

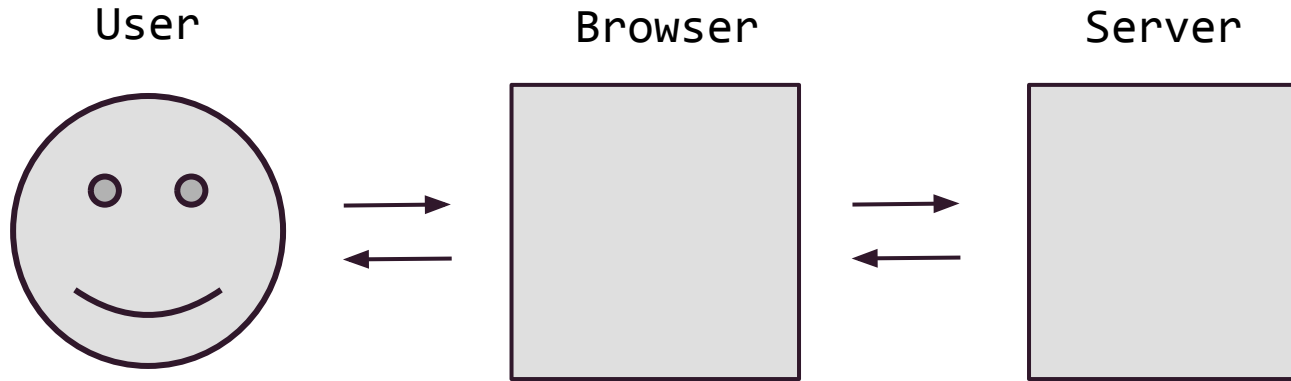
Intro to Rails

RailsBridgeTri - Intro to Rails - April 22, 2017

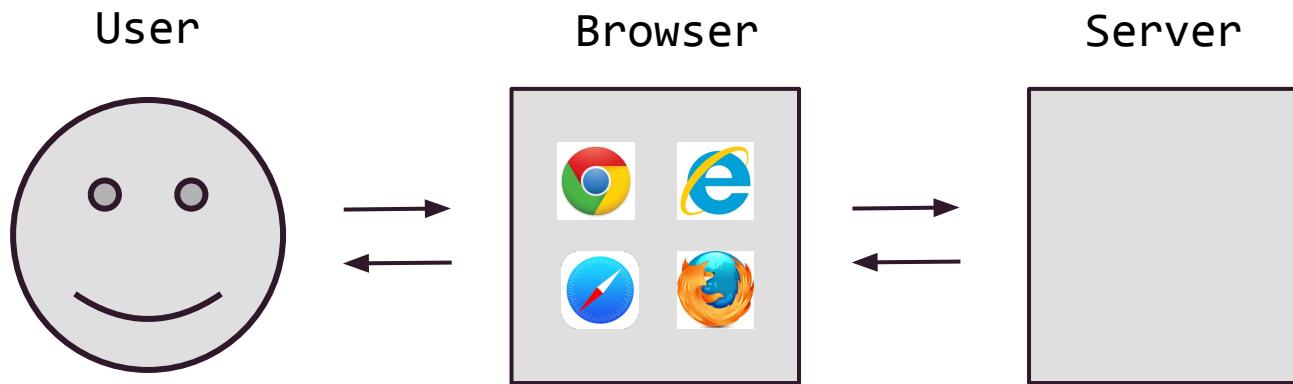
*Annie Kiley
Developer (Viget)*

What's going on?

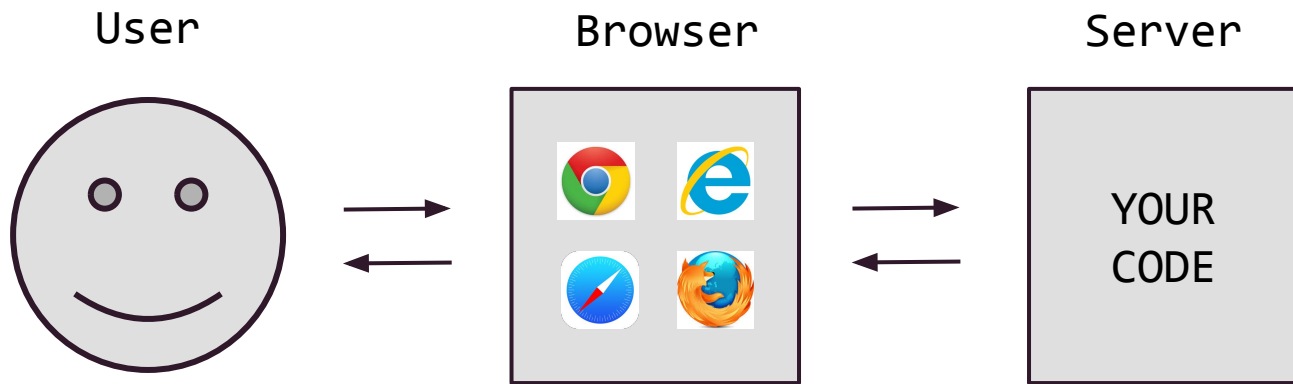
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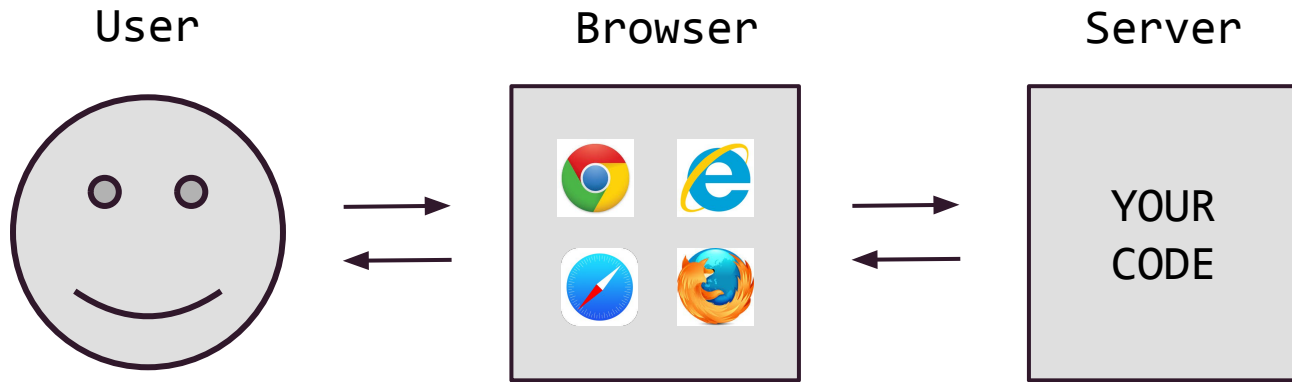
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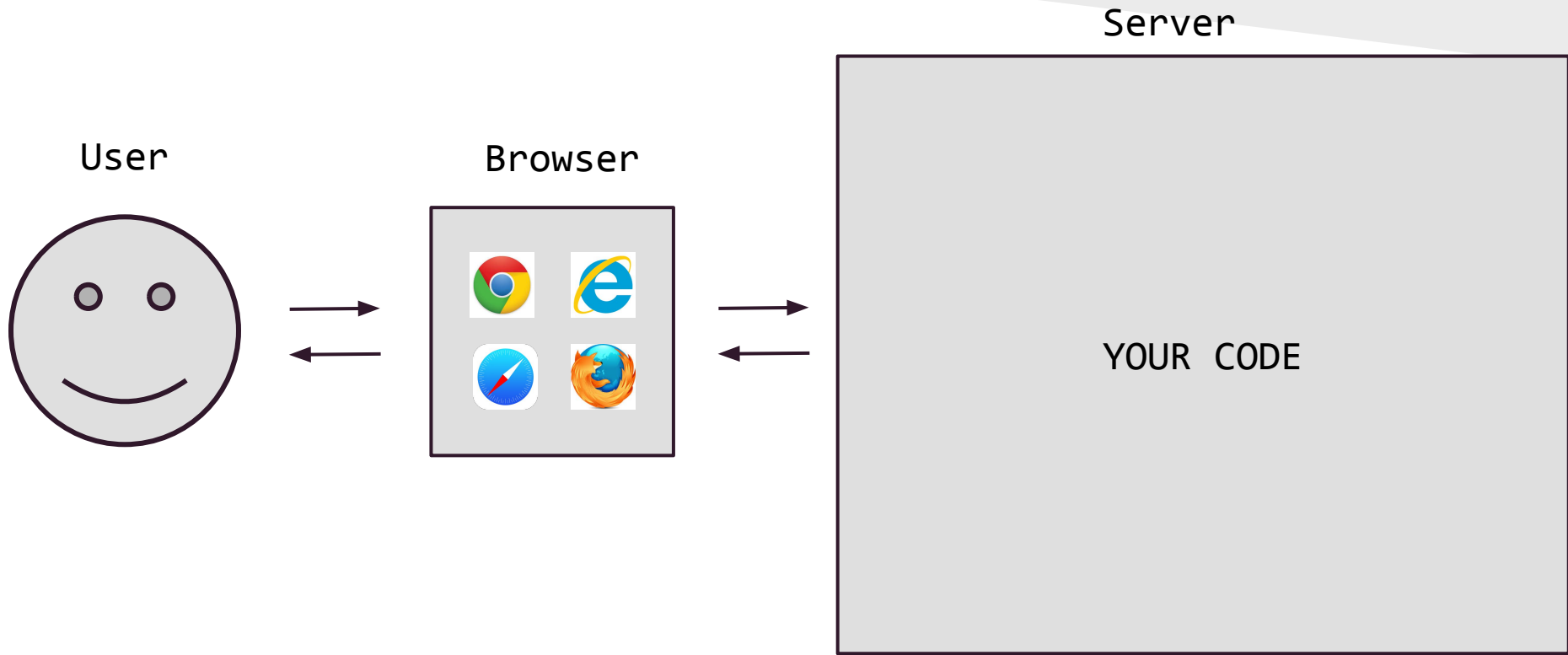
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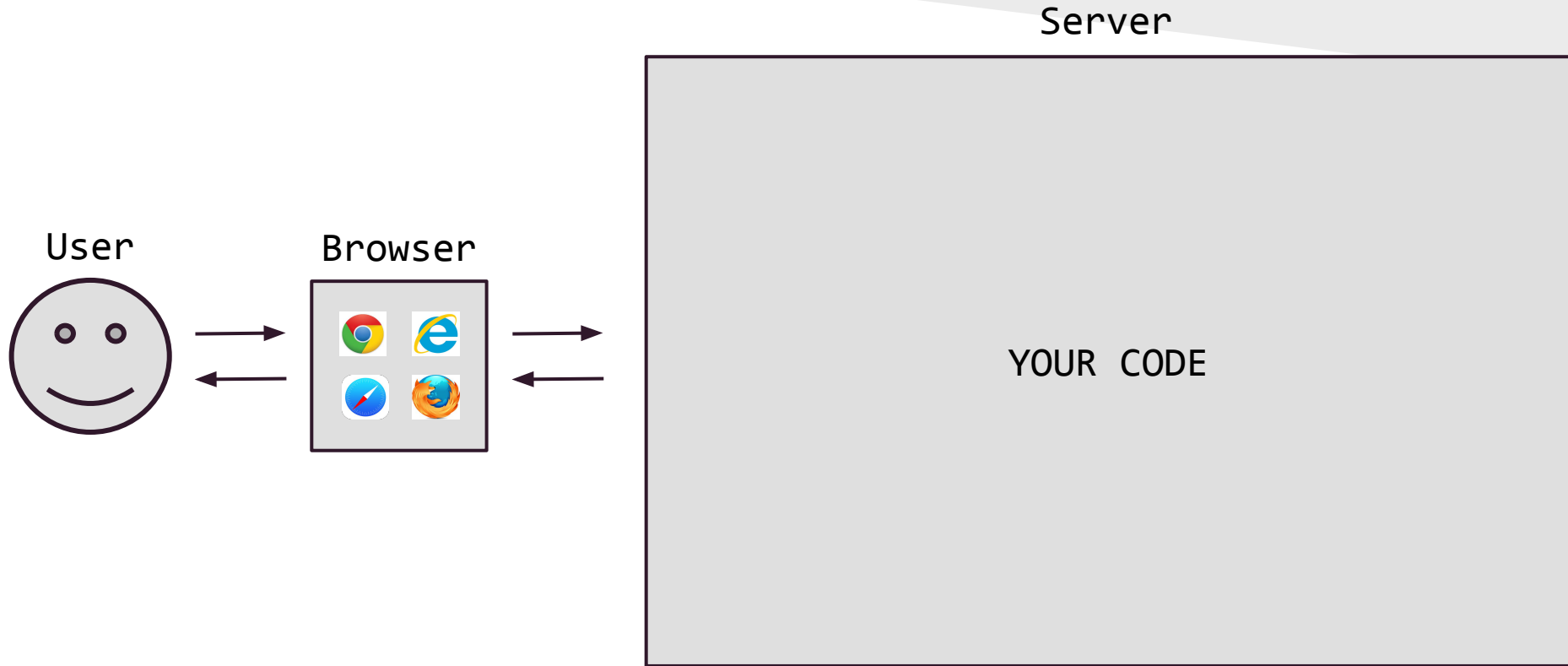
What's going on?



What's going on?



What's going on?



What do you want to
build?

What do you want to build?



What do you want to build?

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What do you want to build?

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Harry Potter Paperback Box x Annie

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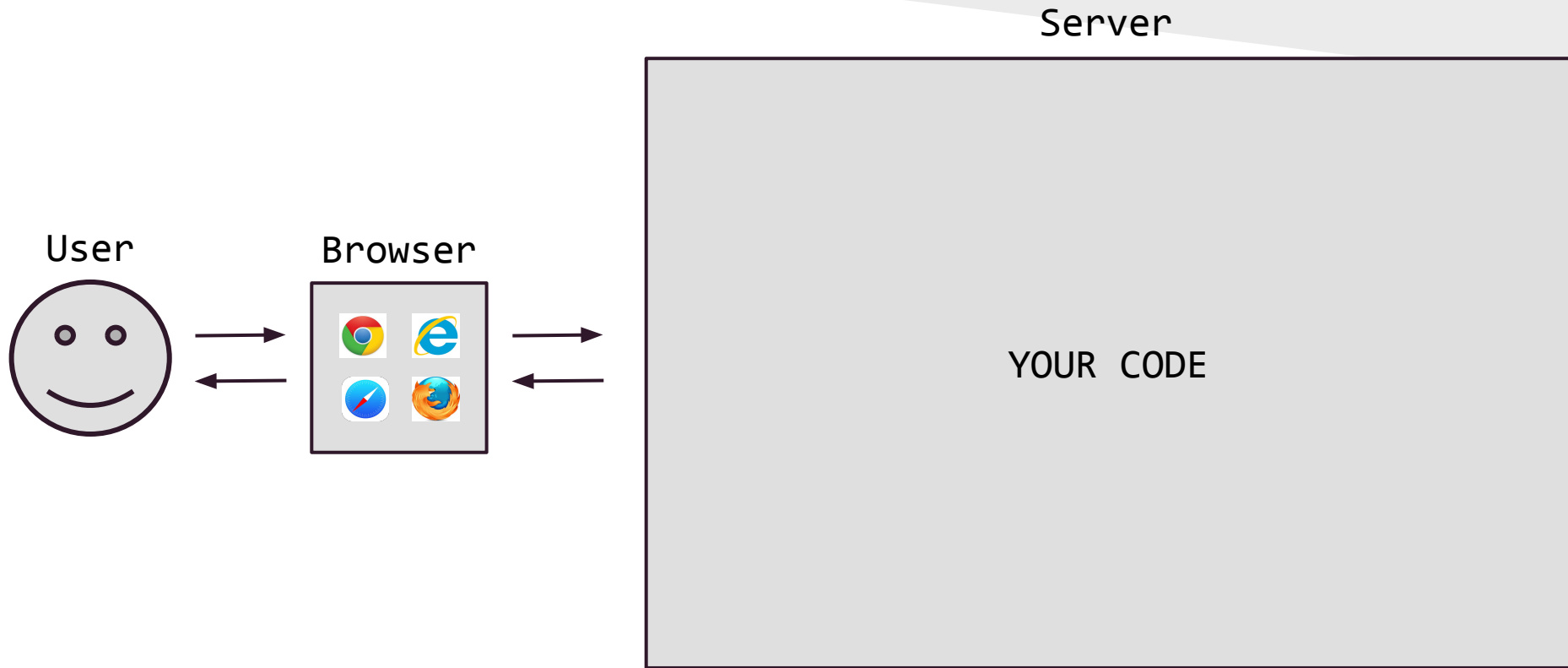
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What do you want to build?



How do you build a web
application?
(I thought this was about rails...)

How do you build a web application?

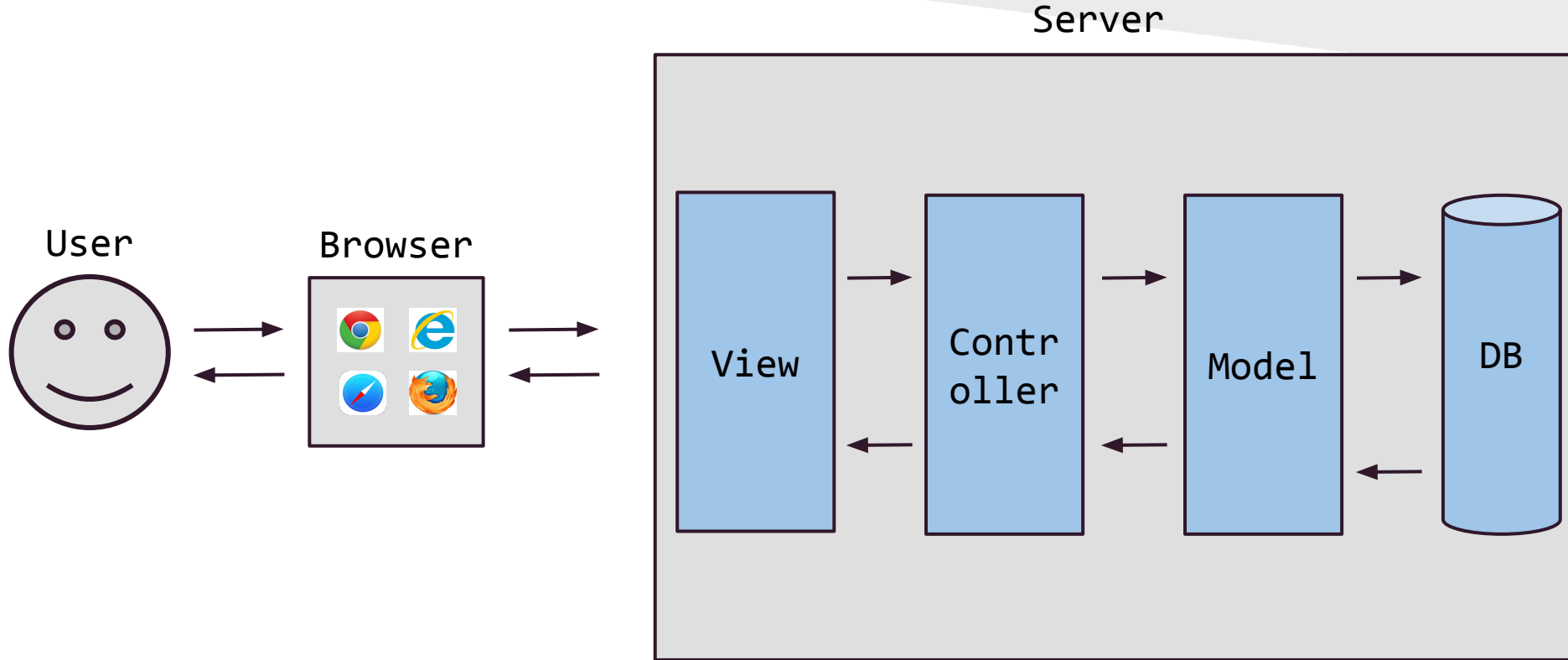
```
~/Projects> rails new suggestotron
```

How do you build a web application?

```
~/Projects> rails new suggestotron
```

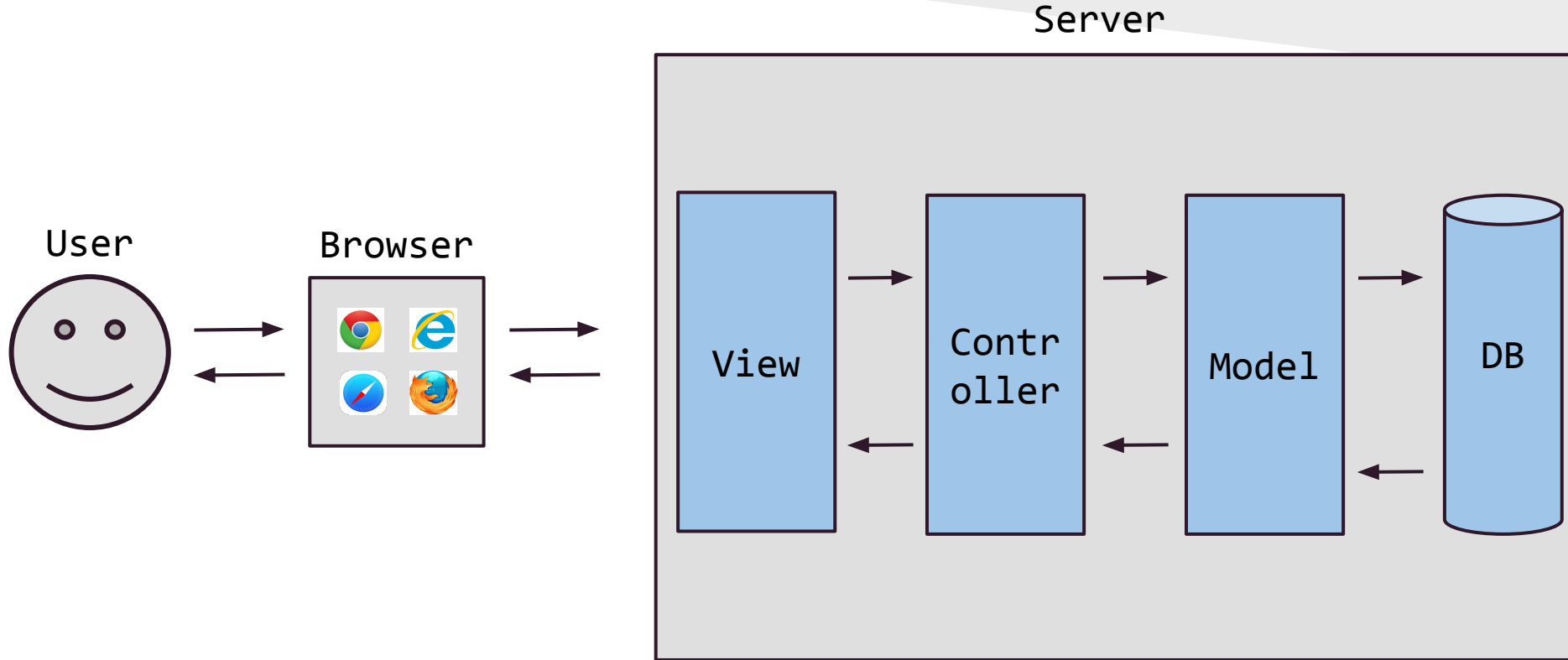
```
lannie@Annes-MacBook-Pro ~/Projects> rails new suggestotron
create
create  README.md
create  Rakefile
create  config.ru
create  .gitignore
create  Gemfile
create  app
create  app/assets/config/manifest.js
create  app/assets/javascripts/application.js
create  app/assets/javascripts/cable.js
create  app/assets/stylesheets/application.css
create  app/channels/application_cable/channel.rb
create  app/channels/application_cable/connection.rb
create  app/controllers/application_controller.rb
create  app/helpers/application_helper.rb
create  app/jobs/application_job.rb
create  app/mailers/application_mailer.rb
create  app/models/application_record.rb
create  app/views/layouts/application.html.erb
create  app/views/layouts/mailer.html.erb
create  app/views/layouts/mailer.text.erb
create  app/assets/images/.keep
create  app/assets/javascripts/channels
create  app/assets/javascripts/channels/.keep
create  app/controllers/concerns/.keep
create  app/models/concerns/.keep
create  bin
create  bin/bundle
create  bin/rails
create  bin/rake
create  bin/setup
create  bin/update
```


How do you build a web application?



More technical details
please!

How do you build a web application?



Your database starts out like:

Making a table with a migration

Topics

`title - string ("Animals")`

`Description - string ("Just the fun ones")`

Making a table with a migration

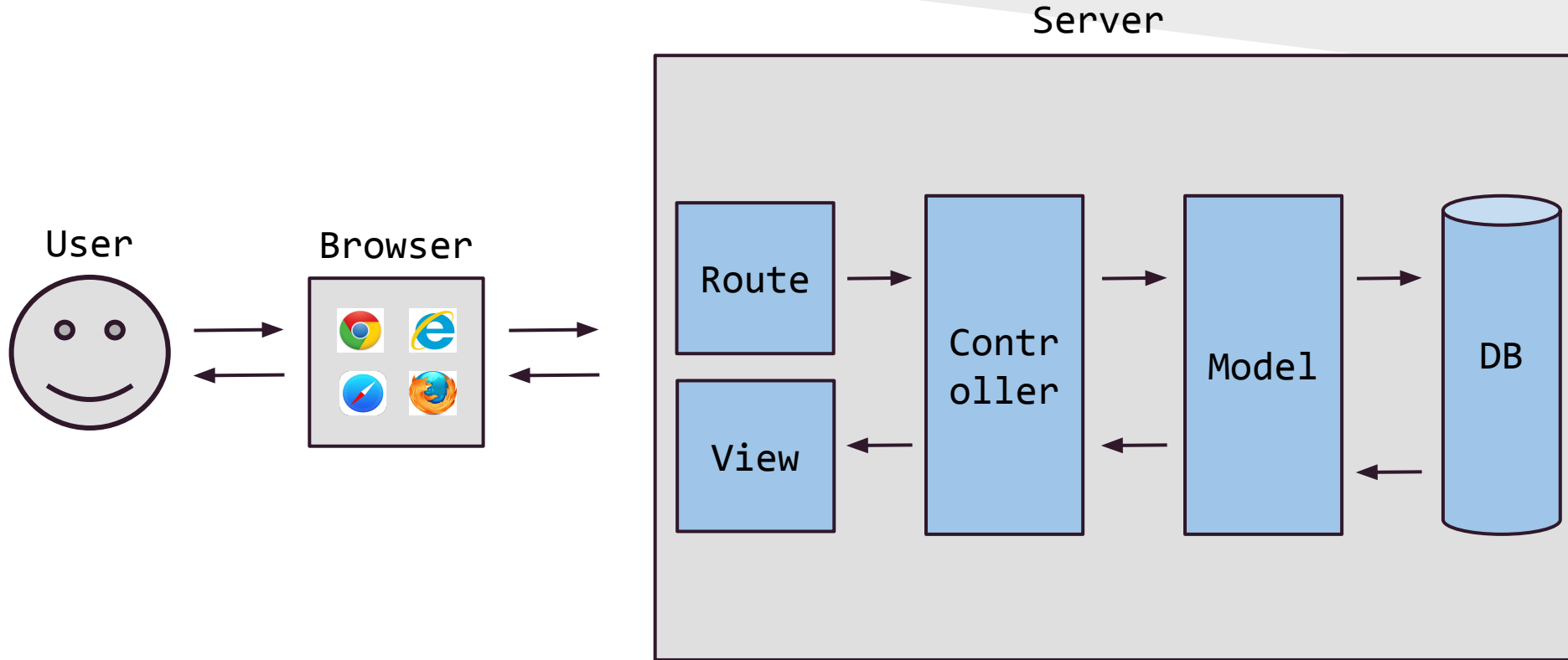
```
index.html.erb *  
1 | class CreateTopics < ActiveRecord::Migration[5.0]  
2 |   def change  
3 |     create_table :topics do |t|  
4 |       t.string :title  
5 |       t.text :description  
6 |  
7 |       t.timestamps  
8 |     end  
9 |   end  
10 | end  
11
```

Now your database looks like:

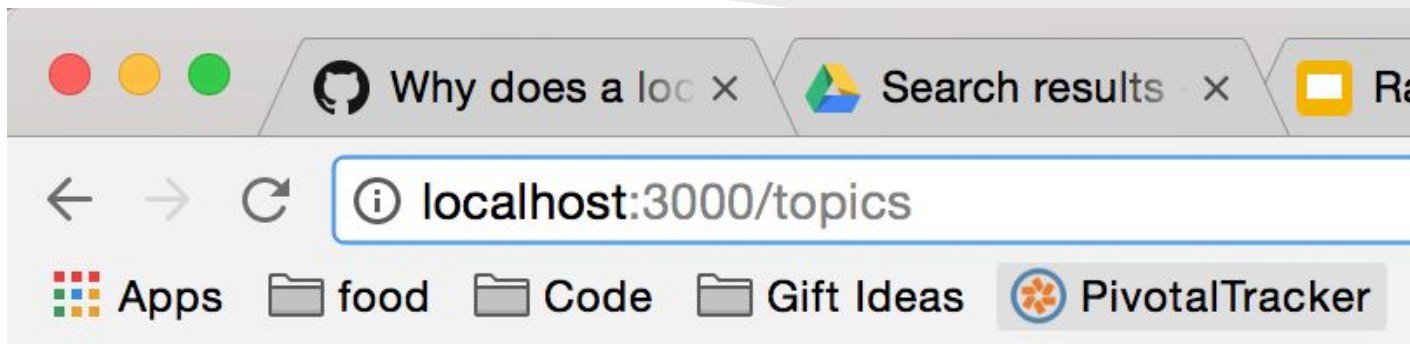
Topics

title (string)	description (string)

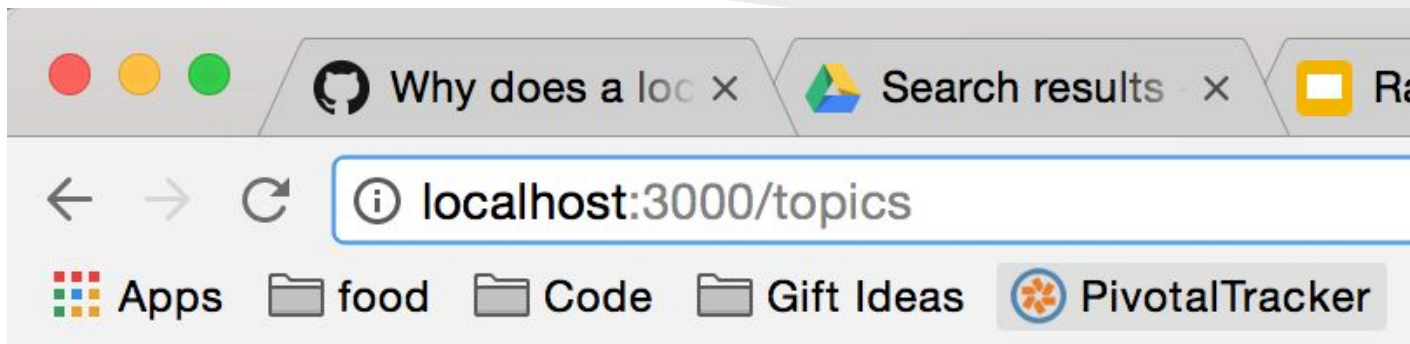
Your web application



Routing

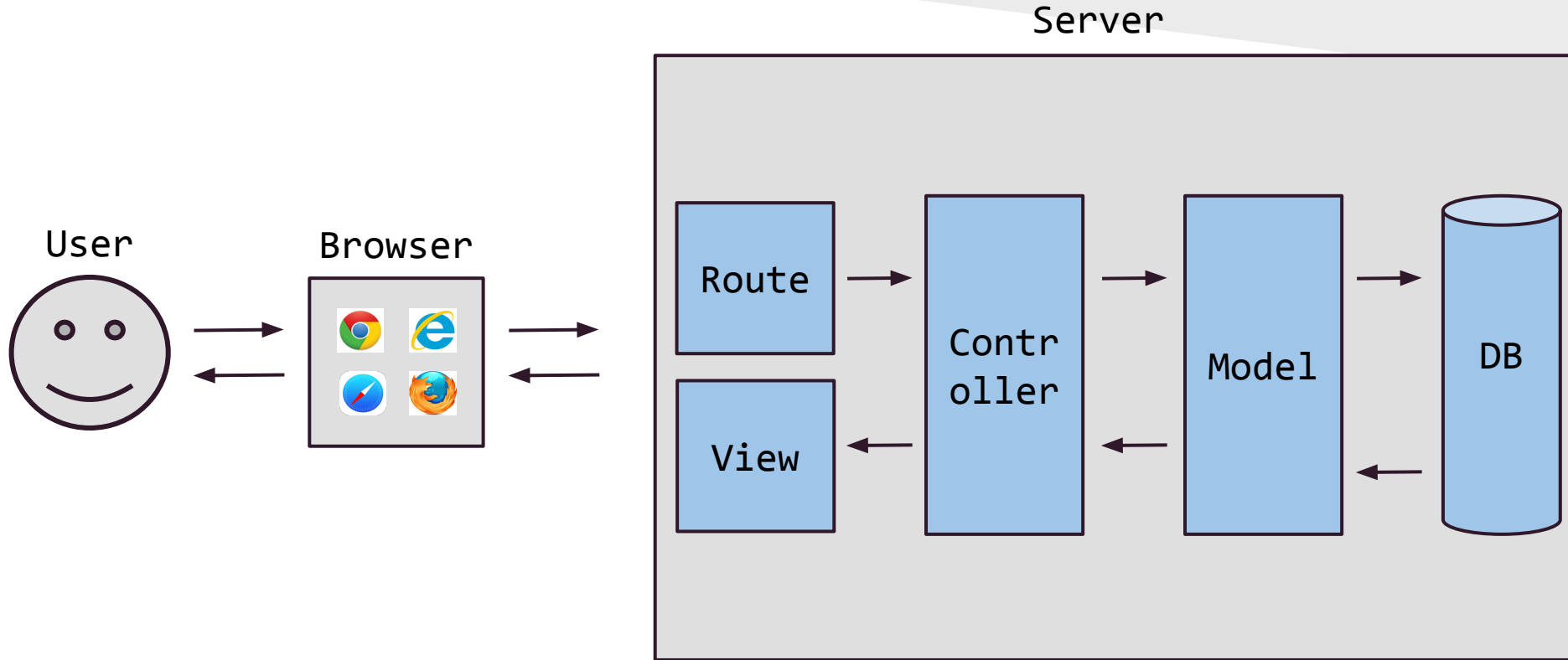


Routing



```
routes.rb
1 Rails.application.routes.draw do
2   resources :topics
3   # For details on the DSL available v
4 end
5
```

Your web application

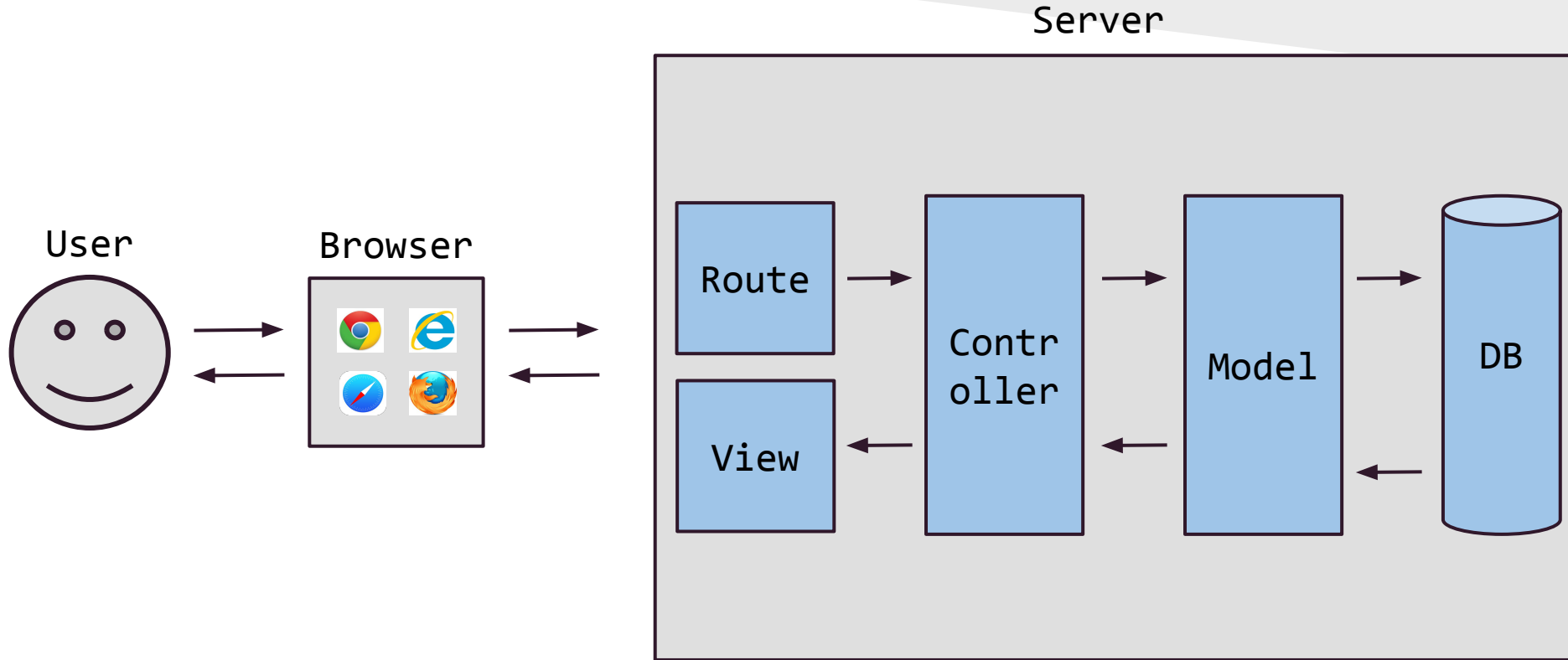


Controller

topics_controller.rb *

```
1 class TopicsController < ApplicationController
2   before_action :set_topic, only: [:show, :edit, :update, :destroy]
3
4   # GET /topics
5   # GET /topics.json
6   def index
7     @topics = Topic.all
8   end
9
```

Your web application



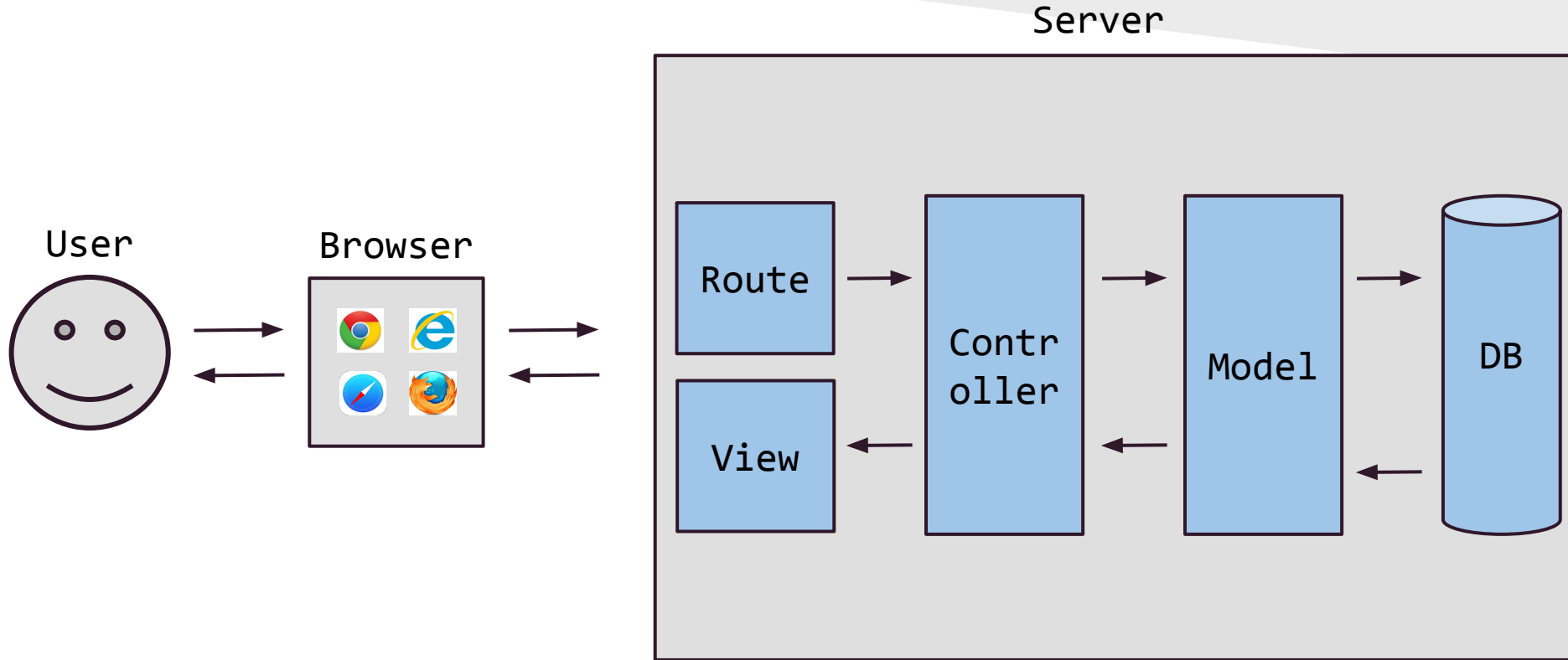
Model

routes.rb

✖

```
1  class Topic < ApplicationRecord
2  end
3
```

Your web application



Database

```
annie=# \c suggestotron_development;
```

```
You are now connected to database "suggestotron_development" as user "annie".
```

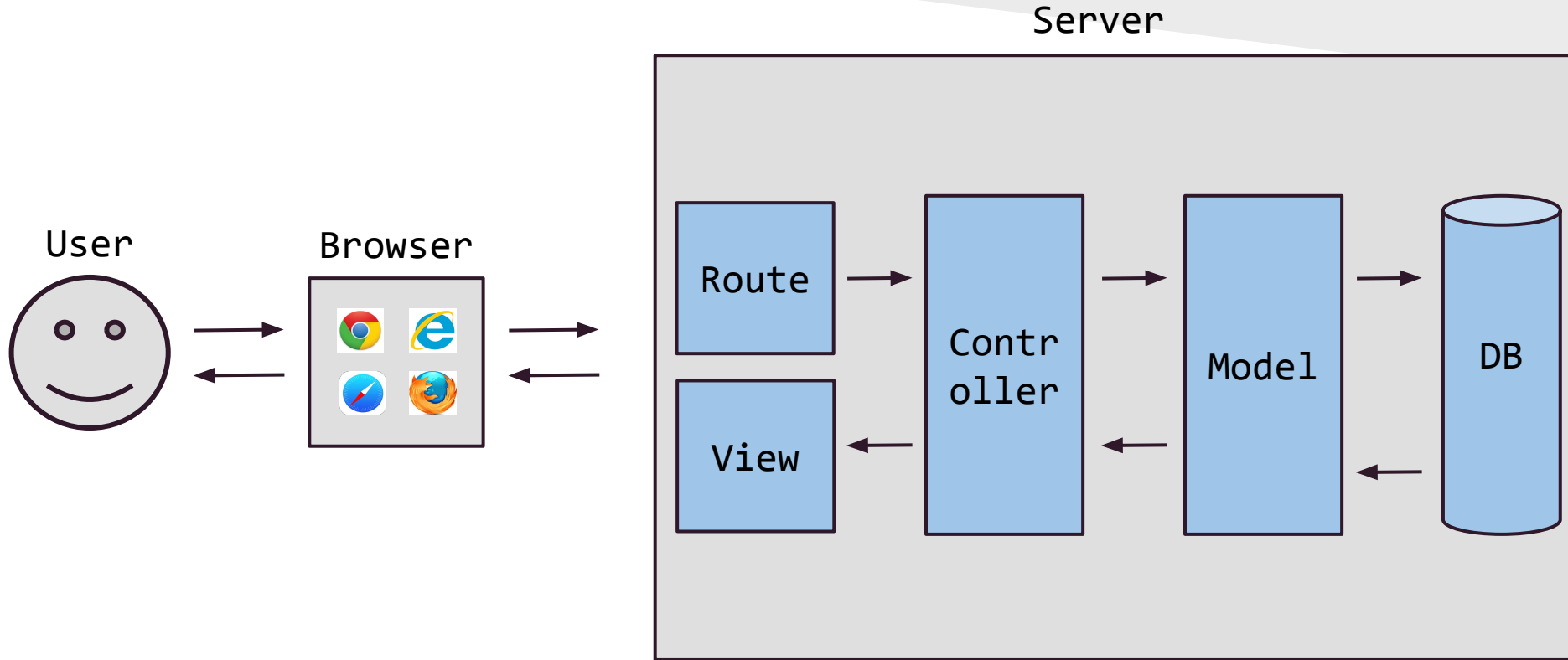
```
suggestotron_development=# SELECT * FROM topics;
```

id	title	description	created_at	updated_at
1	Animals	But only the fun ones.	2016-12-03 16:03:08.053901	2016-12-03 16:03:08.053901
2	Hats	With feathers.	2016-12-03 16:03:20.257354	2016-12-03 16:03:20.257354
3	Programming	With Ruby on Rails!	2016-12-03 16:03:51.99241	2016-12-03 16:03:51.99241

(3 rows)

```
suggestotron_development=#
```

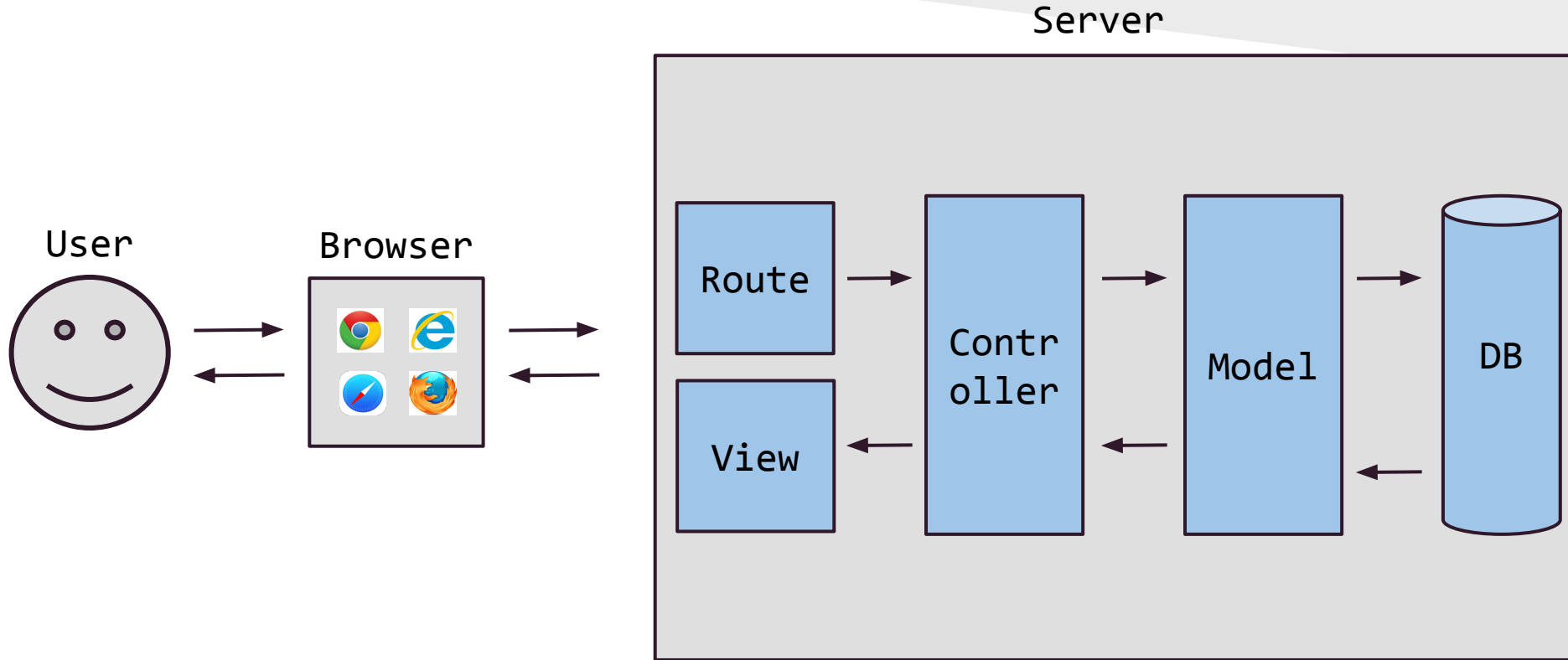

Your web application



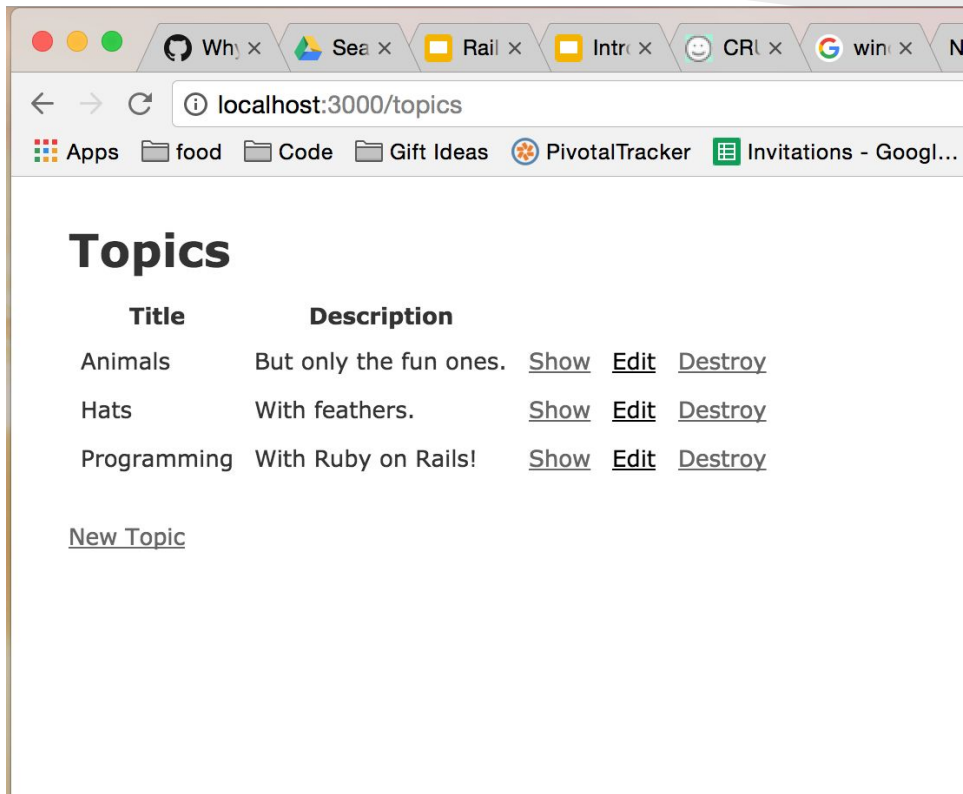
View

```
index.html.erb
1 <p id="notice"><%= notice %></p>
2
3 <h1>Topics</h1>
4
5 <table>
6   <thead>
7     <tr>
8       <th>Title</th>
9       <th>Description</th>
10      <th colspan="3"></th>
11    </tr>
12  </thead>
13
14  <tbody>
15    <%= @topics.each do |topic| %>
16      <tr>
17        <td><%= topic.title %></td>
18        <td><%= topic.description %></td>
19        <td><%= link_to 'Show', topic %></td>
20        <td><%= link_to 'Edit', edit_topic_path(topic) %></td>
21        <td><%= link_to 'Destroy', topic, method: :delete, data:
22          { confirm: 'Are you sure?' } %></td>
23      </tr>
24    <%= end %>
25  </tbody>
26 </table>
27
28 <br>
29 <%= link_to 'New Topic', new_topic_path %>
30
```

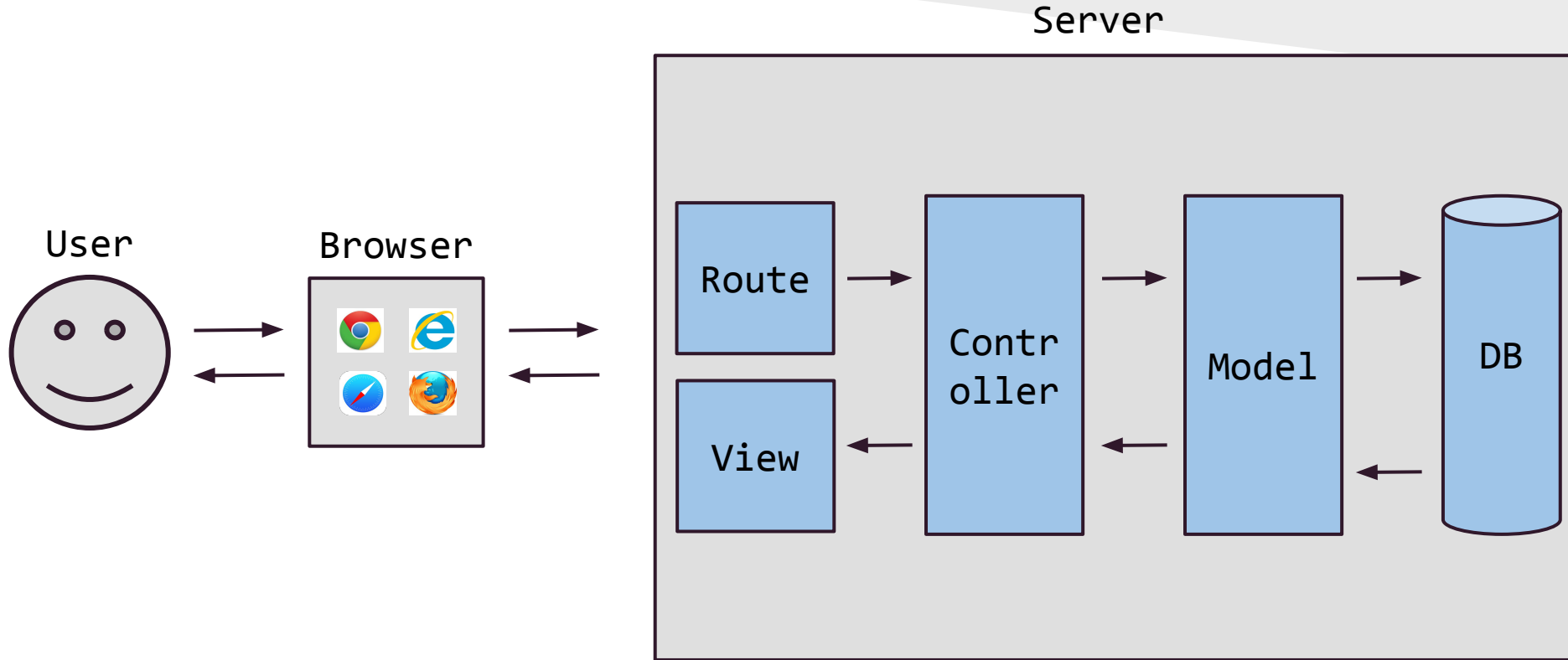
Your web application



You and your browser!



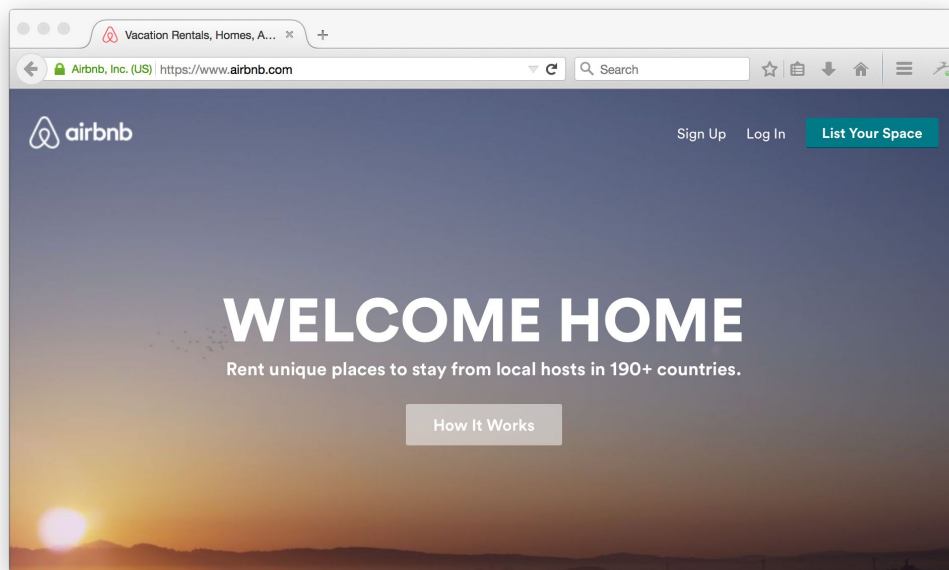
Your web application



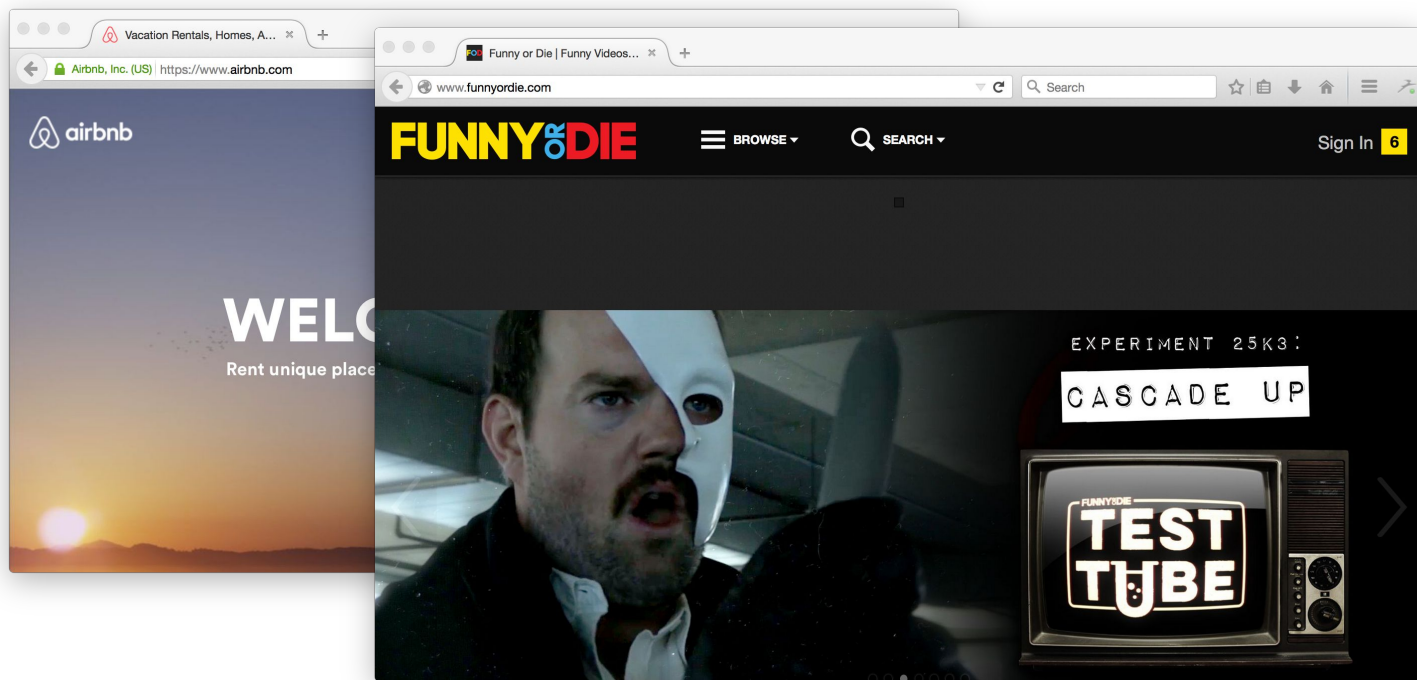
Users	Views	Controllers	Models	Database
DO things GET - show me something POST/PATCH/PUT/DELETE - do something to the data	SHOW things talk to user	CHANGE things talk to both the models and the views	ARE things talk to the database	STORES things
Requests	HTML/CSS (javascript)	ruby	ruby	SQL

Inside a Rails app

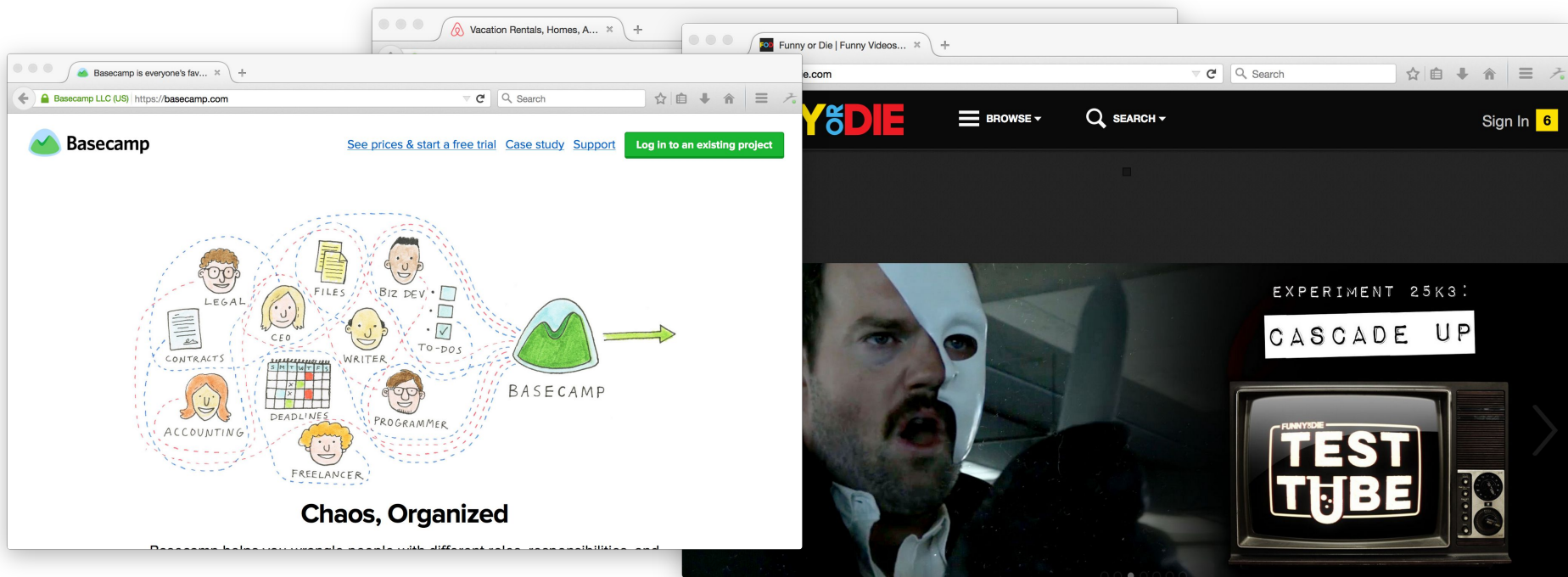
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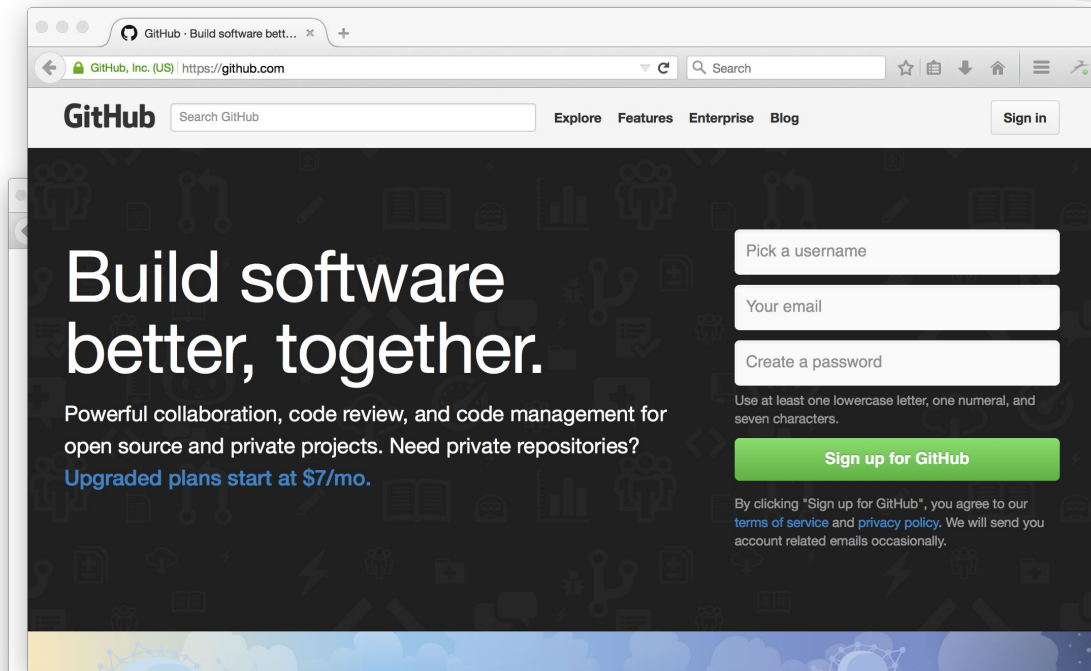
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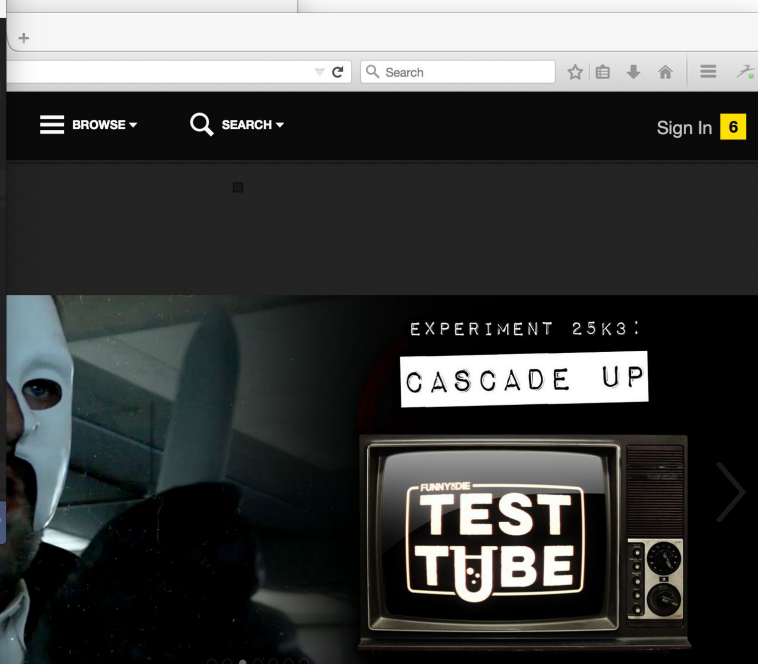
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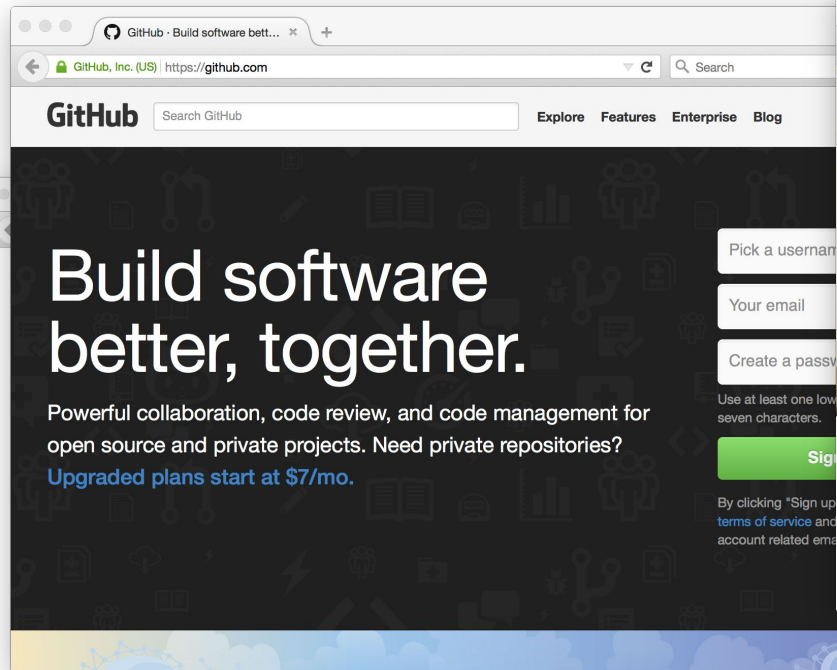
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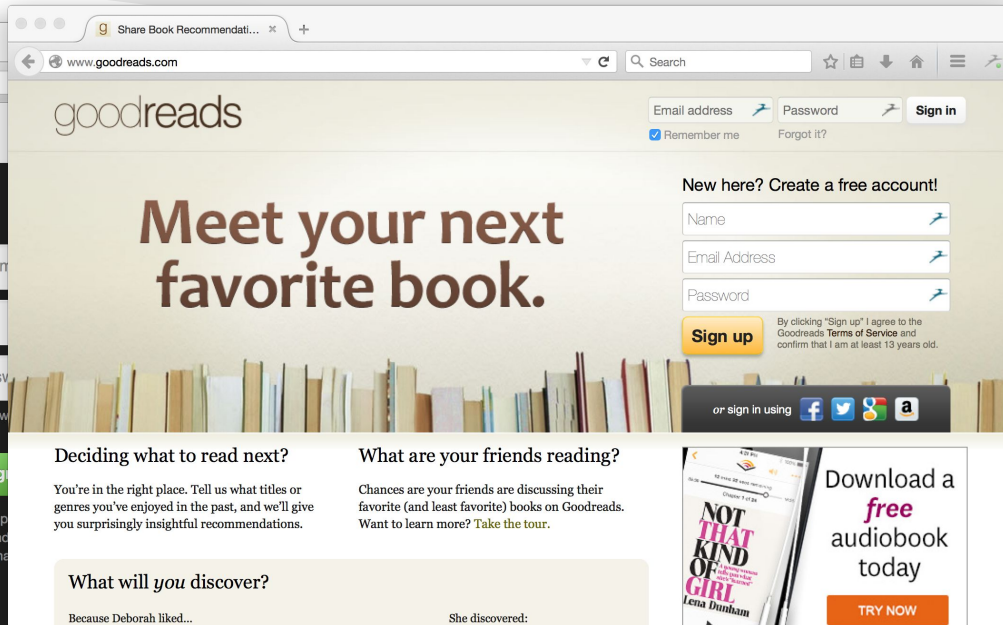
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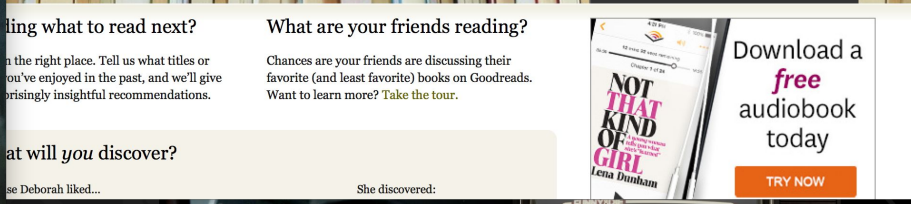
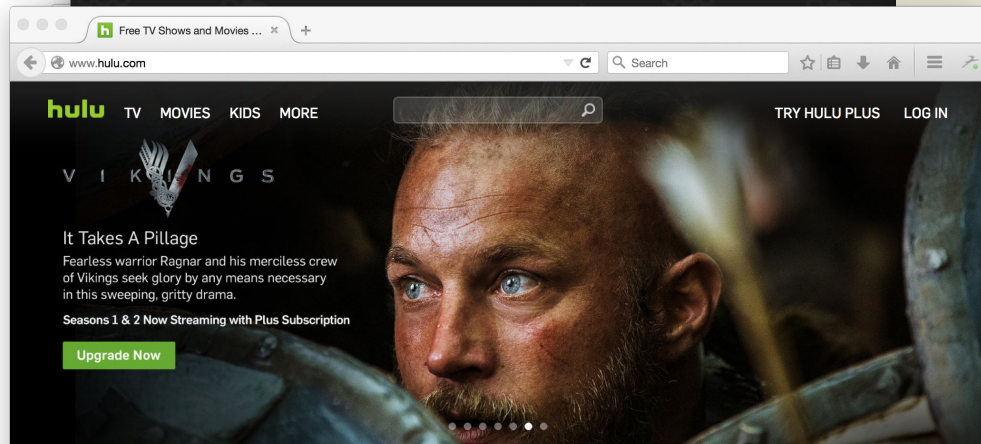
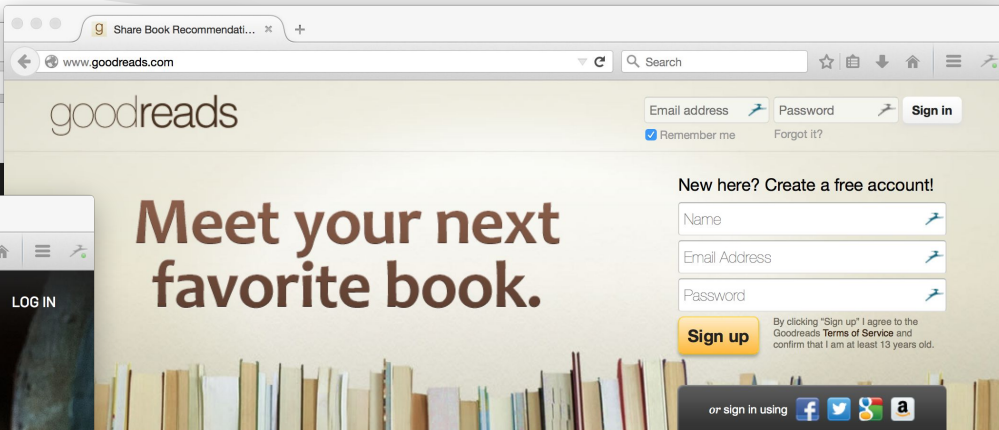
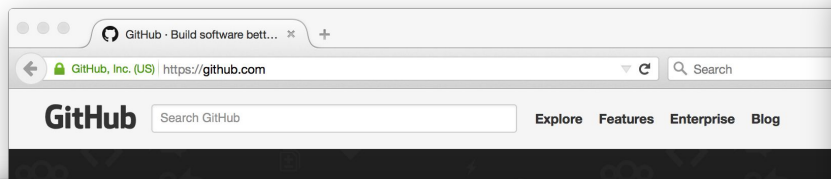


Chaos, Organized



TEST TUBE

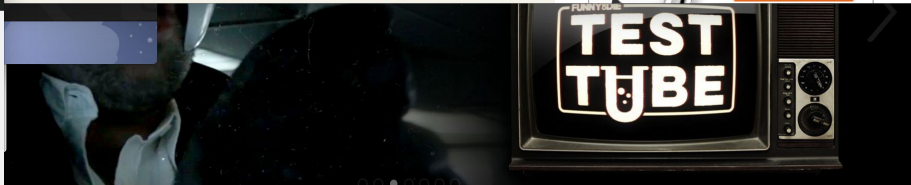
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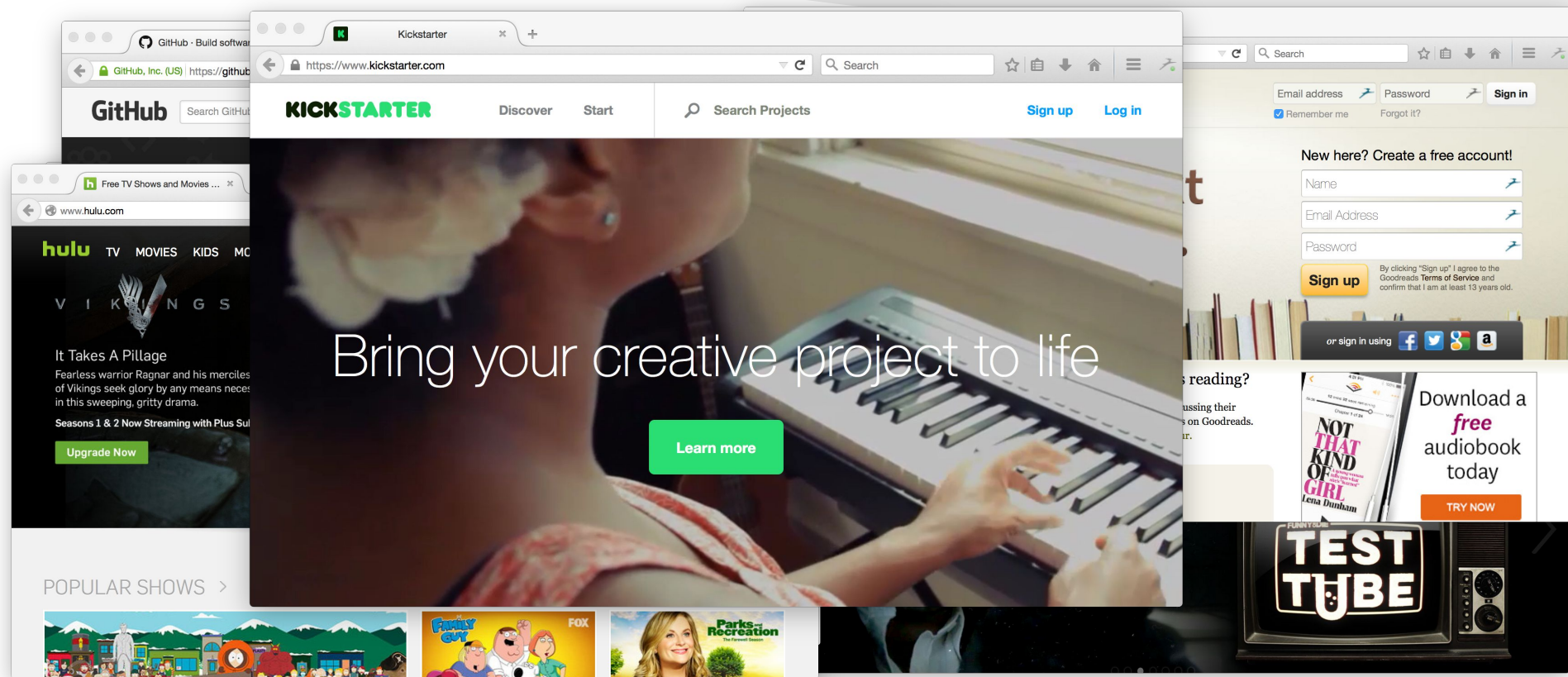
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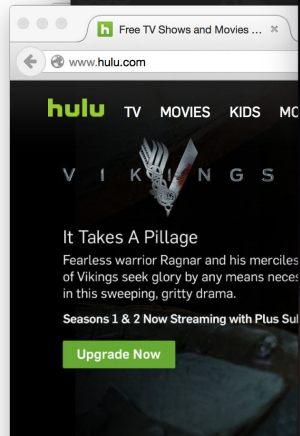
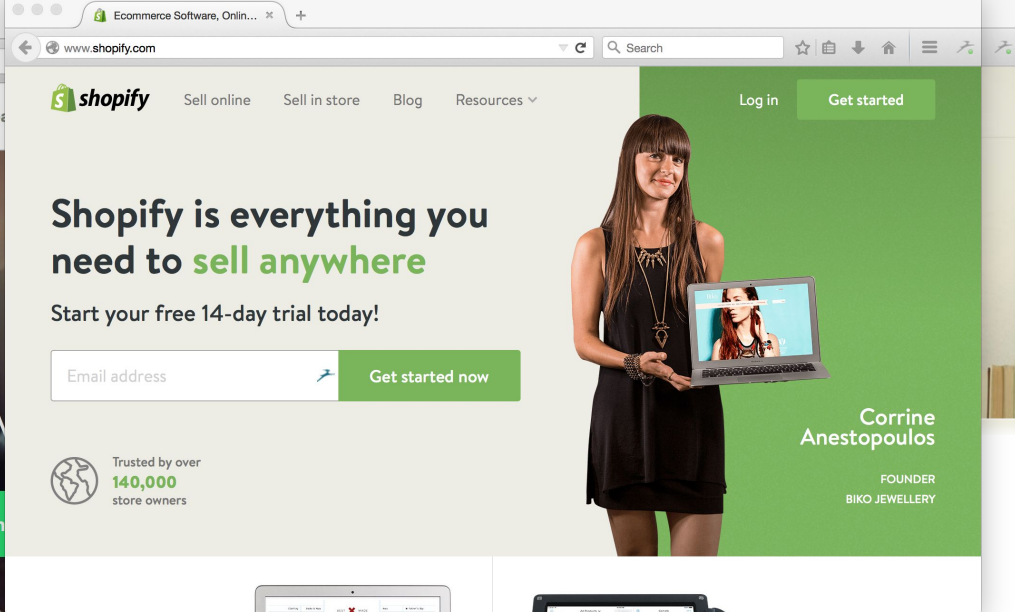
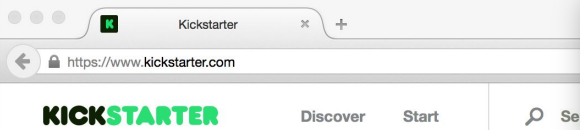
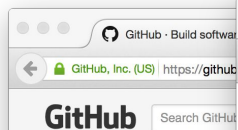
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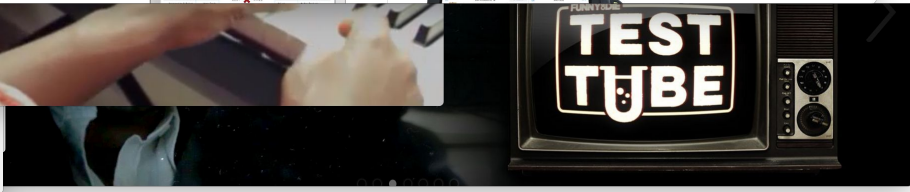
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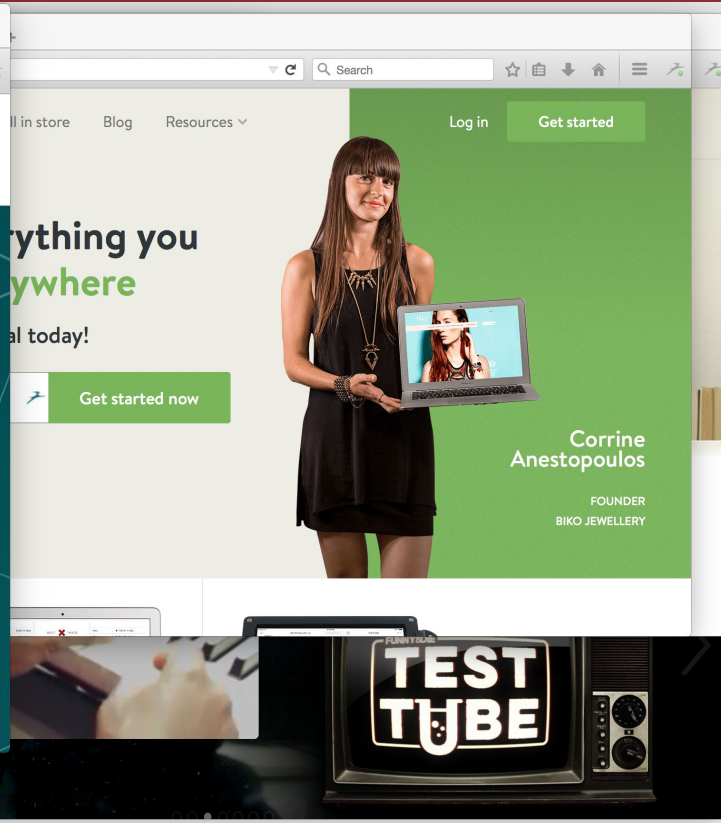
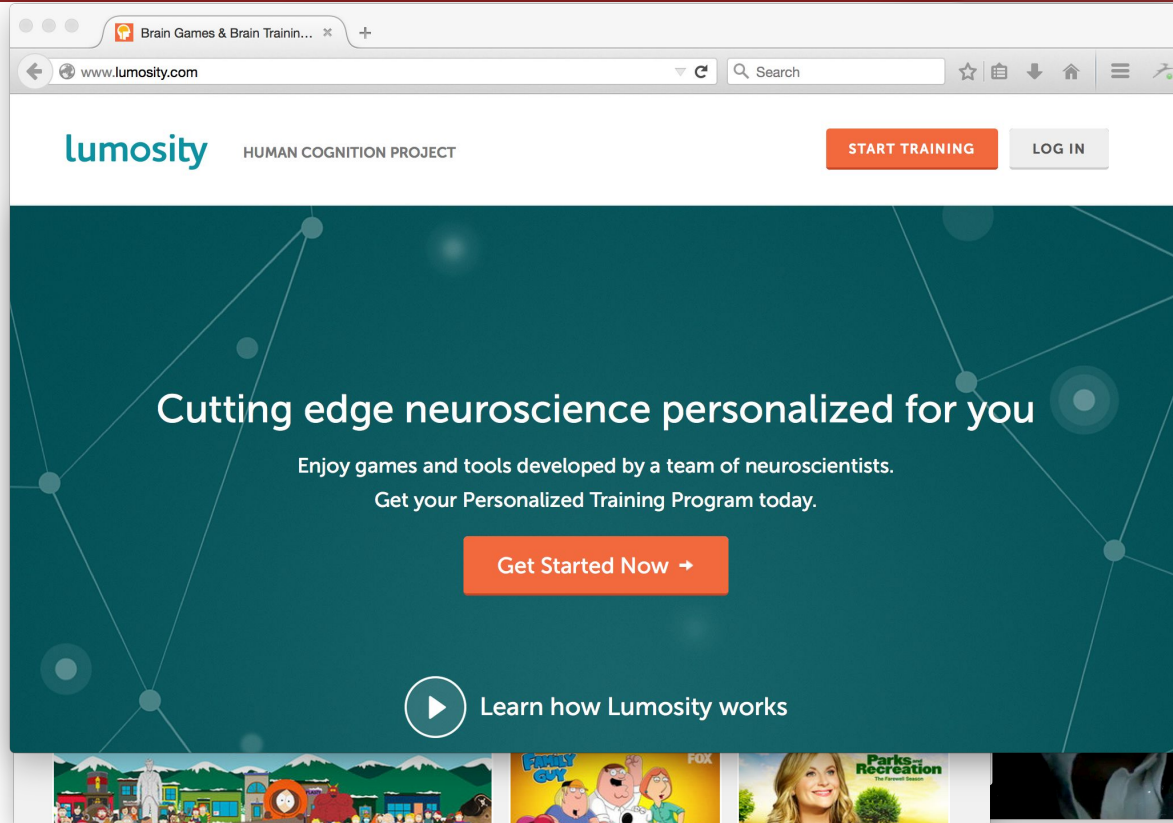
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