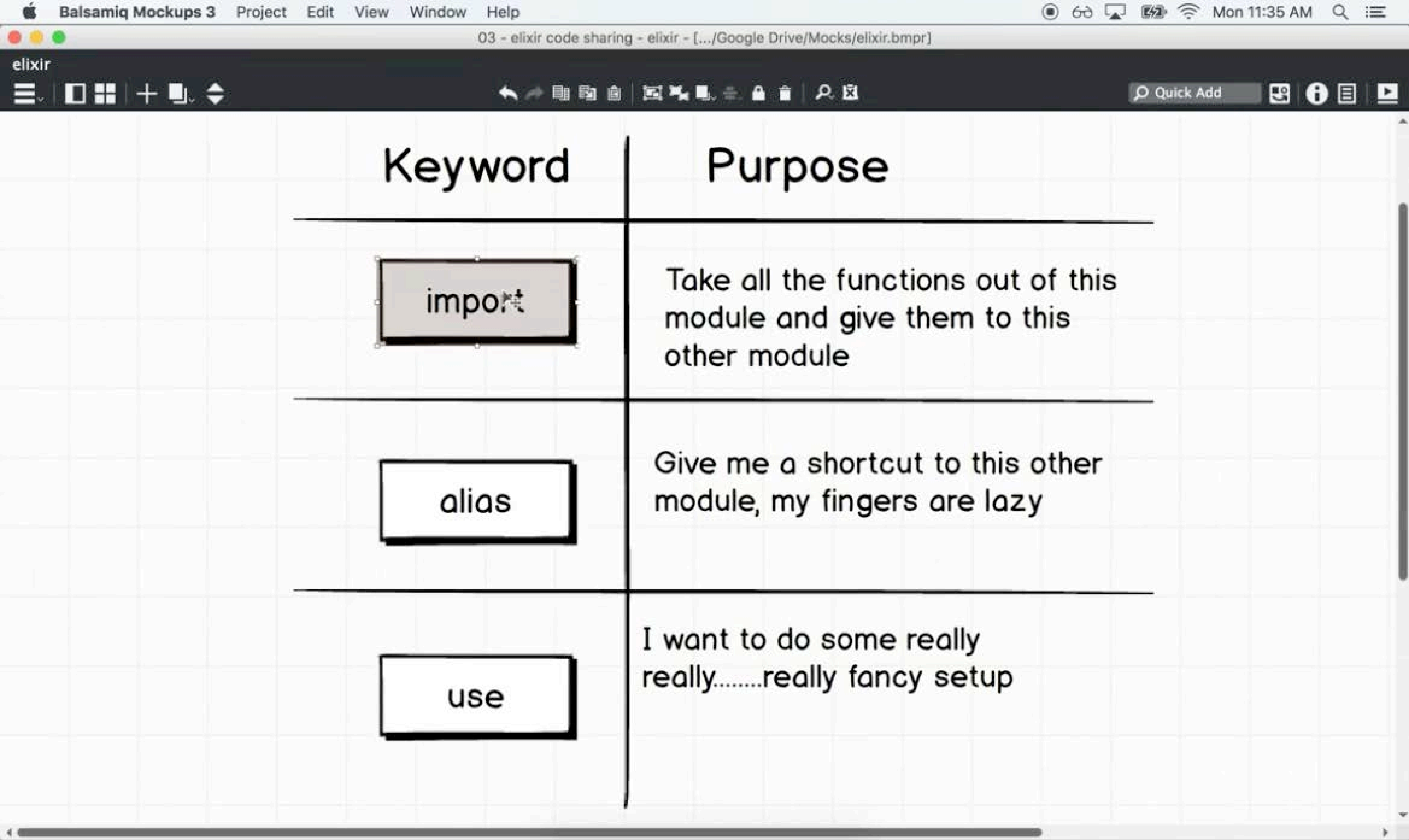
```elixir
defmodule Discuss.TopicController do
  def new() do

  end
end

```



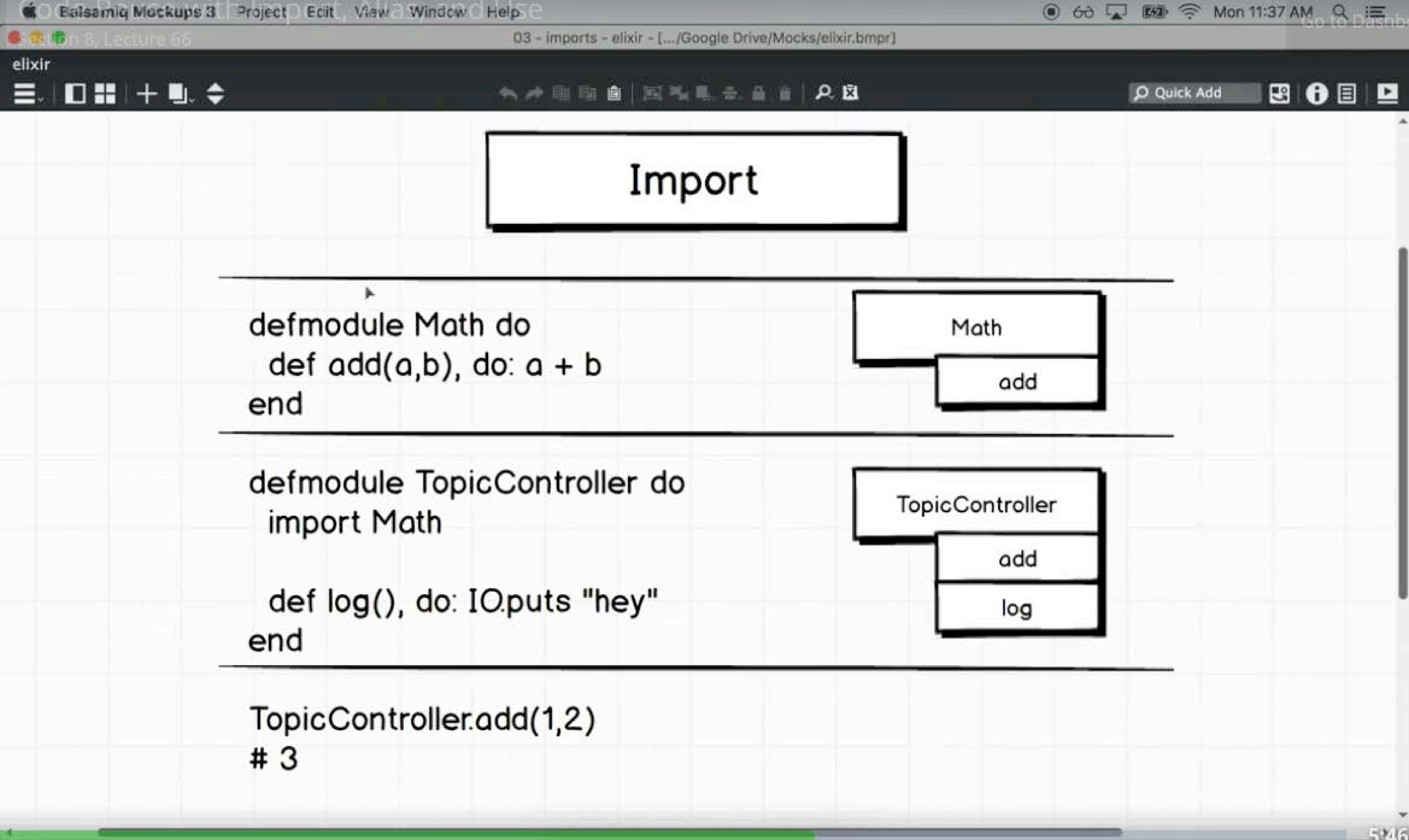
Object Oriented Programming Code Reuse



```
controller = new TopicController();

controller.init();
controller.handle_request();
controller.new();
```


Balsamiq Mockups 3
Project
Edit
View
Window
Help
Mon 11:35 AM
03 - elixir code sharing - elixir - [.../Google Drive/Mocks/elixir.bmpr]
elixir
Quick Add

Keyword	Purpose
import	Take all the functions out of this module and give them to this other module
alias	Give me a shortcut to this other module, my fingers are lazy
use	I want to do some really really........really fancy setup

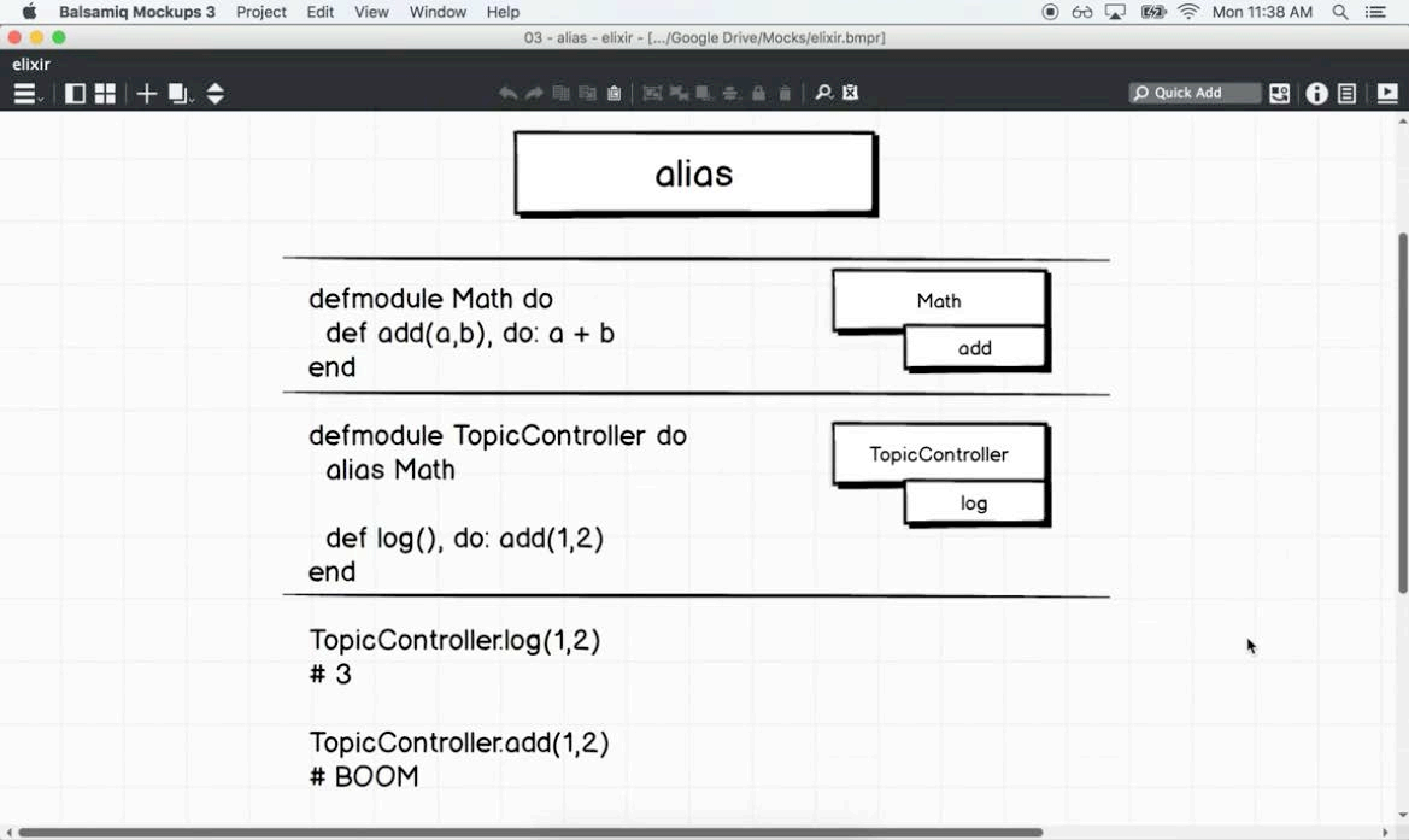


Import

```
defmodule Math do
  def add(a,b), do: a + b
end
```

```
defmodule TopicController do
  import Math

  def log(), do: IO.puts "hey"
end
```

```
TopicController.add(1,2)
# 3
```



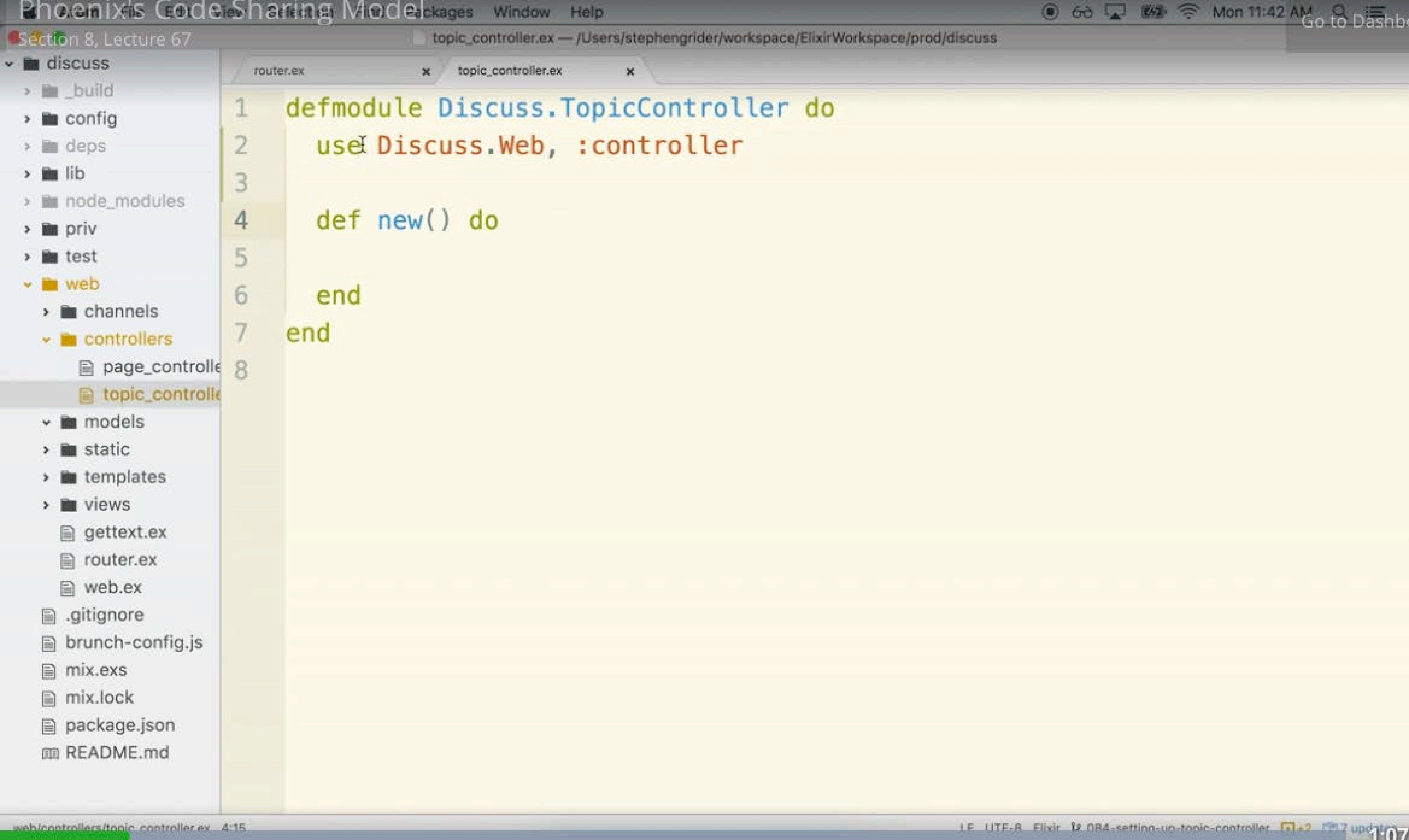
alias

```
defmodule Math do
  def add(a,b), do: a + b
end
```

```
defmodule TopicController do
  alias Math

  def log(), do: add(1,2)
end
```

```
TopicController.log(1,2)
# 3
```

```
TopicController.add(1,2)
# BOOM
```

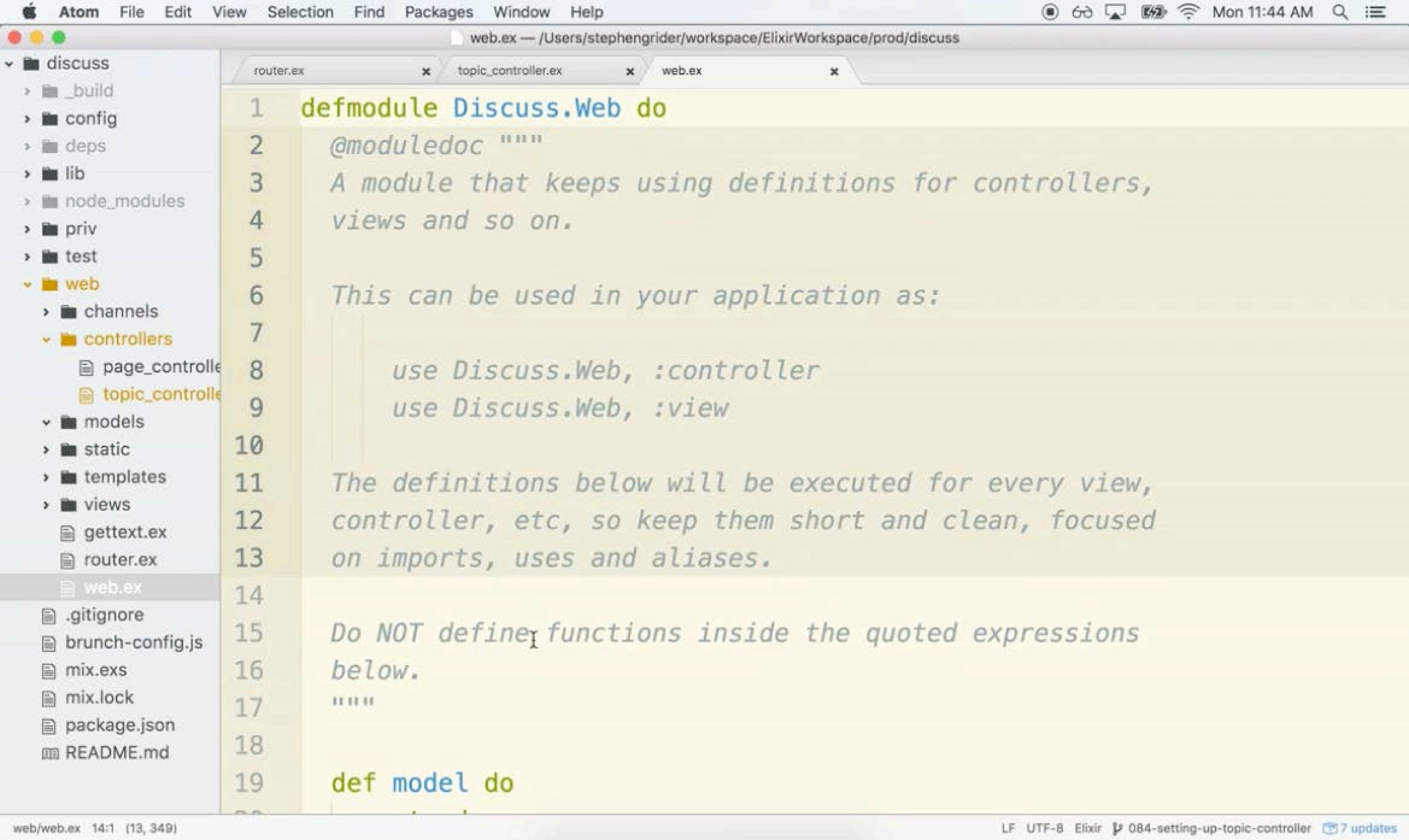


Phoenix's Code Sharing Model

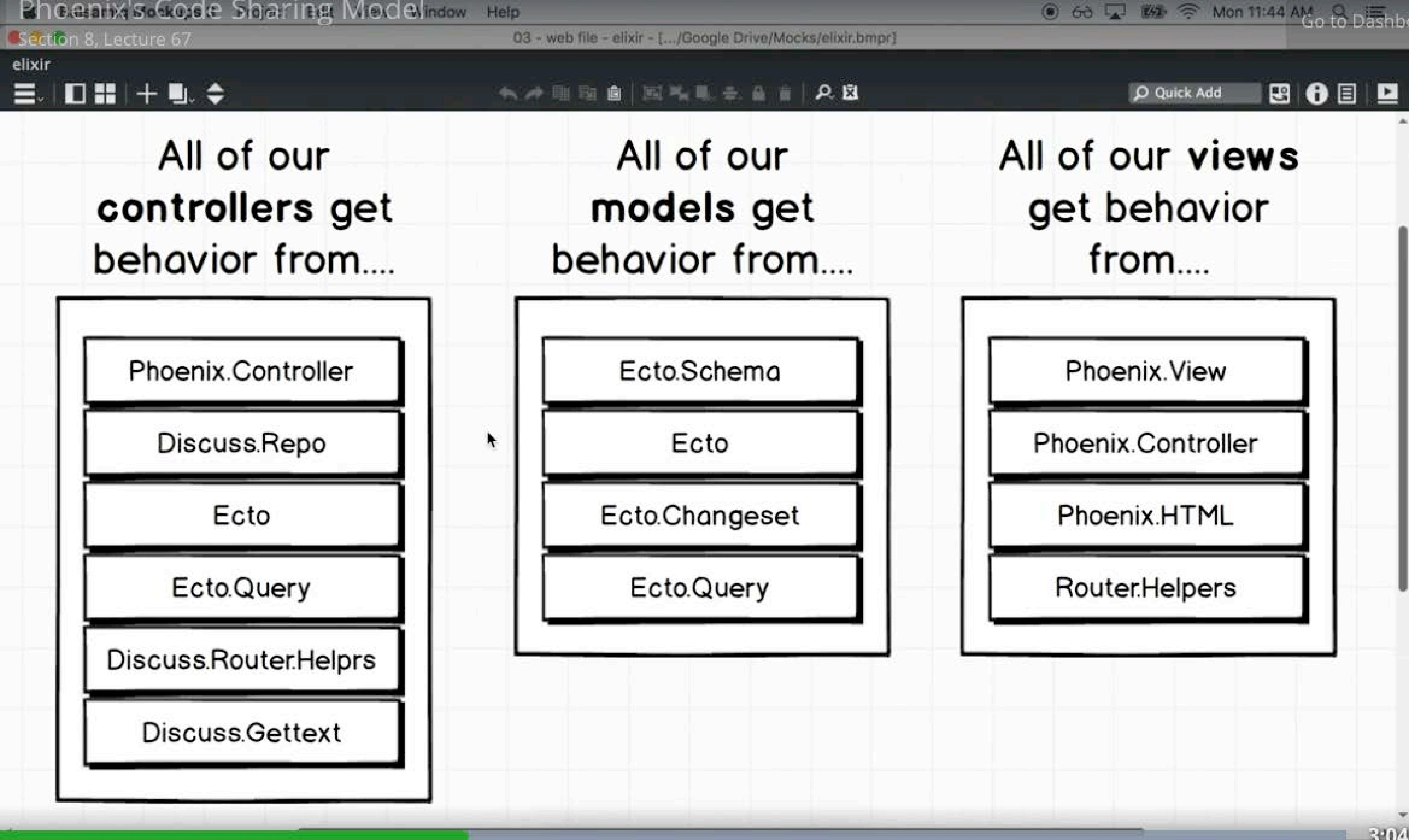
Section 8, Lecture 67

topic_controller.ex — /Users/stephengrider/workspace/ElixirWorkspace/prod/discuss

```
defmodule Discuss.TopicController do
  use Discuss.Web, :controller

  def new() do

  end
end
```



```elixir
defmodule Discuss.Web do
  @moduledoc """
  A module that keeps using definitions for controllers,
  views and so on.

  This can be used in your application as:

      use Discuss.Web, :controller
      use Discuss.Web, :view

  The definitions below will be executed for every view,
  controller, etc, so keep them short and clean, focused
  on imports, uses and aliases.

  Do NOT define functions inside the quoted expressions
  below.
  """

  def model do
```



Phoenix's Code Sharing Model

Section 8, Lecture 67

All of our **controllers** get behavior from....

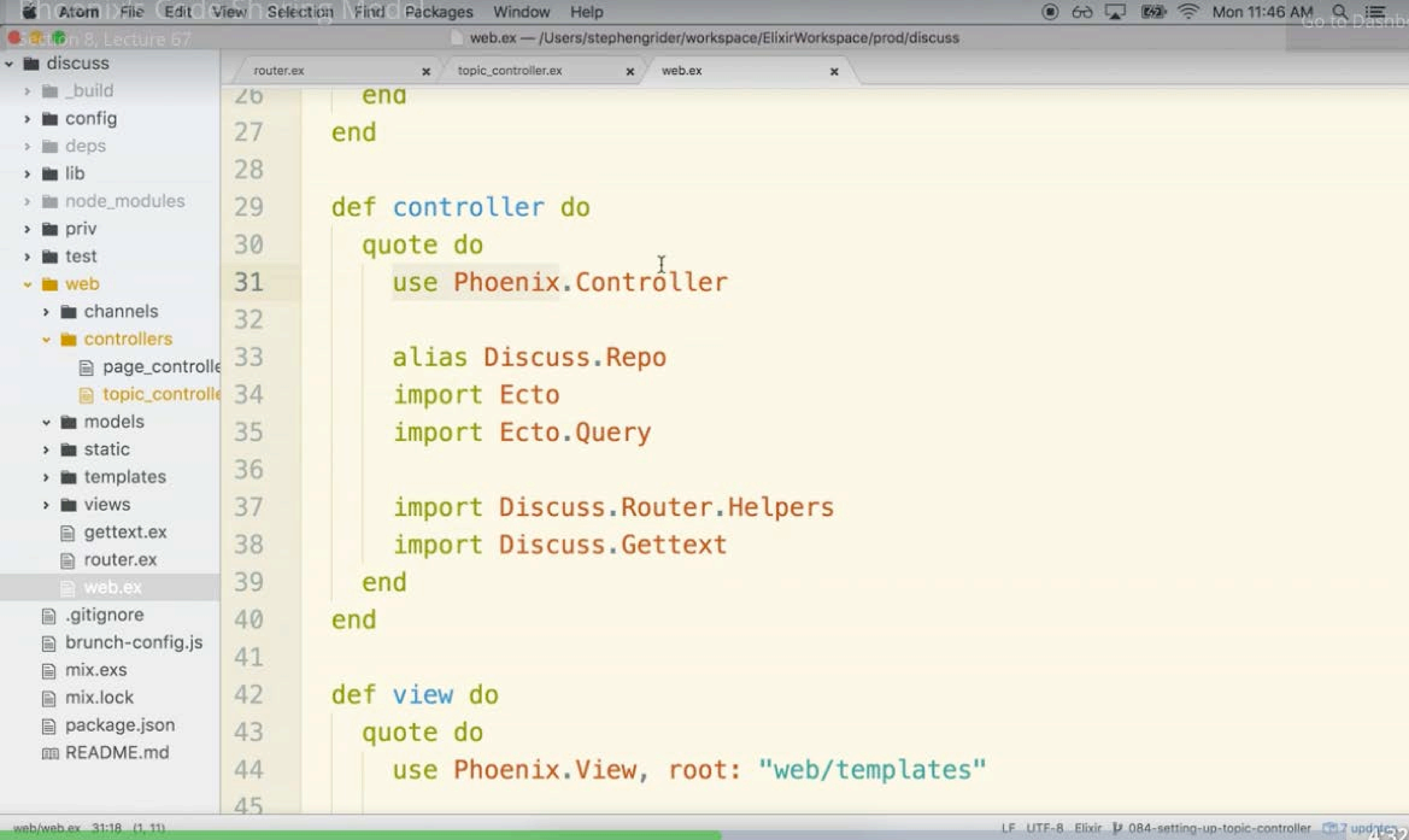
- Phoenix.Controller
- Discuss.Repo
- Ecto
- Ecto.Query
- Discuss.Router.Helprs
- Discuss.Gettext

All of our **models** get behavior from....

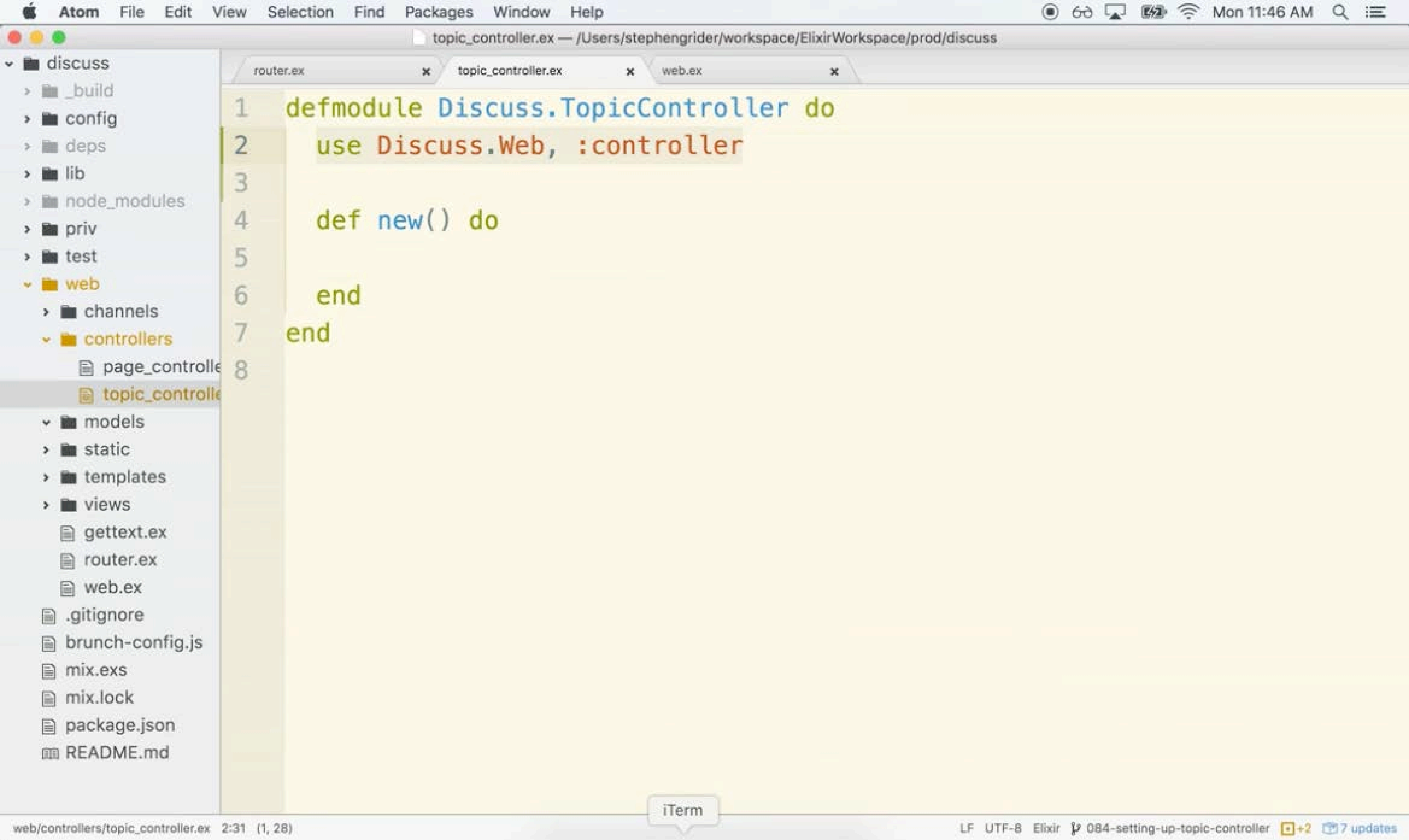
- Ecto.Schema
- Ecto
- Ecto.Changeset
- Ecto.Query

All of our **views** get behavior from....

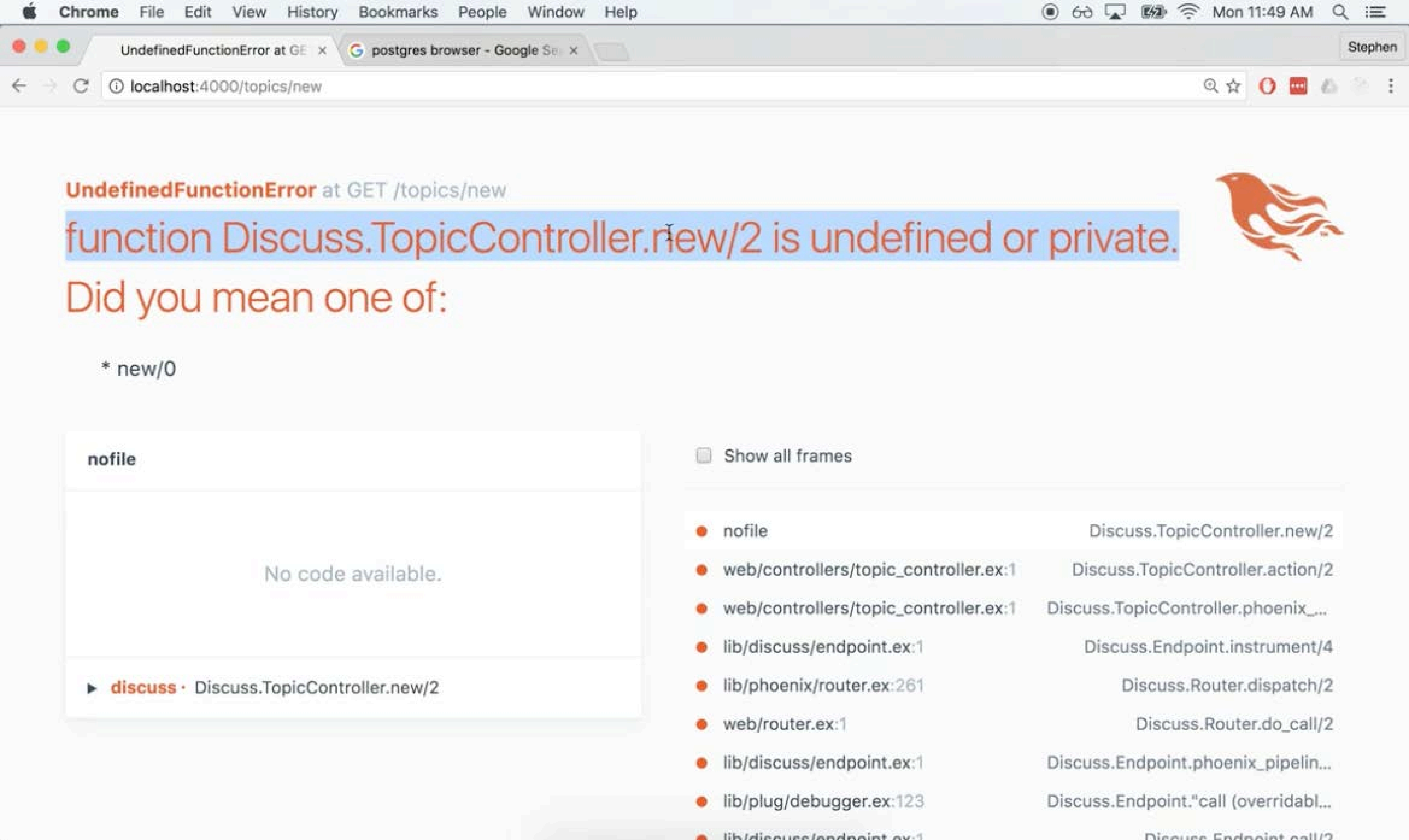
- Phoenix.View
- Phoenix.Controller
- Phoenix.HTML
- Router.Helpers



```
    end
  end

  def controller do
    quote do
      use Phoenix.Controller

      alias Discuss.Repo
      import Ecto
      import Ecto.Query

      import Discuss.Router.Helpers
      import Discuss.Gettext
    end
  end

  def view do
    quote do
      use Phoenix.View, root: "web/templates"
```



```
defmodule Discuss.TopicController do
  use Discuss.Web, :controller

  def new() do

  end
end
```


Chrome File Edit View History Bookmarks People Window Help
Mon 11:49 AM
UndefinedFunctionError at GE
postgres browser - Google Se
Stephen
localhost:4000/topics/new

UndefinedFunctionError at GET /topics/new

function Discuss.TopicController.new/2 is undefined or private.

Did you mean one of:

```
* new/0
```

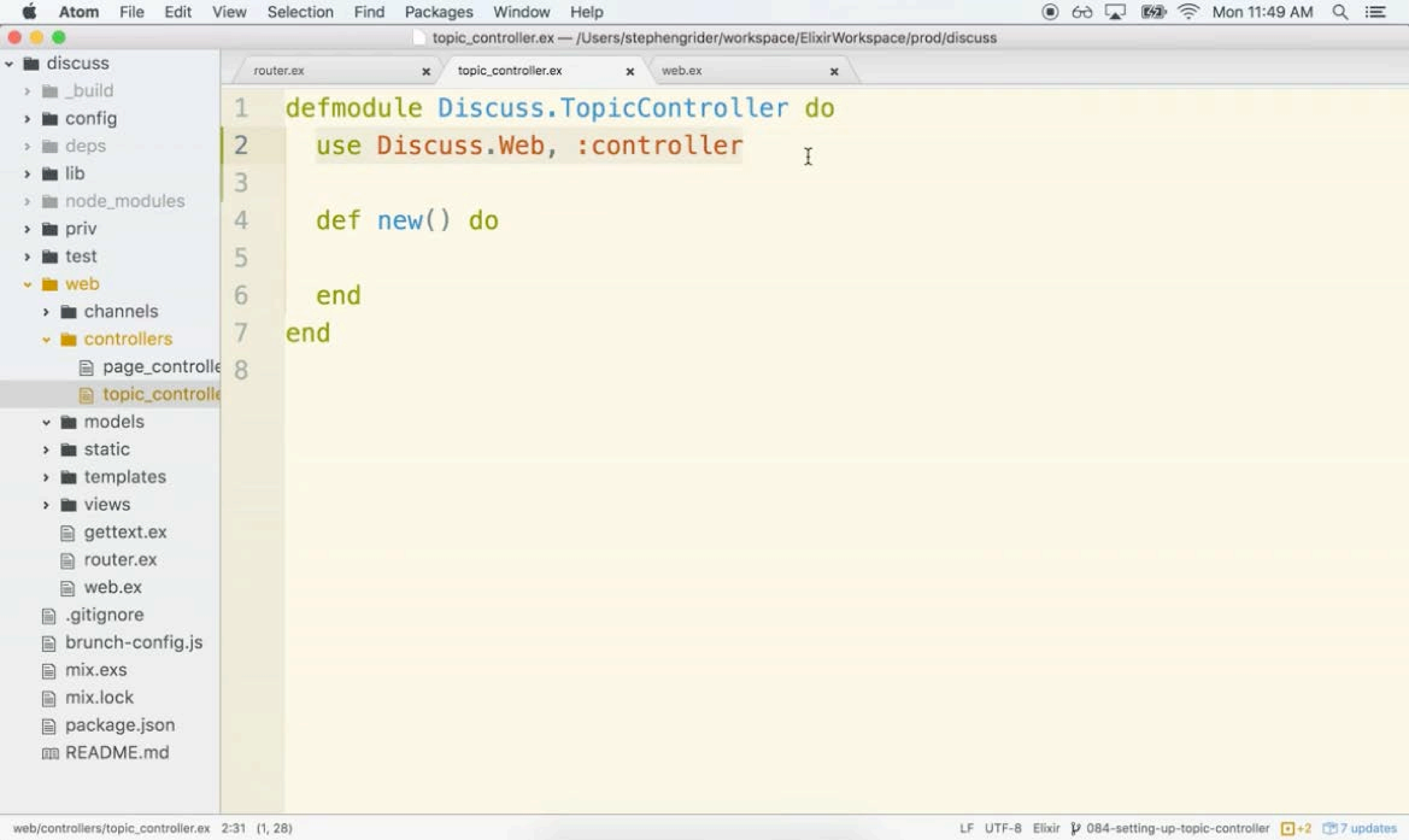
nofile

No code available.

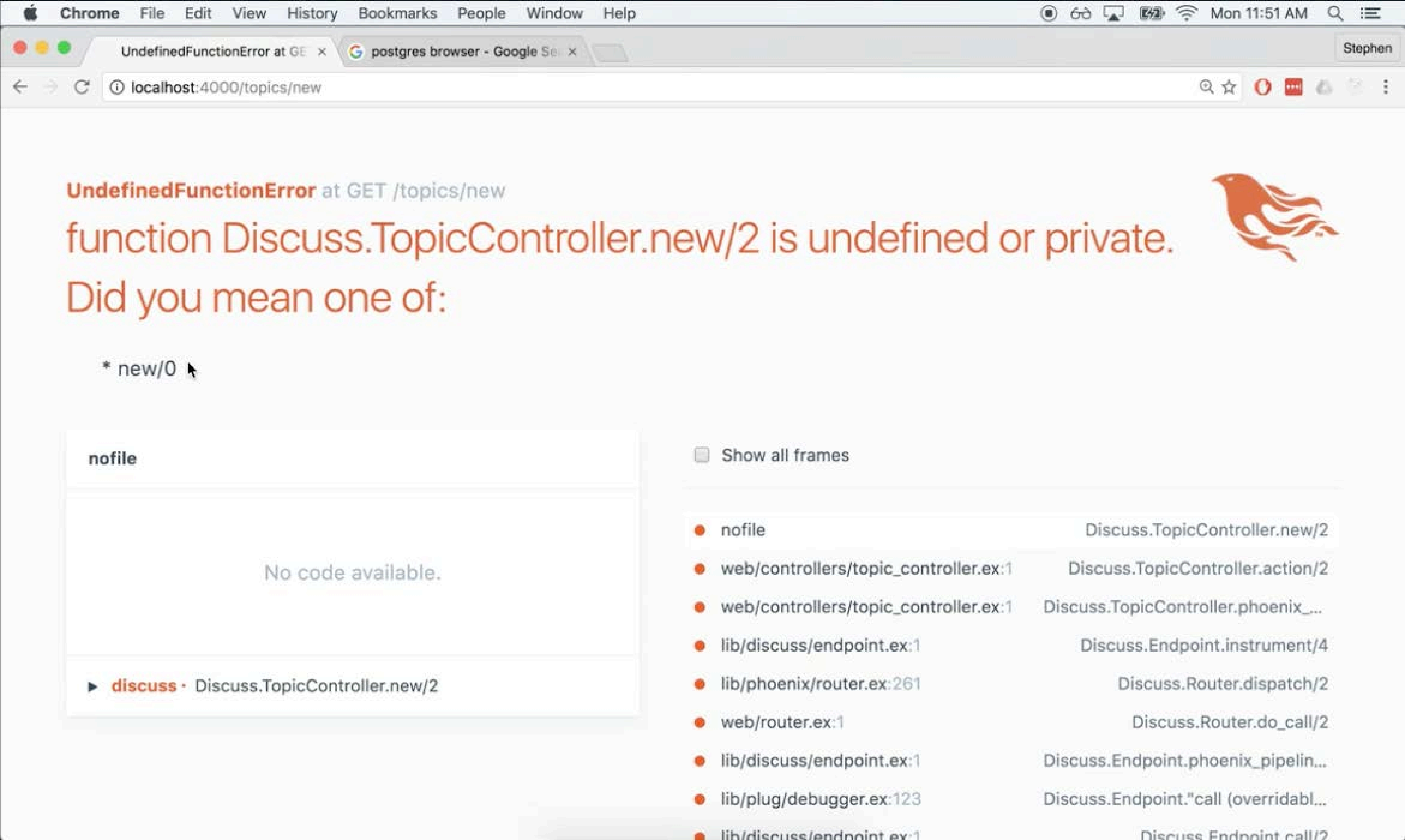
▶ discuss · Discuss.TopicController.new/2

□ Show all frames

```
● nofile                                   Discuss.TopicController.new/2
● web/controllers/topic_controller.ex:1    Discuss.TopicController.action/2
● web/controllers/topic_controller.ex:1    Discuss.TopicController.phoenix_...
● lib/discuss/endpoint.ex:1                Discuss.Endpoint.instrument/4
● lib/phoenix/router.ex:261                Discuss.Router.dispatch/2
● web/router.ex:1                          Discuss.Router.do_call/2
● lib/discuss/endpoint.ex:1                Discuss.Endpoint.phoenix_pipelin...
● lib/plug/debugger.ex:123                 Discuss.Endpoint."call (overridabl...
● lib/discuss/endpoint.ex:1                Discuss.Endpoint.call/2
```



```elixir
defmodule Discuss.TopicController do
  use Discuss.Web, :controller

  def new() do

  end
end
```


Chrome File Edit View History Bookmarks People Window Help
Mon 11:51 AM
UndefinedFunctionError at GE
postgres browser - Google Se
Stephen
localhost:4000/topics/new

UndefinedFunctionError at GET /topics/new

function Discuss.TopicController.new/2 is undefined or private. Did you mean one of:

* new/0

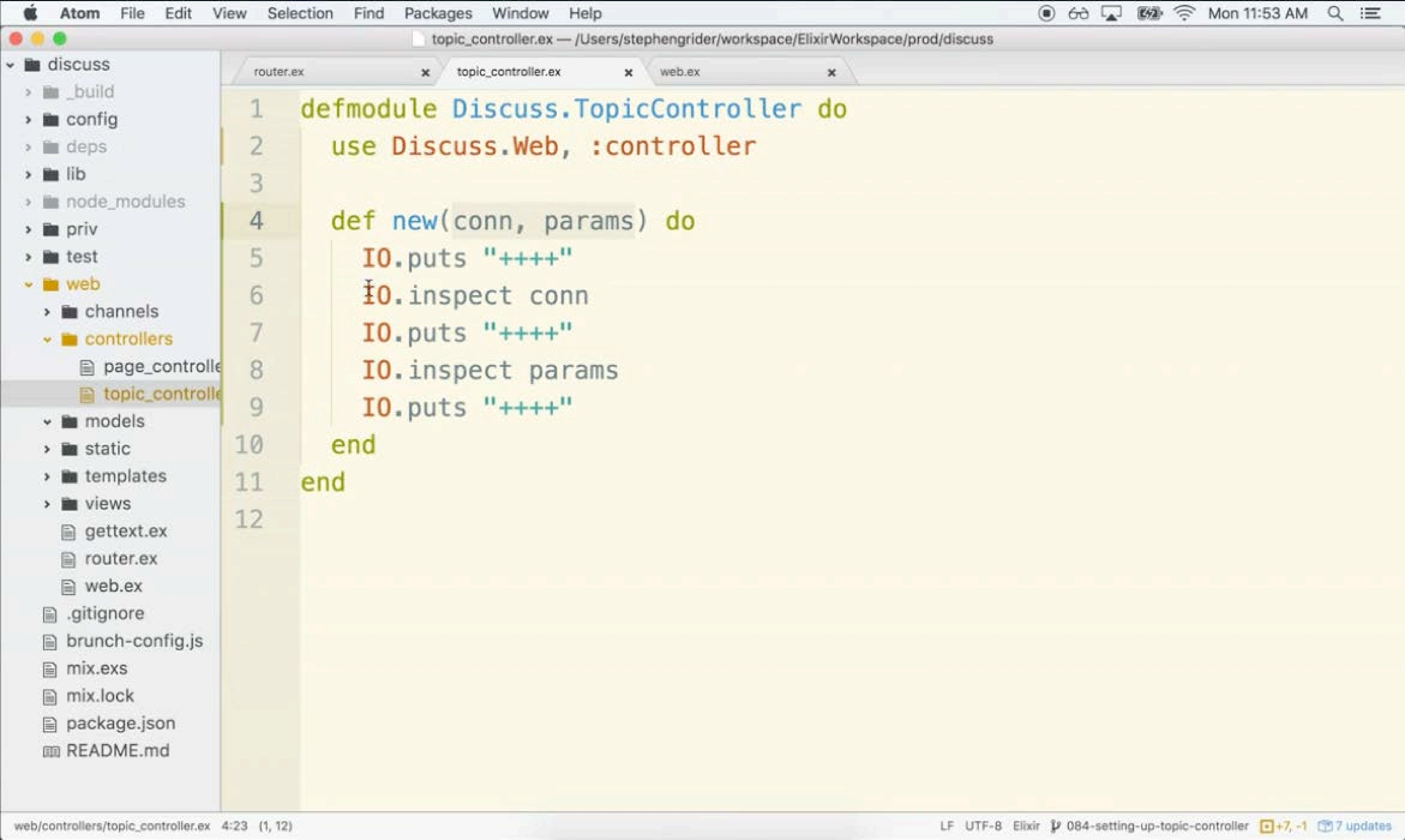
nofile

No code available.

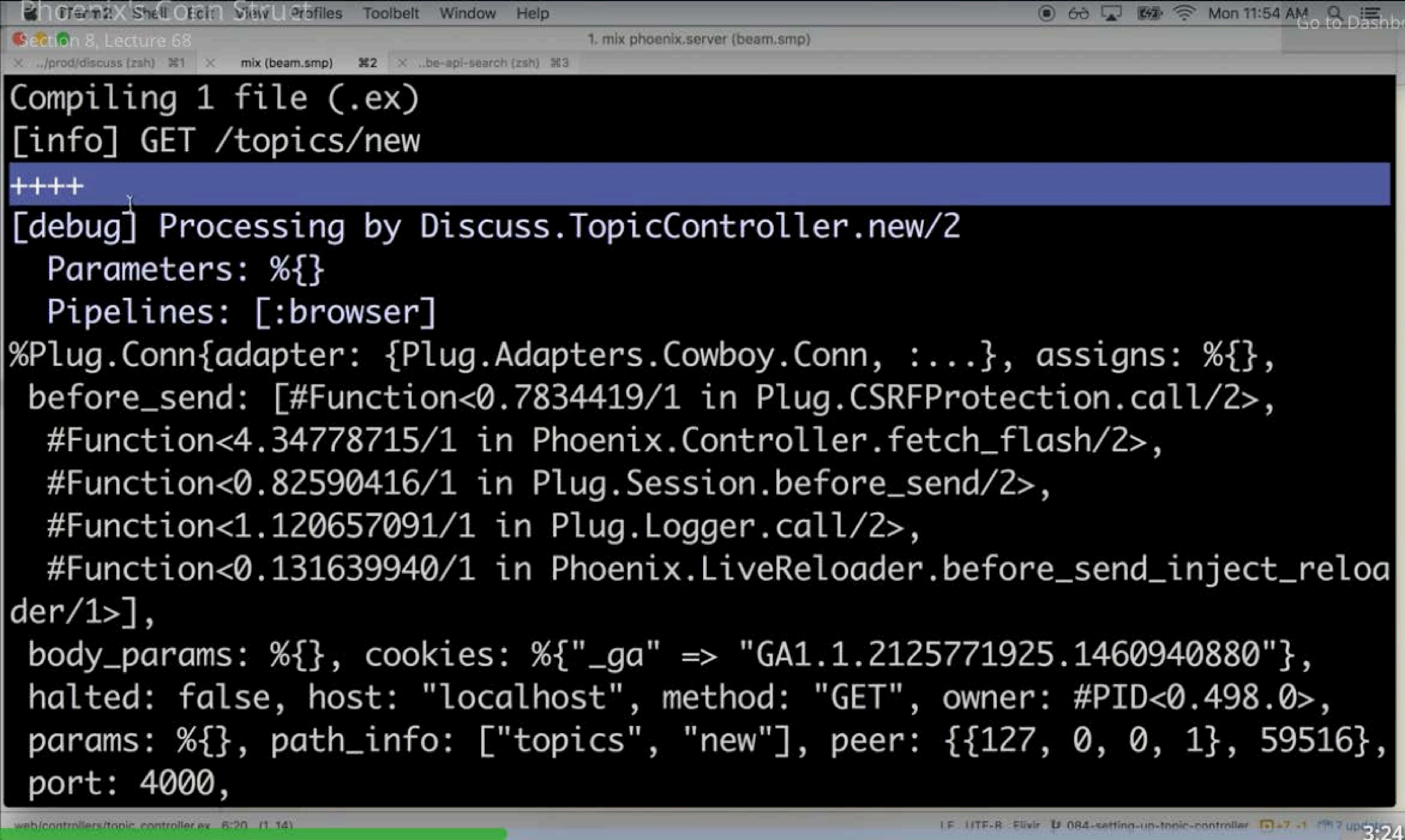
▶ discuss · Discuss.TopicController.new/2

□ Show all frames

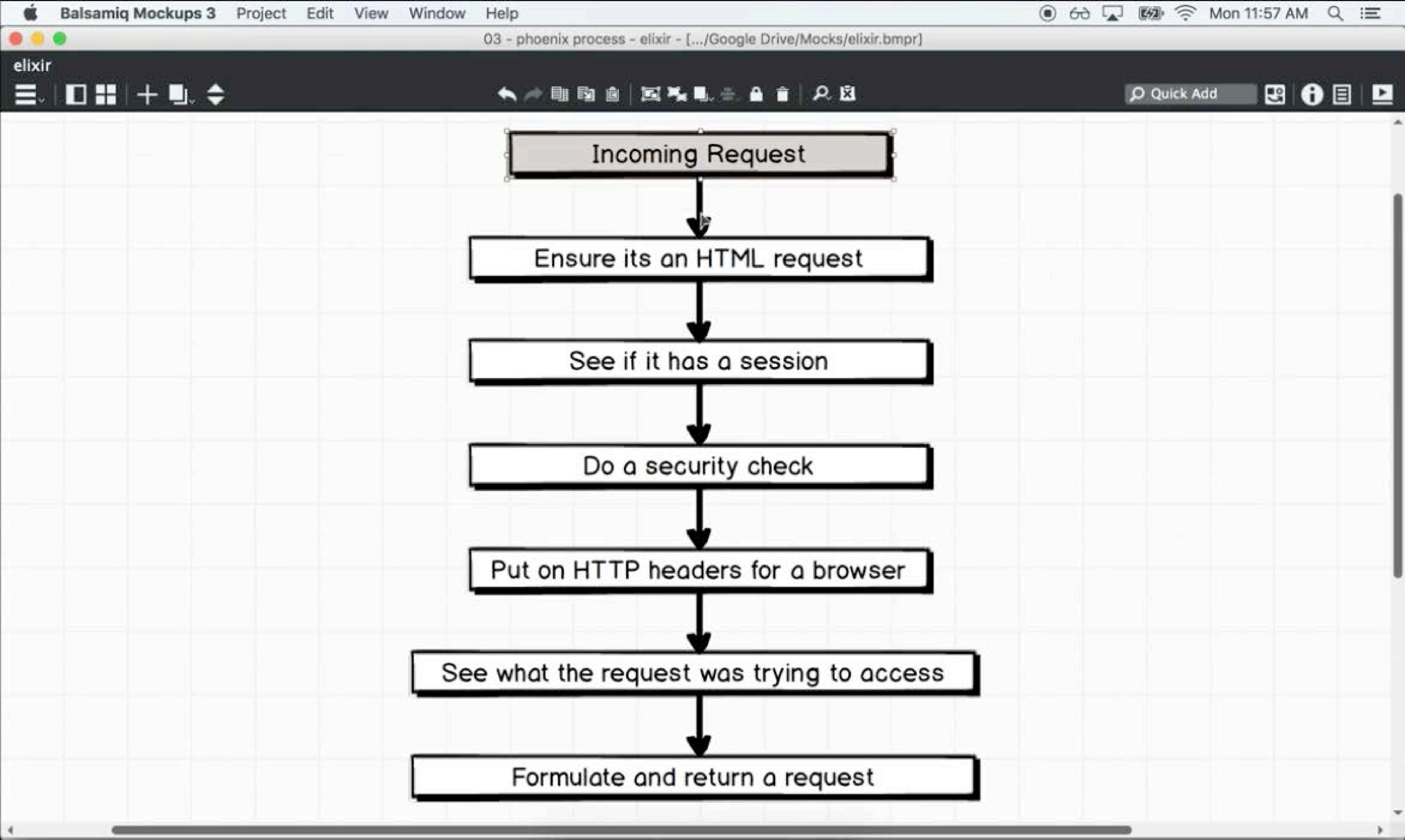
```
● nofile                                   Discuss.TopicController.new/2
● web/controllers/topic_controller.ex:1    Discuss.TopicController.action/2
● web/controllers/topic_controller.ex:1    Discuss.TopicController.phoenix_...
● lib/discuss/endpoint.ex:1                Discuss.Endpoint.instrument/4
● lib/phoenix/router.ex:261                Discuss.Router.dispatch/2
● web/router.ex:1                          Discuss.Router.do_call/2
● lib/discuss/endpoint.ex:1                Discuss.Endpoint.phoenix_pipelin...
● lib/plug/debugger.ex:123                 Discuss.Endpoint."call (overridabl...
● lib/discuss/endpoint.ex:1                Discuss.Endpoint.call/2
```



```elixir
defmodule Discuss.TopicController do
  use Discuss.Web, :controller

  def new(conn, params) do
    IO.puts "++++"
    IO.inspect conn
    IO.puts "++++"
    IO.inspect params
    IO.puts "++++"
  end
end

```



```
Compiling 1 file (.ex)
[info] GET /topics/new
++++
[debug] Processing by Discuss.TopicController.new/2
  Parameters: %{}
  Pipelines: [:browser]
%Plug.Conn{adapter: {Plug.Adapters.Cowboy.Conn, :...}, assigns: %{},
 before_send: [#Function<0.7834419/1 in Plug.CSRFProtection.call/2>,
  #Function<4.34778715/1 in Phoenix.Controller.fetch_flash/2>,
  #Function<0.82590416/1 in Plug.Session.before_send/2>,
  #Function<1.120657091/1 in Plug.Logger.call/2>,
  #Function<0.131639940/1 in Phoenix.LiveReloader.before_send_inject_reloa
der/1>],
 body_params: %{}, cookies: %{"_ga" => "GA1.1.2125771925.1460940880"},
 halted: false, host: "localhost", method: "GET", owner: #PID<0.498.0>,
 params: %{}, path_info: ["topics", "new"], peer: {{127, 0, 0, 1}, 59516},
 port: 4000,
```



Incoming Request

Ensure its an HTML request

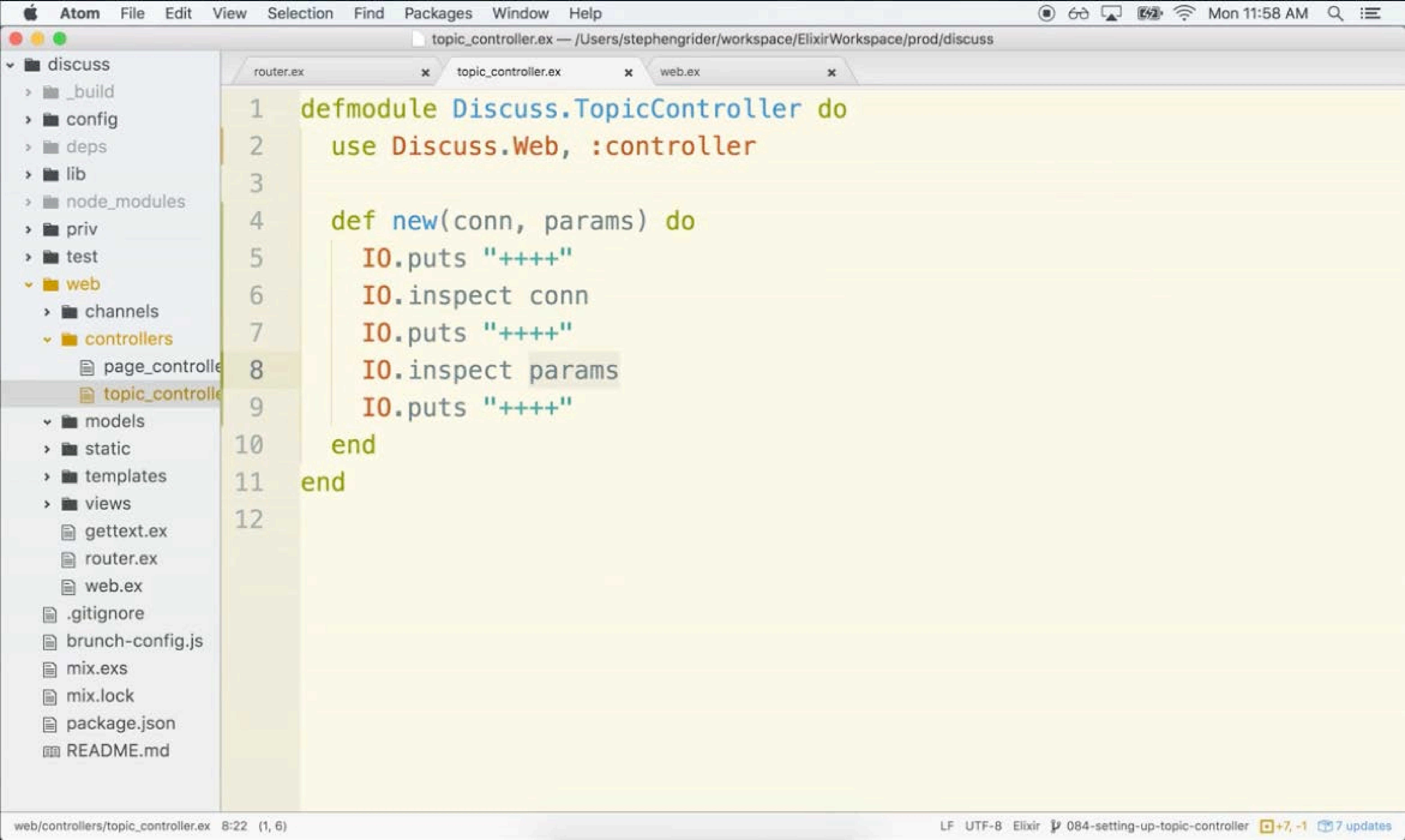
See if it has a session

Do a security check

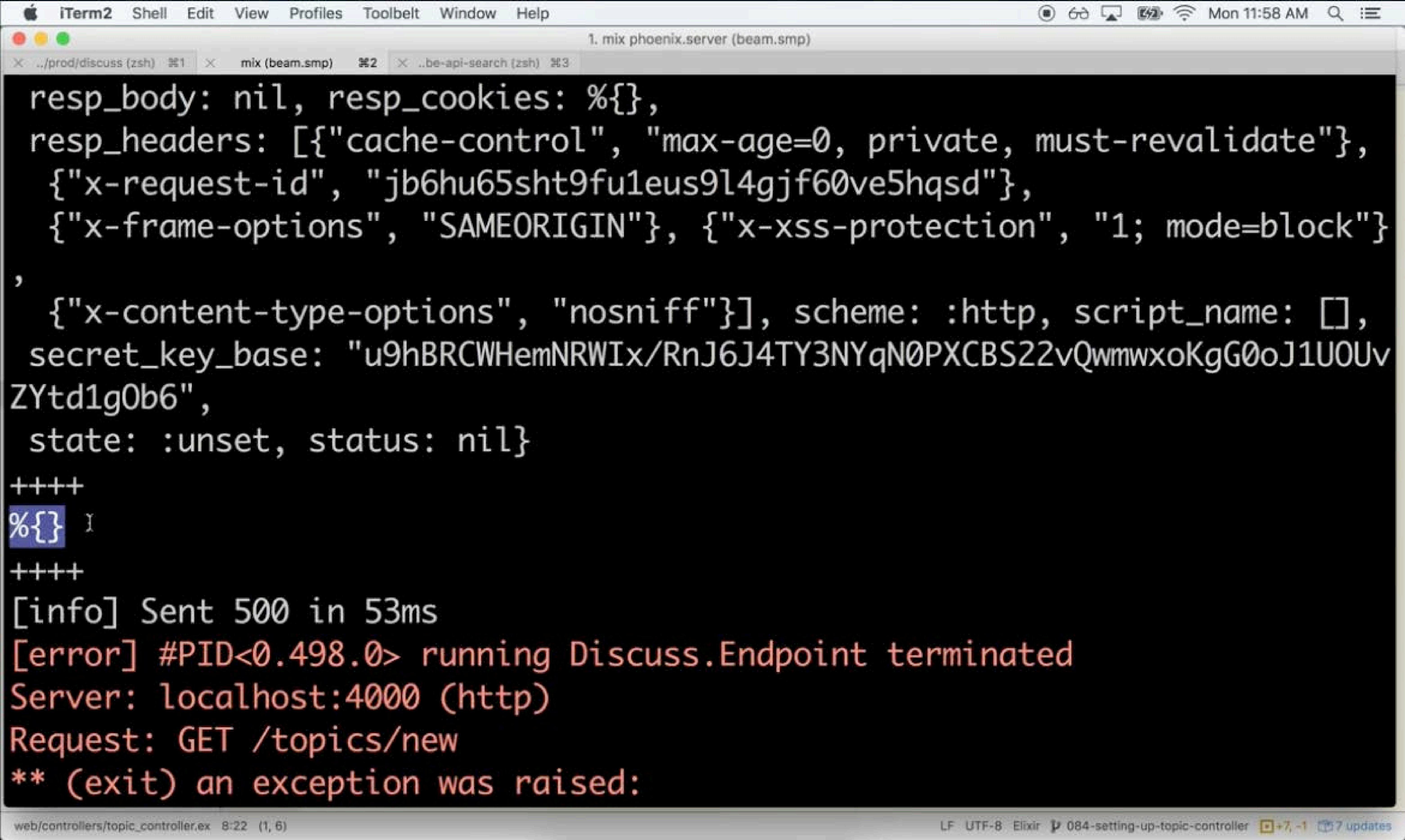
Put on HTTP headers for a browser

See what the request was trying to access

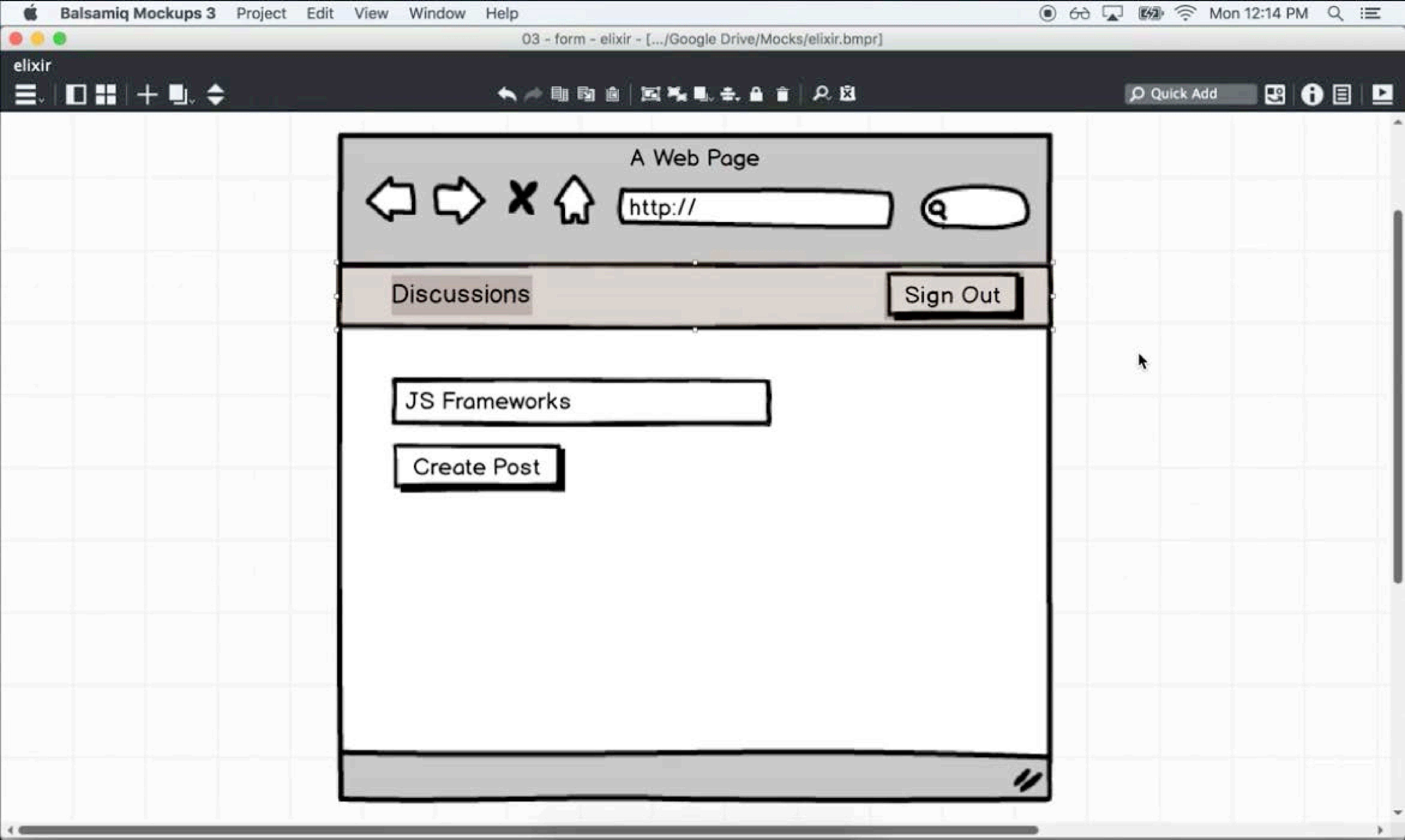
Formulate and return a request



```elixir
defmodule Discuss.TopicController do
  use Discuss.Web, :controller

  def new(conn, params) do
    IO.puts "++++"
    IO.inspect conn
    IO.puts "++++"
    IO.inspect params
    IO.puts "++++"
  end
end

```


iTerm2
Shell
Edit
View
Profiles
Toolbelt
Window
Help
Mon 11:58 AM
1. mix phoenix.server (beam.smp)
../prod/discuss (zsh) ⌘1
mix (beam.smp) ⌘2
..be-api-search (zsh) ⌘3
web/controllers/topic_controller.ex 8:22 (1, 6)
LF UTF-8 Elixir 084-setting-up-topic-controller +7, -1 7 updates

```
 resp_body: nil, resp_cookies: %{},
 resp_headers: [{"cache-control", "max-age=0, private, must-revalidate"},
  {"x-request-id", "jb6hu65sht9fu1eus9l4gjf60ve5hqsd"},
  {"x-frame-options", "SAMEORIGIN"}, {"x-xss-protection", "1; mode=block"}
,
  {"x-content-type-options", "nosniff"}], scheme: :http, script_name: [],
 secret_key_base: "u9hBRCWHemNRWIx/RnJ6J4TY3NYqN0PXCBS22vQwmwxoKgG0oJ1UOUv
ZYtd1gOb6",
 state: :unset, status: nil}
++++
%{}
++++
[info] Sent 500 in 53ms
[error] #PID<0.498.0> running Discuss.Endpoint terminated
Server: localhost:4000 (http)
Request: GET /topics/new
** (exit) an exception was raised:
```


Balsamiq Mockups 3
Project
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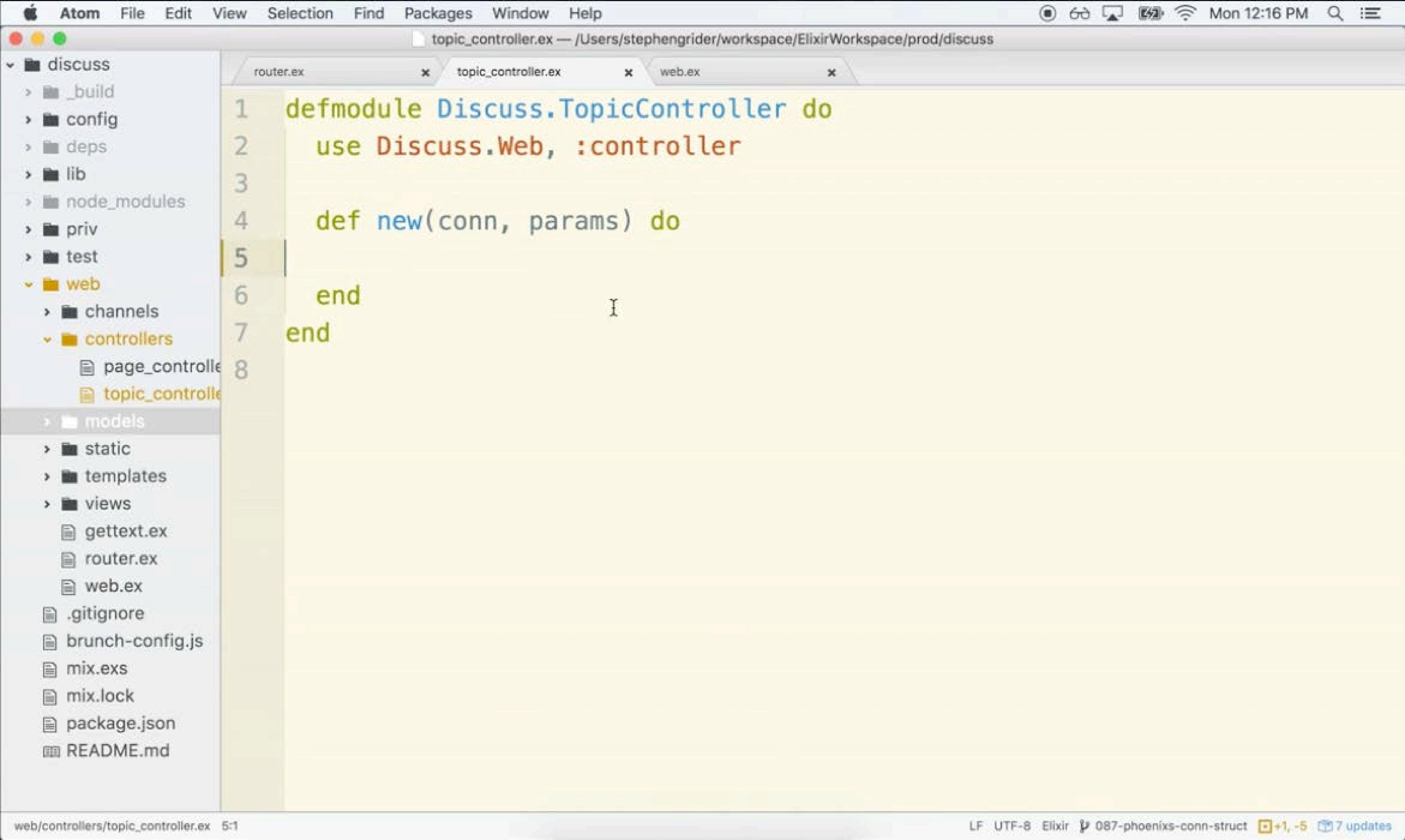
Discussions
Sign Out
JS Frameworks
Create Post



```
defmodule Discuss.TopicController do
  use Discuss.Web, :controller

  def new(conn, params) do

  end
end
```