

API Deployment

Capstone: Photo Tourist Web Application



In this lecture, we will discuss...

✧ Provisioning Heroku sites

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- ✧ Provisioning Heroku sites
- ✧ Deploying Revisions

In this lecture, we will discuss...

- ✧ Provisioning Heroku sites
- ✧ Deploying Revisions
 - From branches
- ✧ Configuring Remote Application



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Get straight to building apps

Setting up, operating and maintaining your own platform is not where the race is won. Avoid the risk and complexity, and dedicate your energy to what really matters: building great apps.

B

...not infrastructure



DEVELOPERS

Focus on your apps

Invest in apps, not ops. Heroku handles the hard stuff — patching and upgrading, 24/7 ops and security, build systems, failovers, and more — so your developers can stay focused on building great apps.

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Get straight to building apps

Setting up, operating and maintaining your own platform is not where the race is won. Avoid the risk and complexity, and dedicate your energy to what really matters: building great apps.

B

...not infrastructure

bash 241 x bash 242 x bash 243 x bash 244 x bash 245 x v/m 246

```
James-MacBook-Pro:capstone_demoapp jim$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working directory clean
James-MacBook-Pro:capstone_demoapp jim$
```

heroku cr -help

Jamess-MacBook-Pro:capstone_demoapp jim\$ heroku create --help

```
-o, --org ORG           # organization to use
-r, --remote REMOTE     # the git remote to create, default "heroku"
-s, --stack STACK       # the stack to create the app on
--addons ADDONS         # comma-delimited list of addons to install
--region REGION         # specify region for the app to run in
--space SPACE           # the private space to create the app in
--ssh-git               # use SSH git protocol for local git remote
```

Examples:

```
$ heroku apps:create
Creating app... done, stack is cedar-14
https://floating-dragon-42.herokuapp.com/ | https://git.heroku.com/floating-dragon-42.git
```

```
# or just
$ heroku create
```

```
# specify a buildpack
$ heroku apps:create --buildpack https://github.com/some/buildpack.git
```

```
# specify a name
$ heroku apps:create example
```

```
# create a staging app
$ heroku apps:create example-staging --remote staging
```

```
# create an app in the eu region
$ heroku apps:create --region eu
```

```
-o, --org ORG           # organization to use
-r, --remote REMOTE     # the git remote to create, default "heroku"
-s, --stack STACK       # the stack to create the app on
--addons ADDONS         # comma-delimited list of addons to install
--region REGION         # specify region for the app to run in
--space SPACE           # the private space to create the app in
--ssh-git               # use SSH git protocol for local git remote
```

Examples:

```
$ heroku apps:create
Creating app... done, stack is cedar-14
https://floating-dragon-42.herokuapp.com/ | https://git.heroku.com/floating-dragon-42.git
```

or just

```
$ heroku create
```

specify a buildpack

```
$ heroku apps:create --buildpack https://github.com/some/buildpack.git
```

specify a name

```
$ heroku apps:create example
```

create a staging app

```
$ heroku apps:create example-staging --remote staging
```

create an app in the eu region

```
$ heroku apps:create --region eu
```

```
-o, --org ORG           # organization to use
-r, --remote REMOTE     # the git remote to create, default "heroku"
-s, --stack STACK       # the stack to create the app on
--addons ADDONS         # comma-delimited list of addons to install
--region REGION         # specify region for the app to run in
--space SPACE           # the private space to create the app in
--ssh-git               # use SSH git protocol for local git remote
```

Examples:

```
$ heroku apps:create
Creating app... done, stack is cedar-14
https://floating-dragon-42.herokuapp.com/ | https://git.heroku.com/floating-dragon-42.git
```


```
# or just
$ heroku create
```

```
# specify a buildpack
$ heroku apps:create --buildpack https://github.com/some/buildpack.git
```

```
# specify a name
$ heroku apps:create example
```


```
# create a staging app
$ heroku apps:create example-staging --remote staging 1
```


```
# create an app in the eu region
$ heroku apps:create --region eu
```

```
bash 101 X 102 X 103 X 104 X 105 X vim 106
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku create --remote staging
Creating app... done,  glacial-earth-69618
https://glacial-earth-69618.herokuapp.com/ | https://git.heroku.com/glacial-earth-69618.git
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
James-MacBook-Pro:capstone_demoapp jim$ heroku create --remote staging
Creating app... done, glacial-earth-69618
https://glacial-earth-69618.herokuapp.com/ | https://git.heroku.com/glacial-earth-69618.git
James-MacBook-Pro:capstone_demoapp jim$ git remote -v | grep staging
staging https://git.heroku.com/glacial-earth-69618.git (fetch)
staging https://git.heroku.com/glacial-earth-69618.git (push)
James-MacBook-Pro:capstone_demoapp jim$
```



```
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku create --remote production
Creating app... done,  boiling-caverns-35762
https://boiling-caverns-35762.herokuapp.com/ | https://git.heroku.com/boiling-caverns-35762.git
Jamess-MacBook-Pro:capstone_demoapp jim$ git remot
```

```
James-MacBook-Pro:capstone_demoapp jim$ heroku create --remote production
Creating app... done,  boiling-caverns-35762
https://boiling-caverns-35762.herokuapp.com/ | https://git.heroku.com/boiling-caverns-35762.git
James-MacBook-Pro:capstone_demoapp jim$ git remote -v | egrep 'staging|production'
production      https://git.heroku.com/boiling-caverns-35762.git (fetch)
production      https://git.heroku.com/boiling-caverns-35762.git (push)
staging https://git.heroku.com/glacial-earth-69618.git (fetch)
staging https://git.heroku.com/glacial-earth-69618.git (push)
James-MacBook-Pro:capstone_demoapp jim$
```


bash 141 x bash 142 x bash 143 x bash 144 x bash 145 x vim 146

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working directory clean
Jamess-MacBook-Pro:capstone_demoapp jim$
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ git checkout -b staging-app

Switched to a new branch 'staging-app'

Jamess-MacBook-Pro:capstone_demoapp jim\$

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git checkout -b staging-app
```

```
Switched to a new branch 'staging-app'
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git branch
```

```
master
```

```
* staging-app
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git checkout -b staging-app
```

```
Switched to a new branch 'staging-app'
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git branch
```

```
master
```

```
* staging-app
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git push staging staging-app:master
```

```
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: ##### WARNING:
remote: Removing `Gemfile.lock` because it was generated on Windows.
remote: Bundler will do a full resolve so native gems are handled properly.
remote: This may result in unexpected gem versions being used in your app.
remote: In rare occasions Bundler may not be able to resolve your dependencies at all.
remote: https://devcenter.heroku.com/articles/bundler-windows-gemfile
remote:
remote: ##### WARNING:
remote: No Procfile detected, using the default web server.
remote: We recommend explicitly declaring how to boot your server process via a Procfile.
remote: https://devcenter.heroku.com/articles/ruby-default-web-server
remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> (none)
remote: Default types for buildpack -> console, rake, web, worker
remote:
remote: -----> Compressing...
remote: Done: 26.6M
remote: -----> Launching...
remote: Released v5
remote: https://glacial-earth-69618.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/glacial-earth-69618.git
* [new branch]      staging-app -> master
```

```
remote: -----> Preparing app for Rails asset pipeline
remote: Running: rake assets:precompile
remote: Asset precompilation completed (1.72s)
remote: Cleaning assets
remote: Running: rake assets:clean
remote:
remote: ##### WARNING:
remote: You have not declared a Ruby version in your Gemfile.
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: ##### WARNING:
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remote: -----> Discovering process types
remote: Procfile declares types      -> (none)
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remote:
remote: -----> Compressing...
```



```
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remote: Done: 26.6M
remote: -----> Launching...
remote: Released v5
remote: https://glacial-earth-69618.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/glacial-earth-69618.git
* [new branch]      staging-app -> master
```



```
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: ##### WARNING:
remote: Removing `Gemfile.lock` because it was generated on Windows.
remote: Bundler will do a full resolve so native gems are handled properly.
remote: This may result in unexpected gem versions being used in your app.
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remote: https://devcenter.heroku.com/articles/bundler-windows-gemfile
remote:
remote: ##### WARNING:
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remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> (none)
remote: Default types for buildpack -> console, rake, web, worker
remote:
remote: -----> Compressing...
remote: Done: 26.6M
remote: -----> Launching...
remote: Released v5
remote: https://glacial-earth-69618.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/glacial-earth-69618.git
* [new branch]      staging-app -> master
```

The page you were looking for doesn't exist.

You may have mistyped the address or the page may
have moved.

If you are the application owner check the logs for more information.

```
{ "status": "500", "error": "Internal Server Error" }
```



```
{ "status": "500", "error": "Internal Server Error" }
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails g controller ui
Running via Spring preloader in process 3442
Expected string default value for '--jbuilder'; got true (boolean)
Expected string default value for '--helper'; got false (boolean)
Expected string default value for '--assets'; got false (boolean)
  create  app/controllers/ui_controller.rb
  invoke  rspec
  create  spec/controllers/ui_controller_spec.rb
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails g controller ui
```

```
Running via Spring preloader in process 3442
```

```
Expected string default value for '--jbuilder'; got true (boolean)
```

```
Expected string default value for '--helper'; got false (boolean)
```

```
Expected string default value for '--assets'; got false (boolean)
```

```
  create  app/controllers/ui_controller.rb
```

```
  invoke  rspec
```

```
  create  spec/controllers/ui_controller_spec.rb
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ mkdir app/views/ui
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ echo "Capstone Site Under Construction -- check back soon"
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ rails g controller ui
Running via Spring preloader in process 3442
Expected string default value for '--jbuilder'; got true (boolean)
Expected string default value for '--helper'; got false (boolean)
Expected string default value for '--assets'; got false (boolean)
  create  app/controllers/ui_controller.rb
  invoke  rspec
  create  spec/controllers/ui_controller_spec.rb
Jamess-MacBook-Pro:capstone_demoapp jim$ mkdir app/views/ui
Jamess-MacBook-Pro:capstone_demoapp jim$ echo "Capstone Site Under Construction -- check back soon" > app/views/
ui/index.html.erb
Jamess-MacBook-Pro:capstone_demoapp jim$
```



```
1 Rails.application.routes.draw do
2   scope :api, defaults: {format: :json} do
3     resources :foos, except: [:new, :edit]
4     resources :bars, except: [:new, :edit]
5   end
6
7   root "ui#index"
8 end
```



```
1 Rails.application.routes.draw do
2   scope :api, defaults: {format: :json} do
3     resources :foos, except: [:new, :edit]
4     resources :bars, except: [:new, :edit]
5   end
6
7   get '/ui' => 'ui#index'
8   get '/ui#' => 'ui#index'
9   root "ui#index"
10 end
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: config/routes.rb

Untracked files:

(use "git add <file>..." to include in what will be committed)

app/controllers/ui_controller.rb

app/views/ui/

spec/controllers/

no changes added to commit (use "git add" and/or "git commit -a")

```
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
James-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: config/routes.rb

Untracked files:

(use "git add <file>..." to include in what will be committed)

app/controllers/ui_controller.rb

app/views/ui/

spec/controllers/

no changes added to commit (use "git add" and/or "git commit -a")

```
James-MacBook-Pro:capstone_demoapp jim$ rm spec/controllers/ui_controller_spec.rb
```

```
James-MacBook-Pro:capstone_demoapp jim$ git
```

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: config/routes.rb

Untracked files:

(use "git add <file>..." to include in what will be committed)

app/controllers/ui_controller.rb

app/views/ui/

spec/controllers/

no changes added to commit (use "git add" and/or "git commit -a")

Jamess-MacBook-Pro:capstone_demoapp jim\$ rm spec/controllers/ui_controller_spec.rb

Jamess-MacBook-Pro:capstone_demoapp jim\$ git diff config/routes.rb

diff --git a/config/routes.rb b/config/routes.rb

index 0f42d4c..ca90221 100755

--- a/config/routes.rb

+++ b/config/routes.rb

@@ -3,4 +3,8 @@ Rails.application.routes.draw do

resources :foos, except: [:new, :edit]

resources :bars, except: [:new, :edit]

end

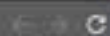
+

+ get '/ui' => 'ui#index'

+ get '/ui#' => 'ui#index'

+ root "ui#index"

end



localhost:3000 - localhost

localhost:3000/#/images - Action Controller: Exception caught

localhost:3000/api/foos - localhost

local - Google Search

localhost:3000/# - localhost



You've gone incognito

Pages you view in incognito tabs won't stick around in your browser's history, cookie store, or search history after you've closed all of your incognito tabs. Any files you download or bookmarks you create will be kept.

However, you aren't invisible. Going incognito doesn't hide your browsing from your employer, your internet service provider, or the websites you visit.

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Capstone Site Under Construction -- check back soon


```
James-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: config/routes.rb

modified: db/schema.rb

Untracked files:

(use "git add <file>..." to include in what will be committed)

app/controllers/ui_controller.rb

app/views/ui/

no changes added to commit (use "git add" and/or "git commit -a")

```
James-MacBook-Pro:capstone_demoapp jim$ g
```



```
James-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: config/routes.rb

modified: db/schema.rb

Untracked files:

(use "git add <file>..." to include in what will be committed)

app/controllers/ui_controller.rb

app/views/ui/

no changes added to commit (use "git add" and/or "git commit -a")

```
James-MacBook-Pro:capstone_demoapp jim$ git branch
```

master

* staging-app

```
James-MacBook-Pro:capstone_demoapp jim$ git
```

```
James-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: config/routes.rb

modified: db/schema.rb

Untracked files:

(use "git add <file>..." to include in what will be committed)

app/controllers/ui_controller.rb

app/views/ui/

no changes added to commit (use "git add" and/or "git commit -a")

```
James-MacBook-Pro:capstone_demoapp jim$ git branch
```

master

* staging-app

```
James-MacBook-Pro:capstone_demoapp jim$ git add -A
```

```
James-MacBook-Pro:capstone_demoapp jim$ git commit -m "added main page with construction"
```

[staging-app 0420736] added main page with construction

4 files changed, 32 insertions(+), 25 deletions(-)

create mode 100644 app/controllers/ui_controller.rb

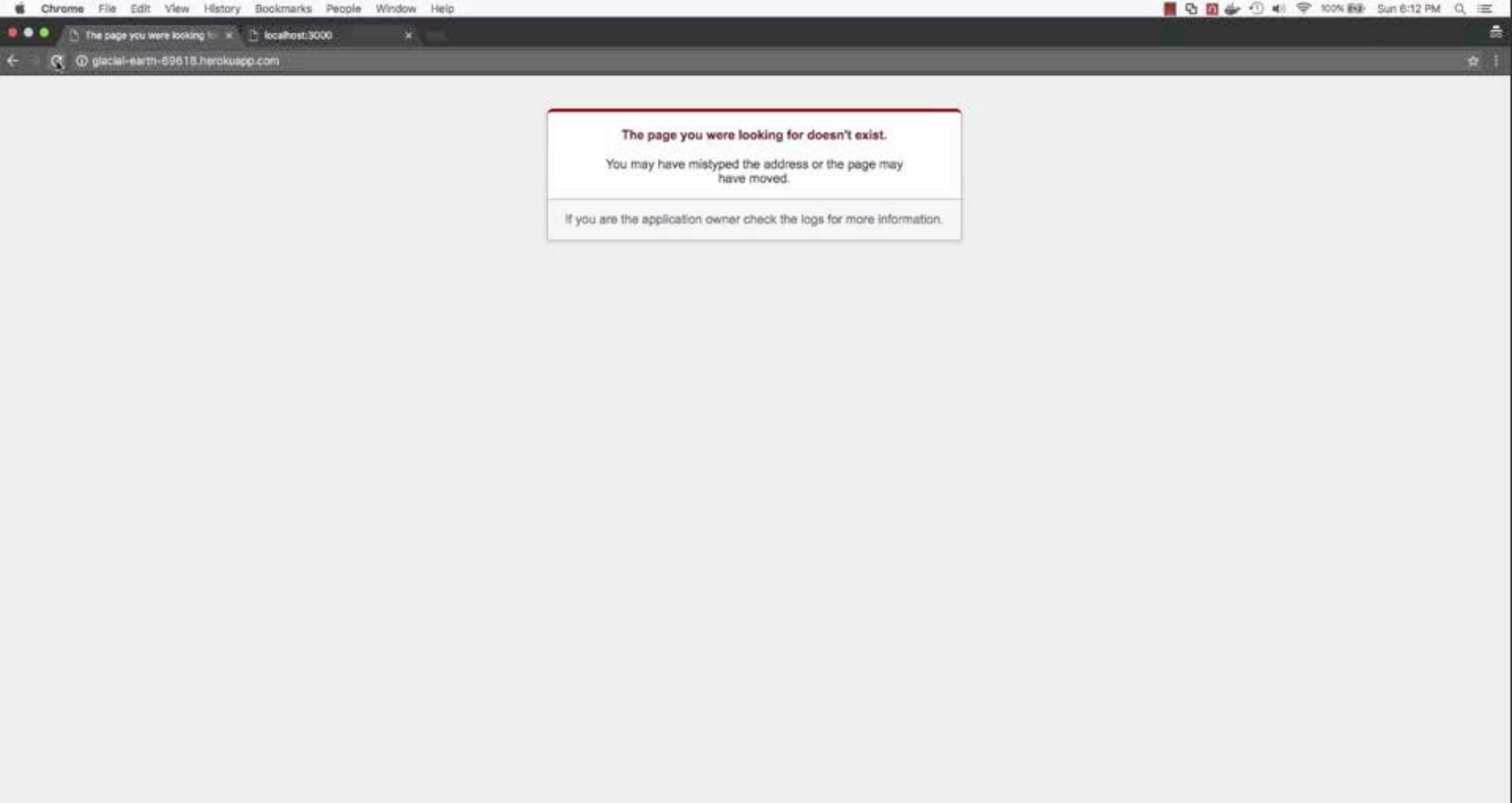
create mode 100644 app/views/ui/index.html.erb

```
James-MacBook-Pro:capstone_demoapp jim$
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git push staging staging-app:master
Counting objects: 12, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 1.12 KiB | 0 bytes/s, done.
Total 12 (delta 6), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Ruby app detected
remote: -----> Compiling Ruby/Rails
remote: -----> Using Ruby version: ruby-2.2.6
remote: ##### WARNING:
remote:      Removing `Gemfile.lock` because it was generated on Windows.
remote:      Bundler will do a full resolve so native gems are handled properly.
remote:      This may result in unexpected gem versions being used in your app.
remote:      In rare occasions Bundler may not be able to resolve your dependencies at all.
remote:      https://devcenter.heroku.com/articles/bundler-windows-gemfile
remote:
remote: -----> Installing dependencies using bundler 1.13.6
remote:      Running: bundle install --without development:test --path vendor/bundle --binstubs vendor/bundle/
bin -j4
remote:      Fetching gem metadata from https://rubygems.org/.....
```



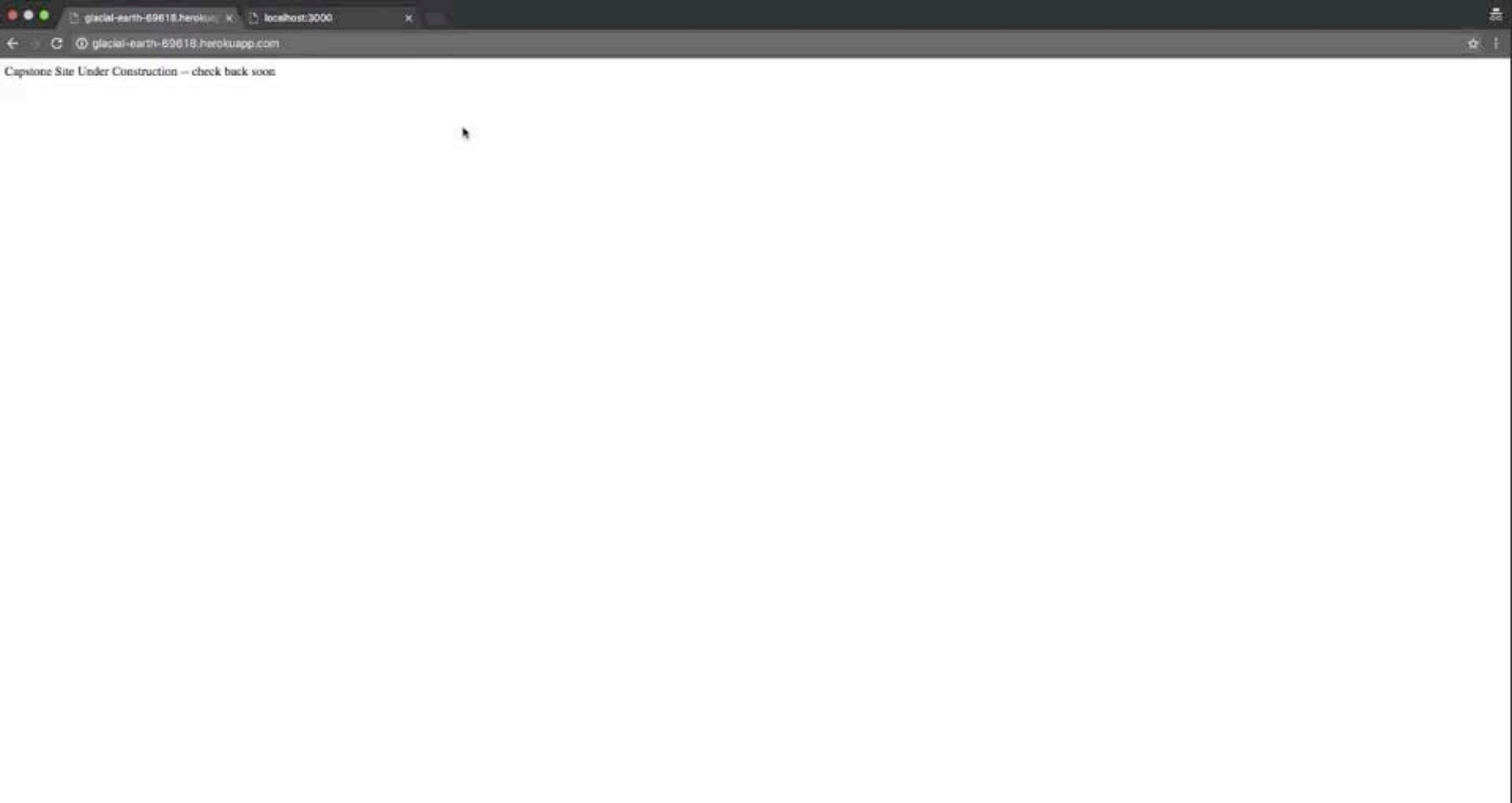
```
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: ##### WARNING:
remote: Removing `Gemfile.lock` because it was generated on Windows.
remote: Bundler will do a full resolve so native gems are handled properly.
remote: This may result in unexpected gem versions being used in your app.
remote: In rare occasions Bundler may not be able to resolve your dependencies at all.
remote: https://devcenter.heroku.com/articles/bundler-windows-gemfile
remote:
remote: ##### WARNING:
remote: No Procfile detected, using the default web server.
remote: We recommend explicitly declaring how to boot your server process via a Procfile.
remote: https://devcenter.heroku.com/articles/ruby-default-web-server
remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> (none)
remote: Default types for buildpack -> console, rake, web, worker
remote:
remote: -----> Compressing...
remote: Done: 26.6M
remote: -----> Launching...
remote: Released v6
remote: https://glacial-earth-69618.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy.... done.
To https://git.heroku.com/glacial-earth-69618.git
29956e1..0420736 staging-app -> master
```

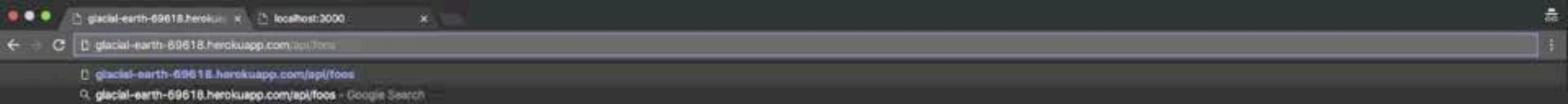


The page you were looking for doesn't exist.

You may have mistyped the address or the page may have moved.

If you are the application owner check the logs for more information.





Capstone Site Under Construction -- check back soon

```
2016-12-04T23:12:13.565982+00:00 heroku[router]: at=info method=GET path="/" host=glacial-earth-69618.herokuapp.com request_id=17a23813-29e6-4b13-809b-10aabe2f58a0 fwd="73.212.64.7" dyno=web.1 connect=1ms service=133ms status=200 bytes=433
2016-12-04T23:12:13.596269+00:00 heroku[router]: at=info method=GET path="/favicon.ico" host=glacial-earth-69618.herokuapp.com request_id=aee55763-9eb8-4e58-b2d8-24c141cd308d fwd="73.212.64.7" dyno=web.1 connect=1ms service=2ms status=200 bytes=143
2016-12-04T23:12:31.284515+00:00 heroku[router]: at=info method=GET path="/api/foos" host=glacial-earth-69618.herokuapp.com request_id=90a57c6e-da4c-4fcf-8029-f54b0acc14c7 fwd="73.212.64.7" dyno=web.1 connect=1ms service=13ms status=500 bytes=259
2016-12-04T23:12:31.318961+00:00 heroku[router]: at=info method=GET path="/favicon.ico" host=glacial-earth-69618.herokuapp.com request_id=d404f7e1-ea9e-40f0-88b0-0dacf01d74cc fwd="73.212.64.7" dyno=web.1 connect=1ms service=2ms status=304 bytes=48
2016-12-04T23:12:31.272443+00:00 app[web.1]: Started GET "/api/foos" for 73.212.64.7 at 2016-12-04 23:12:31 +0000
2016-12-04T23:12:31.274838+00:00 app[web.1]: Processing by FoosController#index as JSON
2016-12-04T23:12:31.280864+00:00 app[web.1]:   Foo Load (1.0ms)  SELECT "foos".* FROM "foos"
2016-12-04T23:12:31.281386+00:00 app[web.1]:   Rendered foos/index.json.jbuilder (2.7ms)
2016-12-04T23:12:31.281557+00:00 app[web.1]: Completed 500 Internal Server Error in 7ms (ActiveRecord: 1.0ms)
2016-12-04T23:12:31.283136+00:00 app[web.1]:
2016-12-04T23:12:31.283138+00:00 app[web.1]: ActionView::Template::Error (PG::UndefinedTable: ERROR:  relation "foos" does not exist
2016-12-04T23:12:31.283138+00:00 app[web.1]: LINE 1: SELECT "foos".* FROM "foos"
2016-12-04T23:12:31.283139+00:00 app[web.1]:                                ^
2016-12-04T23:12:31.283139+00:00 app[web.1]: : SELECT "foos".* FROM "foos");
2016-12-04T23:12:31.283140+00:00 app[web.1]:    1: json.array! @foos, partial: 'foos/foo', as: :foo
2016-12-04T23:12:31.283141+00:00 app[web.1]:    app/views/foos/index.json.jbuilder:1:in `_app_views_foos_index_js
on_jbuilder__1454757974316300545_70153712535360'
2016-12-04T23:12:31.283141+00:00 app[web.1]:
2016-12-04T23:12:31.283142+00:00 app[web.1]:
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ heroku logs --remote staging


```
2016-12-04T23:12:13.565982+00:00 heroku[router]: at=info method=GET path="/" host=glacial-earth-69618.herokuapp.com request_id=17a23813-29e6-4b13-809b-10aabe2f58a0 fwd="73.212.64.7" dyno=web.1 connect=1ms service=133ms status=200 bytes=433
2016-12-04T23:12:13.596269+00:00 heroku[router]: at=info method=GET path="/favicon.ico" host=glacial-earth-69618.herokuapp.com request_id=aee55763-9eb8-4e58-b2d8-24c141cd308d fwd="73.212.64.7" dyno=web.1 connect=1ms service=2ms status=200 bytes=143
2016-12-04T23:12:31.284515+00:00 heroku[router]: at=info method=GET path="/api/foos" host=glacial-earth-69618.herokuapp.com request_id=90a57c6e-da4c-4fcf-8029-f54b0acc14c7 fwd="73.212.64.7" dyno=web.1 connect=1ms service=13ms status=500 bytes=259
2016-12-04T23:12:31.318961+00:00 heroku[router]: at=info method=GET path="/favicon.ico" host=glacial-earth-69618.herokuapp.com request_id=d404f7e1-ea9e-40f0-88b0-0dacf01d74cc fwd="73.212.64.7" dyno=web.1 connect=1ms service=2ms status=304 bytes=48
2016-12-04T23:12:31.272443+00:00 app[web.1]: Started GET "/api/foos" for 73.212.64.7 at 2016-12-04 23:12:31 +0000
2016-12-04T23:12:31.274838+00:00 app[web.1]: Processing by FoosController#index as JSON
2016-12-04T23:12:31.280864+00:00 app[web.1]:   Foo Load (1.0ms)  SELECT "foos".* FROM "foos"
2016-12-04T23:12:31.281386+00:00 app[web.1]:   Rendered foos/index.json.jbuilder (2.7ms)
2016-12-04T23:12:31.281557+00:00 app[web.1]: Completed 500 Internal Server Error in 7ms (ActiveRecord: 1.0ms)
2016-12-04T23:12:31.283136+00:00 app[web.1]:
2016-12-04T23:12:31.283138+00:00 app[web.1]: ActionView::Template::Error (PG::UndefinedTable: ERROR:  relation "foos" does not exist
2016-12-04T23:12:31.283138+00:00 app[web.1]: LINE 1: SELECT "foos".* FROM "foos"
2016-12-04T23:12:31.283139+00:00 app[web.1]:                                ^
2016-12-04T23:12:31.283139+00:00 app[web.1]: : SELECT "foos".* FROM "foos");
2016-12-04T23:12:31.283140+00:00 app[web.1]:    1: json.array! @foos, partial: 'foos/foo', as: :foo
2016-12-04T23:12:31.283141+00:00 app[web.1]:    app/views/foos/index.json.jbuilder:1:in `_app_views_foos_index_js
on_jbuilder__1454757974316300545_70153712535360'
2016-12-04T23:12:31.283141+00:00 app[web.1]:
2016-12-04T23:12:31.283142+00:00 app[web.1]:
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku run rake db:migrate --remote staging
Running rake db:migrate on glacial-earth-69618... up, run.5722 (Free)
(8.4ms) CREATE TABLE "schema_migrations" ("version" character varying NOT NULL)
(3.9ms) CREATE UNIQUE INDEX "unique_schema_migrations" ON "schema_migrations" ("version")
ActiveRecord::SchemaMigration Load (0.7ms) SELECT "schema_migrations".* FROM "schema_migrations"
Migrating to CreateFoos (20161202054453)
(0.6ms) BEGIN
== 20161202054453 CreateFoos: migrating =====
-- create_table(:foos)
(7.5ms) CREATE TABLE "foos" ("id" serial primary key, "name" character varying, "created_at" timestamp NOT N
ULL, "updated_at" timestamp NOT NULL)
-> 0.0085s
== 20161202054453 CreateFoos: migrated (0.0087s) =====

SQL (0.7ms) INSERT INTO "schema_migrations" ("version") VALUES ($1) [["version", "20161202054453"]]
(6.1ms) COMMIT
Jamess-MacBook-Pro:capstone_demoapp jim$
```

[]

[]


```
{ "status": "500", "error": "Internal Server  
Error" }
```

```
James-MacBook-Pro:capstone_demoapp jim$ heroku config --remote staging
==== glacial-earth-69618 Config Vars
DATABASE_URL:      postgres://lbuinraxfqxdds:Dxc6wcXY0F0iFjh0A2QpAyDBTE@ec2-54-235-123-159.compute-1.amazonaws.com:5432/d83tkmk8s44aup
LANG:              en_US.UTF-8
RACK_ENV:          production
RAILS_ENV:         production
RAILS_SERVE_STATIC_FILES: enabled
SECRET_KEY_BASE:   d7586cbbbe1206547b324569eafdbadccc9ace89075288cefdbb91ca8db1fbd9e608c96c00f98a1baf10ce22d579acbb6d379c7da9b1036664354dee2000ef9d
James-MacBook-Pro:capstone_demoapp jim$
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ cat config/database.yml

default: &default

adapter: postgresql

encoding: unicode

pool: 5

username: <%= ENV['POSTGRES_USER'] %>

password: <%= ENV['POSTGRES_PASSWORD'] %>

host: <%= ENV['POSTGRES_HOST'] %>

development:

<<: *default

database: capstone_demoapp_development

test:

<<: *default

database: capstone_demoapp_test

production:

adapter: postgresql

encoding: unicode

pool: 5

url: <%= ENV['DATABASE_URL'] %>

Jamess-MacBook-Pro:capstone_demoapp jim\$ █

Jamess-MacBook-Pro:capstone_demoapp jim\$ cat config/database.yml

```
default: &default
  adapter: postgresql
  encoding: unicode
  pool: 5
  username: <%= ENV['POSTGRES_USER'] %>
  password: <%= ENV['POSTGRES_PASSWORD'] %>
  host: <%= ENV['POSTGRES_HOST'] %>
```

development:

```
<<: *default
database: capstone_demoapp_development
```

test:

```
<<: *default
database: capstone_demoapp_test
```

production:

```
adapter: postgresql
encoding: unicode
pool: 5
url: <%= ENV['DATABASE_URL'] %>
```

Jamess-MacBook-Pro:capstone_demoapp jim\$ █

James-MacBook-Pro:capstone_demoapp jim\$ cat config/mongoid.yml

development:

clients:

default:

database: myapp_development

hosts:

- <%= ENV['MONGO_HOST'] ||= "localhost:27017" %>

options:

options:

test:

clients:

default:

database: myapp_test

hosts:

- <%= ENV['MONGO_HOST'] ||= "localhost:27017" %>

options:

read:

mode: :primary

max_pool_size: 1

production:

clients:

default:

uri: <%= ENV['MLAB_URI'] %>

options:

connect_timeout: 15

James-MacBook-Pro:capstone_demoapp jim\$

James-MacBook-Pro:capstone_demoapp jim\$ cat config/mongoid.yml

development:

clients:

default:

database: myapp_development

hosts:

- <%= ENV['MONGO_HOST'] ||= "localhost:27017" %>

options:

options:

test:

clients:

default:

database: myapp_test

hosts:

- <%= ENV['MONGO_HOST'] ||= "localhost:27017" %>

options:

read:

mode: :primary

max_pool_size: 1

production:

clients:

default:

uri: <%= ENV['MLAB_URI'] %>

options:

connect_timeout: 15

James-MacBook-Pro:capstone_demoapp jim\$

```
James-MacBook-Pro:capstone_demoapp jim$ heroku config --help
```

```
Usage: heroku config
```

display the config vars for an app

```
-a, --app APP          # app to run command against
-r, --remote REMOTE    # git remote of app to run command against
-s, --shell            # output config vars in shell format
--json                # output config vars in json format
```

Additional commands, type "heroku help COMMAND" for more details:

```
config:get KEY          # display a config value for an app
config:set KEY1=VALUE1 [KEY2=VALUE2 ...] # set one or more config vars
config:unset KEY1 [KEY2 ...] # unset one or more config vars
```

```
James-MacBook-Pro:capstone_demoapp jim$
```



```
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku config:set MLAB_URI
```

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Database: lecture_staging

To connect using the mongo shell:

```
% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
```

To connect using a driver via the standard MongoDB URI ([what's this?](#)):

```
mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

[help](#)

Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our [guide to running](#)

[Collections](#)[Users](#)[Stats](#)

[Home](#)

Database: lecture_staging

To connect using the mongo shell:

```
% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
```

To connect using a driver via the standard MongoDB URI ([what's this?](#)):

```
mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

[help](#)

Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our [guide to running](#)

[Collections](#)[Users](#)[Stats](#)

```
James-MacBook-Pro:capstone_demoapp jim$ heroku config:set MLAB_URI=mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

```
James-MacBook-Pro:capstone_demoapp jim$ heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging
Error: Multiple apps in git remotes
Usage: heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging --remote production
or: heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging --app boiling-caverns-35762

Your local git repository has more than 1 app referenced in git remotes.
Because of this, we can't determine which app you want to run this command against.
Specify the app you want with --app or --remote.

Heroku remotes in repo:
production      (boiling-caverns-35762)
staging         (glacial-earth-69618)

https://devcenter.heroku.com/articles/multiple-environments
Jamess-MacBook-Pro:capstone_demoapp jim$
```



```
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging
Error: Multiple apps in git remotes
Usage: heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging --remote production
or: heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging --app boiling-caverns-35762

Your local git repository has more than 1 app referenced in git remotes.
Because of this, we can't determine which app you want to run this command against.
Specify the app you want with --app or --remote.

Heroku remotes in repo:
production      (boiling-caverns-35762)
staging         (glacial-earth-69618)

https://devcenter.heroku.com/articles/multiple-environments
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku config:set MLAB_URI=mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging --remote staging
Setting MLAB_URI and restarting ● glacial-earth-69618... ⚙
```



```
Jamess-MacBook-Pro:capstone_demoapp jim$ heroku config --remote staging
```

```
==== glacial-earth-69618 Config Vars
```

```
DATABASE_URL: postgres://lbuinraxfqxdds:Dxc6wcXY0F0iFjh0A2QpAyDBTE@ec2-54-235-123-159.compute-1.amazonaws.com:5432/d83tkmk8s44aup
```

```
LANG: en_US.UTF-8
```

```
MLAB_URI: mongodb://dbuser:capstone@ds119738.mlab.com:19738/lecture_staging
```

```
RACK_ENV: production
```

```
RAILS_ENV: production
```

```
RAILS_SERVE_STATIC_FILES: enabled
```

```
SECRET_KEY_BASE: d7586cbbbe1206547b324569eafdbadccc9ace89075288cefdbb91ca8db1fbd9e608c96c00f98a1baf10ce22d579acbb6d379c7da9b1036664354dee2000ef9d
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$
```

[]

```
James-MacBook-Pro:capstone_demoapp jim$ vi Procfile
```



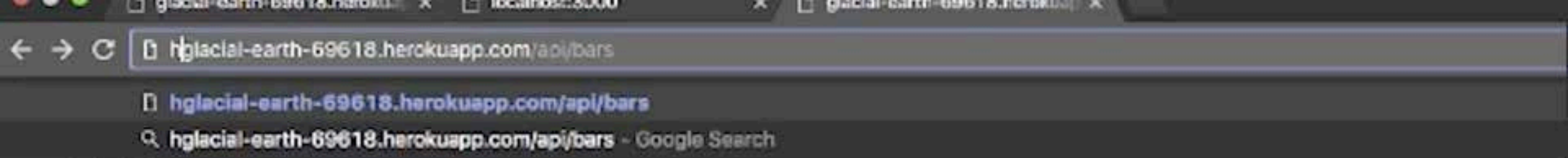
```
James-MacBook-Pro:capstone_demoapp jim$ git add Procfile  
James-MacBook-Pro:capstone_demoapp jim$ git commit
```



```
James-MacBook-Pro:capstone_demoapp jim$ git add Procfile
James-MacBook-Pro:capstone_demoapp jim$ git commit -m "added Procfile"
[staging-app 85e5104] added Procfile
 1 file changed, 1 insertion(+)
 create mode 100644 Procfile
James-MacBook-Pro:capstone_demoapp jim$
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git add Procfile
Jamess-MacBook-Pro:capstone_demoapp jim$ git commit -m "added Procfile"
[staging-app 85e5104] added Procfile
 1 file changed, 1 insertion(+)
 create mode 100644 Procfile
Jamess-MacBook-Pro:capstone_demoapp jim$ git push staging staging-app:master
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 304 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Ruby app detected
remote: -----> Compiling Ruby/Rails
remote: -----> Using Ruby version: ruby-2.2.6
remote: ##### WARNING:
remote:      Removing `Gemfile.lock` because it was generated on Windows.
remote:      Bundler will do a full resolve so native gems are handled properly.
remote:      This may result in unexpected gem versions being used in your app.
remote:      In rare occasions Bundler may not be able to resolve your dependencies at all.
remote:      https://devcenter.heroku.com/articles/bundler-windows-gemfile
remote:
remote: -----> Installing dependencies using bundler 1.13.6
remote:      Running: bundle install --without development:test --path vendor/bundle --binstubs vendor/bundle/
bin -j4
remote:      Fetching gem metadata from https://rubygems.org/.....
remote:      Fetching version metadata from https://rubygems.org/..
```

```
remote: Cleaning assets
remote: Running: rake assets:clean
remote:
remote: ##### WARNING:
remote: You have not declared a Ruby version in your Gemfile.
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: ##### WARNING:
remote: Removing `Gemfile.lock` because it was generated on Windows.
remote: Bundler will do a full resolve so native gems are handled properly.
remote: This may result in unexpected gem versions being used in your app.
remote: In rare occasions Bundler may not be able to resolve your dependencies at all.
remote: https://devcenter.heroku.com/articles/bundler-windows-gemfile
remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> web
remote: Default types for buildpack -> console, rake, worker
remote:
remote: -----> Compressing...
remote: Done: 26.7M
remote: -----> Launching...
remote: Released v8
remote: https://glacial-earth-69618.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy.... done.
To https://git.heroku.com/glacial-earth-69618.git
   0420736..85e5104 staging-app -> master
Jamess-MacBook-Pro:capstone_demoapp jim$
```



[]

[]

```
James-MacBook-Pro:capstone_demoapp jim$ vi config/environments/production.rb
```



```
31 # Do not fallback to assets pipeline if a precompiled asset is missed.
32 config.assets.compile = false
33
34 # Asset digests allow you to set far-future HTTP expiration dates on all assets,
35 # yet still be able to expire them through the digest params.
36 config.assets.digest = true
37
38 # `config.assets.precompile` and `config.assets.version` have moved to config/initializers/assets.rb
39
40 # Specifies the header that your server uses for sending files.
41 # config.action_dispatch.x_sendfile_header = 'X-Sendfile' # for Apache
42 # config.action_dispatch.x_sendfile_header = 'X-Accel-Redirect' # for NGINX
43
44 # Force all access to the app over SSL, use Strict-Transport-Security, and use secure cookies.
45 # config.force_ssl = true
46
47 # Use the lowest log level to ensure availability of diagnostic information
48 # when problems arise.
49 config.log_level = :debug
50
51 # Prepend all log lines with the following tags.
52 # config.log_tags = [ :subdomain, :uuid ]
53
54 # Use a different logger for distributed setups.
55 # config.logger = ActiveSupport::TaggedLogging.new(SyslogLogger.new)
56
57 # Use a different cache store in production.
58 # config.cache_store = :mem_cache_store
59
```

config/environments/production.rb

```
31 # Do not fallback to assets pipeline if a precompiled asset is missed.
32 config.assets.compile = false
33
34 # Asset digests allow you to set far-future HTTP expiration dates on all assets,
35 # yet still be able to expire them through the digest params.
36 config.assets.digest = true
37
38 # `config.assets.precompile` and `config.assets.version` have moved to config/initializers/assets.rb
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48 # when problems arise.
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55 # config.logger = ActiveSupport::TaggedLogging.new(SyslogLogger.new)
56
57 # Use a different cache store in production.
58 # config.cache_store = :mem_cache_store
59
```

config/environments/production.rb

```
James-MacBook-Pro:capstone_demoapp jim$ vi config/environments/production.rb  
James-MacBook-Pro:capstone_demoapp jim$ rm Gemfile.lock  
James-MacBook-Pro:capstone_demoapp jim$ █
```

Replacing Gemfile.lock that was previous put in place by Windows VM


```
Using rspec-core 3.5.4
Using rspec-expectations 3.5.0
Using rspec-mocks 3.5.0
Using activesupport 4.2.6
Using loofah 2.0.3
Using mail 2.6.4
Using pry-byebug 3.4.0
Using pry-rails 0.3.4
Using rails-deprecated_sanitizer 1.0.3
Using globalid 0.3.7
Using activemodel 4.2.6
Using jbuilder 2.6.0
Using spring 2.0.0
Using rails-html-sanitizer 1.0.3
Using rails-dom-testing 1.0.7
Using activejob 4.2.6
Using activerecord 4.2.6
Using mongoid 5.1.5
Using actionview 4.2.6
Using actionpack 4.2.6
Using actionmailer 4.2.6
Using railties 4.2.6
Using sprockets-rails 3.2.0
Using rails-api 0.4.0
Using rspec-rails 3.5.2
Using rails 4.2.6
Bundle complete! 17 Gemfile dependencies, 62 gems now installed.
Gems in the group production were not installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
Jamess-MacBook-Pro:capstone_demoapp jim$
```

```
James-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: Gemfile.lock

modified: config/environments/production.rb

no changes added to commit (use "git add" and/or "git commit -a")

```
James-MacBook-Pro:capstone_demoapp jim$ git add Gemfile.lock config
```

```
James-MacBook-Pro:capstone_demoapp jim$ git commit -m "added"
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git status
```

```
On branch staging-app
```

```
Changes not staged for commit:
```

```
  (use "git add <file>..." to update what will be committed)
```

```
  (use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   Gemfile.lock
```

```
    modified:   config/environments/production.rb
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git add Gemfile.lock config
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git commit -m "added SSL (and lockfile)"
```

```
[staging-app 7ab9ebb] added SSL (and lockfile)
```

```
 2 files changed, 1 insertion(+), 7 deletions(-)
```

```
Jamess-MacBook-Pro:capstone_demoapp jim$ git push staging staging-app:master
```



```
James-MacBook-Pro:capstone_demoapp jim$ git status
```

On branch staging-app

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: Gemfile.lock

modified: config/environments/production.rb

no changes added to commit (use "git add" and/or "git commit -a")

```
James-MacBook-Pro:capstone_demoapp jim$ git add Gemfile.lock config
```

```
James-MacBook-Pro:capstone_demoapp jim$ git commit -m "added SSL (and lockfile)"
```

[staging-app 7ab9ebb] added SSL (and lockfile)

2 files changed, 1 insertion(+), 7 deletions(-)

```
James-MacBook-Pro:capstone_demoapp jim$ git push --force staging staging-app:master
```



```
remote: Removing puma (3.6.2)
remote: Removing jbuilder (2.6.1)
remote: Removing minitest (5.10.1)
remote: -----> Detecting rake tasks
remote: -----> Preparing app for Rails asset pipeline
remote: Running: rake assets:precompile
remote: Asset precompilation completed (1.73s)
remote: Cleaning assets
remote: Running: rake assets:clean
remote:
remote: ##### WARNING:
remote: You have not declared a Ruby version in your Gemfile.
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> web
remote: Default types for buildpack -> console, rake, worker
remote:
remote: -----> Compressing...
remote: Done: 26.6M
remote: -----> Launching...
remote: Released v9
remote: https://glacial-earth-69618.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy.... done.
To https://git.heroku.com/glacial-earth-69618.git
   85e5104..7ab9ebb staging-app -> master
Jamess-MacBook-Pro:capstone_demoapp jim$
```

[]

Capstone Site Under Construction -

```
James-MacBook-Pro:capstone_demoapp jim$
```

```
James-MacBook-Pro:capstone_demoapp jim$ git checkout master  
Switched to branch 'master'  
Your branch is up-to-date with 'origin/master'.  
James-MacBook-Pro:capstone_demoapp jim$
```



```
James-MacBook-Pro:capstone_demoapp jim$ git push production master  
Total 0 (delta 0), reused 0 (delta 0)
```



```
remote: Installing multi_json 1.12.1
remote: Installing method_source 0.8.2
remote: Installing origin 2.2.2
remote: Installing pg 0.19.0 with native extensions
remote: Installing slop 3.6.0
remote: Installing puma 3.6.0 with native extensions
remote: Installing rack-cors 0.4.0
remote: Using bundler 1.13.6
remote: Installing thor 0.19.4
remote: Installing rails_serve_static_assets 0.0.5
remote: Installing rails_stdout_logging 0.0.5
remote: Installing tzinfo 1.2.2
remote: Installing nokogiri 1.6.8.1 with native extensions
remote: Installing rack-test 0.6.3
remote: Installing mime-types 3.1
remote: Installing sprockets 3.7.0
remote: Installing mongo 2.3.1
remote: Installing pry 0.10.4
remote: Installing rails_12factor 0.0.3
remote: Installing mail 2.6.4
remote: Installing activesupport 4.2.6
remote: Installing pry-rails 0.3.4
remote: Installing rails-deprecated_sanitizer 1.0.3
remote: Installing globalid 0.3.7
remote: Installing jbuilder 2.6.0
remote: Installing activemodel 4.2.6
remote: Installing activejob 4.2.6
remote: Installing activerecord 4.2.6
remote: Installing mongoid 5.1.5
```

```
remote: Bundled gems are installed into ./vendor/bundle.
remote: Bundle completed (25.40s)
remote: Cleaning up the bundler cache.
remote: -----> Detecting rake tasks
remote: -----> Preparing app for Rails asset pipeline
remote: Running: rake assets:precompile
remote: Asset precompilation completed (1.61s)
remote: Cleaning assets
remote: Running: rake assets:clean
remote:
remote: ##### WARNING:
remote: You have not declared a Ruby version in your Gemfile.
remote: To set your Ruby version add this line to your Gemfile:
remote: ruby '2.2.6'
remote: # See https://devcenter.heroku.com/articles/ruby-versions for more information.
remote:
remote: -----> Discovering process types
remote: Procfile declares types      -> web
remote: Default types for buildpack -> console, rake, worker
remote:
remote: -----> Compressing...
remote: Done: 26.6M
remote: -----> Launching...
remote: Released v6
remote: https://boiling-caverns-35762.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/boiling-caverns-35762.git
* [new branch]      master -> master
Jamess-MacBook-Pro:capstone_demoapp jim$
```

Summary

- ✧ Provisioned our sites
- ✧ Configured our deployment environments
- ✧ Deployed revisions

What's Next?

- ✧ Assignment