

# Consuming the API

In this Video, we are going to take a look at...

- Setting up our Rails project elements to consume APIs
- Implementing and testing an API adaptor object
- Creating incoming and outgoing workflows and implementing them with controllers and views
- Running API and main application and watching them in action

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# Starhub Products



Wolfenstein  
SHOOTER

## Reviews

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Age Of Zombies  
RPG

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Lounge Larry 2106  
ARCADE

## Reviews

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New Product

# Reviews for Lounge Larry 2106



Rating	Comment	Actions
5	back in the 80s dude!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
3	Not as sleek as I remember	<a href="#">Show</a>

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4.5  
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Lounge Larry 2106  
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# class Net::HTTP

## An HTTP client API for Ruby.

Net::HTTP provides a rich library which can be used to build HTTP user-agents. For more details about HTTP see [RFC2616]([www.ietf.org/rfc/rfc2616.txt](http://www.ietf.org/rfc/rfc2616.txt))

Net::HTTP is designed to work closely with URI. URI::Generic#host, URI::Generic#port and URI::HTTP#request\_uri are designed to work with Net::HTTP.

If you are only performing a few GET requests you should try OpenURI.



## Simple Examples

All examples assume you have loaded Net::HTTP with:

```
require 'net/http'
```

This will also require 'uri' so you don't need to require it separately.

The Net::HTTP methods in the following section do not persist connections. They are not recommended if you are performing many HTTP requests.

### GET

```
Net::HTTP.get('example.com', '/index.html')
```

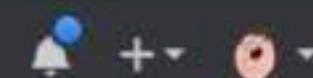
### GET by URI



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Usable, fast, simple HTTP 1.1 for Ruby

excon ruby http

1,468 commits

2 branches

173 releases

113 contributors

MIT

Branch: master ▾

New pull request

Create new file

Upload files

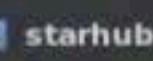
Find file

Clone or download ▾

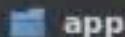
 geemus	Release 0.55.0	Latest commit 2c13961 29 days ago
 benchmarks	Update concat vs interpolation benchmark	7 months ago
 data	Release 0.55.0	29 days ago
 lib	Release 0.55.0	29 days ago
 spec	Merge pull request #610 from voxik/add-missing-spec-helper-require	2 months ago
 tests	Release 0.55.0	29 days ago
 .document	Initial commit to exon.	8 years ago
 .gitignore	Fixed issue with redirect follower middleware not passing on schema,	3 years ago
 .rspec	Add Unicorn, Puma, nad Exec plugins and tests for Excon::Test::Server	7 months ago
 .travis.yml	Run tests with ruby 2.3.3	3 months ago

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lib  
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vendor  
.gitignore  
.ruby-gemset  
.ruby-version  
**Gemfile**   
Gemfile.lock  
README.md  
Rakefile  
config.ru

```
1 source 'https://rubygems.org'  
2  
3 git_source(:github) do |repo_name|  
4   repo_name = "#{repo_name}/#{repo_name}" unless repo_name.include?("/")  
5   "https://github.com/#{repo_name}.git"  
6 end  
7  
8  
9 # Bundle edge Rails instead: gem 'rails', github: 'rails/rails'  
10 gem 'rails', '~> 5.0.1'  
11 # Use postgresql as the database for Active Record  
12 gem 'pg', '~> 0.18'  
13 # Use Puma as the app server  
14 gem 'puma', '~> 3.0'  
15 # Use SCSS for stylesheets  
16 gem 'sass-rails', '~> 5.0'  
17 # Use Uglifier as compressor for JavaScript assets  
18 gem 'uglifier', '>= 1.3.0'  
19 # Use CoffeeScript for .coffee assets and views  
20 gem 'coffee-rails', '~> 4.2'  
21 # See https://github.com/rails/execjs#readme for more supported runtimes  
22 # gem 'therubyracer', platforms: :ruby  
23  
24 # Use jquery as the JavaScript library  
25 gem 'jquery-rails'  
26 # Turbolinks makes navigating your web application faster. Read more: http://
```



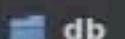
starhub



app



bin



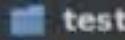
config



db



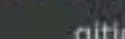
lib



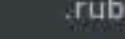
log



public



test



tmp



vendor

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.ruby-gemset

.ruby-version

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Gemfile.lock

README.md

Rakefile

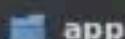
config.ru

```
anywhere in the code.  
50 gem 'web-console', '>= 3.3.0'  
51 gem 'listen', '~> 3.0.5'  
52 # Spring speeds up development by keeping your application running in the  
background. Read more: https://github.com/rails/spring  
53 gem 'spring'  
54 gem 'spring-watcher-listen', '~> 2.0.0'  
55 end  
56  
57 gem 'devise' I  
58  
59 # Windows does not include zoneinfo files, so bundle the tzinfo-data gem  
60 gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]  
61
```

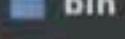
FOLDERS



starhub



app



bin



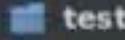
config



db



lib



log



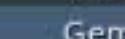
public



test



tmp



vendor

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anywhere in the code.  
50 gem 'web-console', '>= 3.3.0'  
51 gem 'listen', '~> 3.0.5'  
52 # Spring speeds up development by keeping your application running in the  
background. Read more: https://github.com/rails/spring  
53 gem 'spring'  
54 gem 'spring-watcher-listen', '~> 2.0.0'  
55 end  
56  
57 gem 'devise'  
58 gem 'excon'  
59  
60 # Windows does not include zoneinfo files, so bundle the tzinfo-data gem  
61 gem 'tzinfo-data', platforms: [:mingw, :mswin, :x64_mingw, :jruby]  
62
```

```
Using mime-types 3.1
Using coffee-script 2.4.1
Using uglifier 3.0.4
Using rb-inotify 0.9.8
Using minitest-reporters 1.1.11
Using turbolinks 5.0.1
Using activesupport 5.0.1
Using loofah 2.0.3
Using mail 2.6.4
Using listen 3.0.8
Using rails-dom-testing 2.0.2
Using globalid 0.3.7
Using activemodel 5.0.1
Using jbuilder 2.6.1
Using spring 2.0.1
Using rails-html-sanitizer 1.0.3
Using activejob 5.0.1
Using activerecord 5.0.1
Using spring-watcher-listen 2.0.1
Using actionview 5.0.1
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Using actioncable 5.0.1
Using actionmailer 5.0.1
Using railties 5.0.1
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Using coffee-rails 4.2.1
Using responders 2.3.0
Using jquery-rails 4.2.2
Using minitest-rails 3.0.0
Using web-console 3.4.0
Using rails 5.0.1
Using sass-rails 5.0.6
Using devise 4.2.0
Bundle complete! 19 Gemfile dependencies, 72 gems now installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

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Using mime-types 3.1
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Using uglifier 3.0.4
Using rb-inotify 0.9.8
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± rails g controller Messages
```

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± rails g controller Messages create new index
```

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fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails g controller Messages create new index --skip-assets
```

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Using actionpack 5.0.1
Using actioncable 5.0.1
Using actionmailer 5.0.1
Using railties 5.0.1
Using sprockets-rails 3.2.0
Using coffee-rails 4.2.1
Using responders 2.3.0
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fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails g controller Messages create new index --skip-assets -p
Running via Spring preloader in process 8716
Expected string default value for '--jbuilder'; got true (boolean)
Expected string default value for '--helper'; got true (boolean)
Expected string default value for '--assets'; got true (boolean)
  create  app/controllers/messages_controller.rb
  route   get 'messages/index'
  route   get 'messages/new'
  route   get 'messages/create'
invoke  erb
  create  app/views/messages
  create  app/views/messages/create.html.erb
  create  app/views/messages/new.html.erb
  create  app/views/messages/index.html.erb
invoke  test_unit
  create  test/controllers/messages_controller_test.rb
invoke  helper
  create  app/helpers/messages_helper.rb
invoke  test_unit
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
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Using actionpack 5.0.1
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  route   get 'messages/create'
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  create  app/views/messages
  create  app/views/messages/create.html.erb
  create  app/views/messages/new.html.erb
  create  app/views/messages/index.html.erb
  invoke  test_unit
  create  test/controllers/messages_controller_test.rb
  invoke  helper
  create  app/helpers/messages_helper.rb
  invoke  test_unit
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

```
Expected string default value for '--assets'; got true (boolean)
  create app/controllers/messages_controller.rb
  route  get 'messages/index'
  route  get 'messages/new'
  route  get 'messages/create'
invoke  erb
  create  app/views/messages
  create  app/views/messages/create.html.erb
  create  app/views/messages/new.html.erb
  create  app/views/messages/index.html.erb
invoke  test_unit
  create  test/controllers/messages_controller_test.rb
invoke  helper
  create  app/helpers/messages_helper.rb
invoke  test_unit
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails g controller Messages create new index --skip-assets
Running via Spring preloader in process 8742
Expected string default value for '--jbuilder'; got true (boolean)
Expected string default value for '--helper'; got true (boolean)
Expected string default value for '--assets'; got true (boolean)
  create app/controllers/messages_controller.rb
  route  get 'messages/index'
  route  get 'messages/new'
  route  get 'messages/create'
invoke  erb
  create  app/views/messages
  create  app/views/messages/create.html.erb
  create  app/views/messages/new.html.erb
  create  app/views/messages/index.html.erb
invoke  test_unit
  create  test/controllers/messages_controller_test.rb
invoke  helper
  create  app/helpers/messages_helper.rb
invoke  test_unit
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
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```

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Gemfile routes.rb

```
1- Rails.application.routes.draw do
  2   get 'messages/create'
  3
  4   get 'messages/new'
  5
  6   get 'messages/index'
  7   I
  8   get 'home/index'
  9   devise_for :customers, controllers: {registrations: 'registrations'}
10
11  root to: "home#index"
12- resources :products do
13   resources :issues
14   resources :reviews
15 end
16 end
17
```

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Gemfile routes.rb

```
1- Rails.application.routes.draw do
  post 'messages/create'
  get 'messages/new'
  get 'messages/index'
  get 'home/index'
  devise_for :customers, controllers: {registrations: 'registrations'}
  root to: "home#index"
  resources :products do
    resources :issues
    resources :reviews
  end
end
17
```

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Gemfile

routes.rb

messages\_controller.rb

```
1- class MessagesController < ApplicationController
2
3
4  def create
5  end
6
7  def new
8  end
9
10 def index
11 end
12 end
13
```

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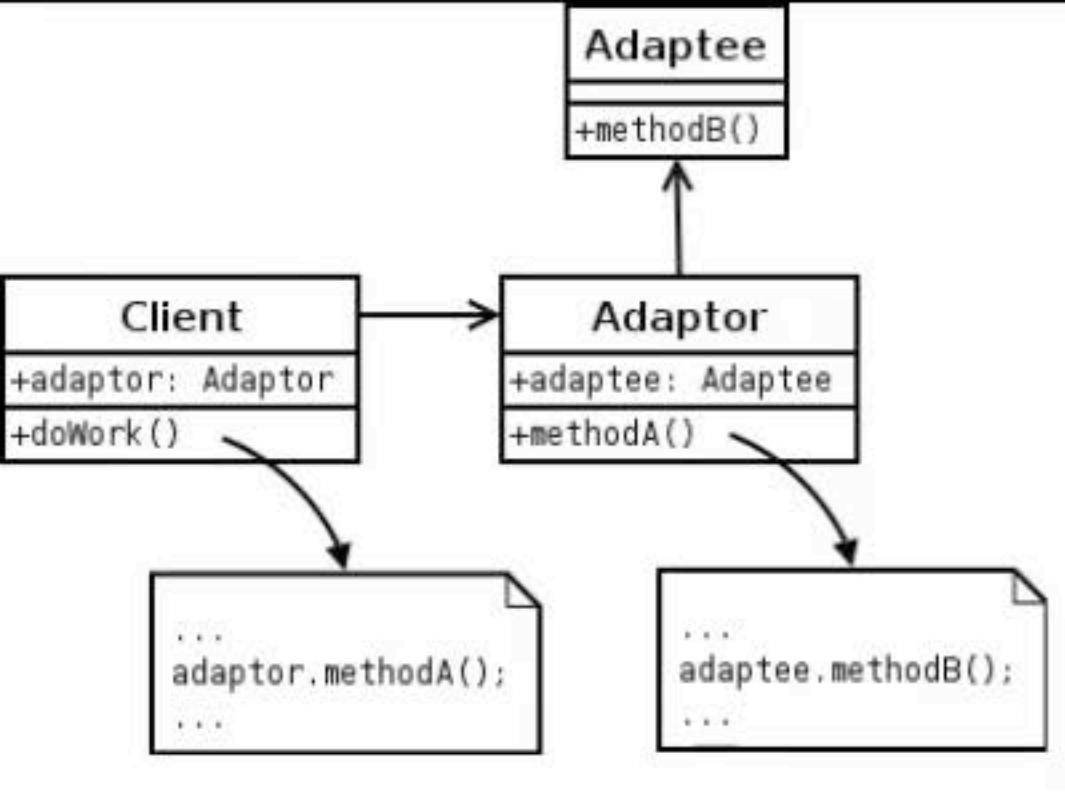
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Gemfile

routes.rb

messages\_controller.rb

```
1- class MessagesController < ApplicationController
2
3   API_HOST = 'http://localhost:3010'           I
4
5   def create
6   end
7
8   def new
9   end
10
11  def index
12  end
13 end
14
```



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Gemfile messages\_controller.rb messaging.rb

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db

Gemfile

messages\_controller.rb

messaging.rb

```
1- class Messaging
2
3-   def initialize(api_host)
4-     @connection ||= Excon.new( api_host )
5-     auth_response = @connection.post(path: '/authenticate',
6-                                     body: {name: 'starhub', password: '123secret'}.to_json,
7-                                     headers: { "Content-Type": "application/json" })
8
9-   if auth_response.status == 200
10-     @auth_token = JSON.parse(auth_response.body).fetch('auth_token')
11-   else
12-     raise "Failed to authenticate with Messaging API"
13-   end
14
15- end
16
17- def send(msg)
18-   params = {content: msg[:content], originator: msg[:originator], recipient: msg[:recipient]}
19-   response = @connection.post(path: '/messages',
20-                             body: params.to_json,
21-                             headers: { "Content-Type": "application/json",
22-                                         'Authorization': @auth_token })
23-   response.status == 201
24- end
25
```

## FOLDERS

- starhub
- app
  - adaptor
  - assets
  - channels
  - controllers
    - concerns
  - application\_controller.rb
  - home\_controller.rb
  - issues\_controller.rb
  - messages\_controller.rb
  - registrations\_controller.rb
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  - environments
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- application.rb
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- cable.yml
- database.yml
- environment.rb
- puma.rb
- routes.rb
- secrets.yml
- spring.rb

Gemfile

messages\_controller.rb

messaging.rb

```
19-   response = @connection.post(path: '/messages',
20-                                 body: params.to_json,
21-                                 headers: { "Content-Type": "application/json",
22-                                            'Authorization': @auth_token })
23-   response.status == 201
24- end
25-
26- def receive(username, status=nil)
27-   query_hash = {mailbox: username}
28-   query_hash.merge!({status: status}) if status
29-   response = @connection.get(path: '/messages',
30-                               query: query_hash,
31-                               headers: { 'Authorization': @auth_token })
32-
33-
34-   response.status == 200
35-   JSON.parse(response.body)
36- end
37- end
```

The screenshot shows a code editor interface with two tabs open: `Gemfile` and `test_helper.rb`. The left sidebar displays the project structure:

- environments**
- initializers**
- locales**
- application.rb**
- boot.rb**
- cable.yml**
- database.yml**
- environment.rb**
- puma.rb**
- routes.rb**
- secrets.yml**
- spring.rb**
- db**
- lib**
- log**
- public**
- test**
  - controllers**
  - fixtures**
  - helpers**
  - integration**
  - mailers**
  - models**
- test\_helper.rb**
- tmp**
- vendor**
- .gitignore**
- .ruby-gemset**
- .ruby-version**
- Gemfile**
- Gemfile.lock**
- README.md**
- Rakefile**
- config.ru**

The `Gemfile` tab is currently active, showing the following content:

```
ENV["RAILS_ENV"] = "test"
require File.expand_path("../config/environment", __FILE__)
require "rails/test_help"
require "minitest/rails"

# To add Capybara feature tests add `gem "minitest-rails-capybara"`
# to the test group in the Gemfile and uncomment the following:
# require "minitest/rails/capybara"

# Uncomment for awesome colorful output
# require "minitest/pride"

class ActiveSupport::TestCase
  # Setup all fixtures in test/fixtures/*.yml for all tests in alphabetical
  # order.
  fixtures :all
  # Add more helper methods to be used by all tests here...
end

class ActionDispatch::IntegrationTest
  include Devise::Test::IntegrationHelpers
end

Minitest::Reporters.use!(
  Minitest::Reporters::SpecReporter.new,
  ENV,
  Minitest.backtrace_filter
)
```

The `test_helper.rb` tab is also visible at the top of the screen.

The screenshot shows a code editor interface with a sidebar on the left displaying the project structure of a Ruby on Rails application. The main area shows the content of the `test_helper.rb` file.

**Project Structure (Sidebar):**

- environments
- initializers
- locales
- application.rb
- boot.rb
- cable.yml
- database.yml
- environment.rb
- puma.rb
- routes.rb
- secrets.yml
- spring.rb
- db
- lib
- log
- public
- test
  - controllers
  - fixtures
  - helpers
  - integration
  - mailers
  - models
- tmp
- vendor
- .gitignore
- .ruby-gemset
- .ruby-version
- Gemfile
- Gemfile.lock
- README.md
- Rakefile
- config.ru

**Code Editor (Main Area):**

```
1 ENV["RAILS_ENV"] = "test"
2 require File.expand_path("../config/environment", __FILE__)
3 require "rails/test_help"
4 require "minitest/rails"
5 Dir.glob('../app/adaptor/**/*.rb') { |file| require file }

6
7 # To add Capybara feature tests add `gem "minitest-rails-capybara"`
8 # to the test group in the Gemfile and uncomment the following:
9 # require "minitest/rails/capybara"

10
11 # Uncomment for awesome colorful output
12 # require "minitest/pride"
13
14 class ActiveSupport::TestCase
15   # Setup all fixtures in test/fixtures/*.yml for all tests in alphabetical
16   # order.
17   fixtures :all
18   # Add more helper methods to be used by all tests here...
19 end

20 class ActionDispatch::IntegrationTest
21   include Devise::Test::IntegrationHelpers
22 end

23
24 Minitest::Reporters.use!(
25   Minitest::Reporters::SpecReporter.new,
26   ENV,
27   Minitest.backtrace_filter
28 )
```

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar containing a tree view of the project structure:

- initializers
- locales
- application.rb
- boot.rb
- cable.yml
- database.yml
- environment.rb
- puma.rb
- routes.rb
- secrets.yml
- spring.rb
- db
- lib
- log
- public
- test
- adaptor
- controllers
- fixtures
- helpers
- integration
- mailers
- models
- test\_helper.rb
- tmp
- vendor
- .gitignore
- .ruby-gemset
- .ruby-version
- Gemfile
- Gemfile.lock
- README.md
- Rakefile
- config.ru

The main pane displays the content of the `test_helper.rb` file. The file is a Ruby script that sets up a test environment. It includes require statements for environment setup, test helpers, and Minitest. It also includes logic to require files from the `app/adaptor` directory. The file then provides two class definitions: `ActiveSupport::TestCase` and `ActionDispatch::IntegrationTest`, both of which include helper methods. Finally, it uses the `Minitest::Reporters` library to set up reporting.

```
ENV["RAILS_ENV"] = "test"
require File.expand_path("../config/environment", __FILE__)
require "rails/test_help"
require "minitest/rails"
require 'webmock/minitest'
Dir.glob('../app/adaptor/**/*.rb') { |file| require file }

# To add Capybara feature tests add `gem "minitest-rails-capybara"`
# to the test group in the Gemfile and uncomment the following:
# require "minitest/rails/capybara"

# Uncomment for awesome colorful output
# require "minitest/pride"

class ActiveSupport::TestCase
  # Setup all fixtures in test/fixtures/*.yml for all tests in alphabetical
  # order.
  fixtures :all
  # Add more helper methods to be used by all tests here...
end

class ActionDispatch::IntegrationTest
  include Devise::Test::IntegrationHelpers
end

Minitest::Reporters.use!(
  Minitest::Reporters::SpecReporter.new,
  ENV,
  Minitest.backtrace_filter)
```

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Rakefile  
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Gemfile messages\_controller.rb messaging.rb test\_helper.rb

```
27 gem 'turbolinks', '~> 5'
28 # Build JSON APIs with ease. Read more: https://github.com/rails/jbuilder
29 gem 'jbuilder', '~> 2.5'
30 # Use Redis adapter to run Action Cable in production
31 # gem 'redis', '~> 3.0'
32 # Use ActiveModel has_secure_password
33 # gem 'bcrypt', '~> 3.1.7'
34
35 # Use Capistrano for deployment
36 # gem 'capistrano-rails', group: :development
37
38- group :development, :test do
39   # Call 'byebug' anywhere in the code to stop execution and get a debugger
        console
40   gem 'byebug', platform: :mri
41 end
42
43- group :test do
44   gem 'minitest-rails'
45   gem 'minitest-reporters'
46 end
47
48- group :development do
49   # Access an IRB console on exception pages or by using <%= console %>
        anywhere in the code.
50   gem 'web-console', '>= 3.3.0'
51   gem 'listen', '~> 3.0.5'
52   # Spring speeds up development by keeping your application running in
        background. Read more: https://github.com/rails/spring
```

initializers

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boot.rb

cable.yml

database.yml

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Gemfile.lock

README.md

Rakefile

config.ru

Gemfile messages\_controller.rb messaging.rb test\_helper.rb

```
27 gem 'turbolinks', '~> 5'
28 # Build JSON APIs with ease. Read more: https://github.com/rails/jbuilder
29 gem 'jbuilder', '~> 2.5'
30 # Use Redis adapter to run Action Cable in production
31 # gem 'redis', '~> 3.0'
32 # Use ActiveModel has_secure_password
33 # gem 'bcrypt', '~> 3.1.7'
34
35 # Use Capistrano for deployment
36 # gem 'capistrano-rails', group: :development
37
38- group :development, :test do
39   # Call 'byebug' anywhere in the code to stop execution and get a debugger
        console
40   gem 'byebug', platform: :mri
41 end
42
43- group :test do
44   gem 'minitest-rails'
45   gem 'minitest-reporters'
46   gem 'webmock'
47 end
48
49- group :development do
50   # Access an IRB console on exception pages or by using <%= console %>
        anywhere in the code.
51   gem 'web-console', '>= 3.3.0'
52   gem 'listen', '~> 3.0.5'
53   # Spring speeds up development by keeping your application running in the
```

```
Using uglifier 3.0.4
Using crack 0.4.3
Using rb-inotify 0.9.8
Using minitest-reporters 1.1.11
Using turbolinks 5.0.1
Using activesupport 5.0.1
Using loofah 2.0.3
Using mail 2.6.4
Using webmock 2.3.2
Using listen 3.0.8
Using rails-dom-testing 2.0.2
Using globalid 0.3.7
Using activemodel 5.0.1
Using jbuilder 2.6.1
Using spring 2.0.1
Using rails-html-sanitizer 1.0.3
Using activejob 5.0.1
Using activerecord 5.0.1
Using spring-watcher-listen 2.0.1
Using actionview 5.0.1
Using actionpack 5.0.1
Using actioncable 5.0.1
Using actionmailer 5.0.1
Using railties 5.0.1
Using sprockets-rails 3.2.0
Using coffee-rails 4.2.1
Using responders 2.3.0
Using jquery-rails 4.2.2
Using minitest-rails 3.0.0
Using web-console 3.4.0
Using rails 5.0.1
Using sass-rails 5.0.6
Using devise 4.2.0
Bundle complete! 20 Gemfile dependencies, 78 gems now installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

```
Using uglifier 3.0.4
Using crack 0.4.3
Using rb-inotify 0.9.8
Using minitest-reporters 1.1.11
Using turbolinks 5.0.1
Using activesupport 5.0.1
Using loofah 2.0.3
Using mail 2.6.4
Using webmock 2.3.2
Using listen 3.0.8
Using rails-dom-testing 2.0.2
Using globalid 0.3.7
Using activemodel 5.0.1
Using jbuilder 2.6.1
Using spring 2.0.1
Using rails-html-sanitizer 1.0.3
Using activejob 5.0.1
Using activerecord 5.0.1
Using spring-watcher-listen 2.0.1
Using actionview 5.0.1
Using actionpack 5.0.1
Using actioncable 5.0.1
Using actionmailer 5.0.1
Using railties 5.0.1
Using sprockets-rails 3.2.0
Using coffee-rails 4.2.1
Using responders 2.3.0
Using jquery-rails 4.2.2
Using minitest-rails 3.0.0
Using web-console 3.4.0
Using rails 5.0.1
Using sass-rails 5.0.6
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Bundle complete! 20 Gemfile dependencies, 78 gems now installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

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Library for stubbing and setting expectations on HTTP requests in Ruby.

[1,387 commits](#)[11 branches](#)[102 releases](#)[151 contributors](#)[MIT](#)Branch: [master](#) ▾[New pull request](#)[Create new file](#)[Upload files](#)[Find file](#)[Clone or download](#) ▾**bblimke** committed on GitHub Merge pull request #692 from ckoenig/ruby\_2\_4\_net\_buffered\_io\_usage ...

Latest commit 1fad61 2 days ago

<a href="#">lib</a>	Ensure the correct read_timeout value is used	5 days ago
<a href="#">minitest</a>	Converted all hashes to Ruby 1.9 syntax.	10 months ago
<a href="#">spec</a>	Ensure the correct read_timeout value is used	5 days ago
<a href="#">test</a>	add refute_requested	4 months ago
<a href="#">.gemtest</a>	Opt-in for testing with rubygems-test	6 years ago
<a href="#">.gitignore</a>	* Only run Ruby 1.8.7 with a specific Gemfile on Travis	a year ago
<a href="#">.rspec-tm</a>	Moved .rspec-tm to project root folder	6 years ago
<a href="#">.travis.yml</a>	Revert "Revert "Dropped support for JRuby 1.9.3 as well.""	2 months ago
<a href="#">CHANGELOG.md</a>	Version 2.3.2	2 months ago
<a href="#">Gemfile</a>	Revert "Merge pull request #625 from pavel-jurasek-bcgdv-com/jurasek..."	8 months ago

Initializers

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README.md

Rakefile

Gemfile

messaging\_test.rb

messages\_controller.rb

messaging.rb

test\_helper.rb

```
1 |require_relative '../test_helper'
2 |
3- class MessagingTest < Minitest::Test
4   API_HOST = 'http://localhost:3010'
5
6- def setup
7   @test_sender = 'test_sender'
8   @test_recipient = 'test_recipient'
9
10  @gateway = Minitest::Mock.new(Messaging.new(API_HOST))
11 end
12
13- def test_send
14   msg = {content: "this is a test", originator: @test_sender, recipient: @
15   test_recipient}
16
17   @gateway.expect(:send, true, [msg])
18   @gateway.send(msg)
19   assert_mock @gateway
20 end
21
```

```
Gemfile          messaging_test.rb      messages_controller.rb    messaging.rb      test_helper.rb
1 ENV["RAILS_ENV"] = "test"
2 require File.expand_path("../config/environment", __FILE__)
3 require "rails/test_help"
4 require "minitest/rails"
5 #require 'webmock/minitest'
6 Dir.glob('../app/adaptor/**/*.rb') { |file| require file }
7
8 # To add Capybara feature tests add `gem "minitest-rails-capybara"`
9 # to the test group in the Gemfile and uncomment the following:
10 # require "minitest/rails/capybara"
11
12 # Uncomment for awesome colorful output
13 # require "minitest/pride"
14
15- class ActiveSupport::TestCase
16   # Setup all fixtures in test/fixtures/*.yml for all tests in alphabetical
17   # order.
18   fixtures :all
19   # Add more helper methods to be used by all tests here...
20 end
21
22 class ActionDispatch::IntegrationTest
23   include Devise::Test::IntegrationHelpers
24 end
25-
26 Minitest::Reporters.use!(
27   Minitest::Reporters::SpecReporter.new,
28   ENV,
29   Minitest.backtrace_filter
```



```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails test test/adaptor/messaging_test.rb
Running via Spring preloader in process 18335
Started with run options --seed 18483

MessagingTest
  test_send                                              ERROR (0.00s)
WebMock::NetConnectNotAllowedError: WebMock::NetConnectNotAllowedError: Real HTTP connections are disabled. Unregistered request: POST http://localhost:3010/authenticate with body '{"name":"starhub","password":"123secret"}' with headers {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}
You can stub this request with the following snippet:

  stub_request(:post, "http://localhost:3010/authenticate").
    with(:body => "{\"name\":\"starhub\",\"password\":\"123secret\"}",
          :headers => {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}).
    to_return(:status => 200, :body => "", :headers => {})

=====
app/adaptor/messaging.rb:5:in `initialize'
test/adaptor/messaging_test.rb:10:in `new'
test/adaptor/messaging_test.rb:10:in `setup'

Finished in 0.00404s
1 tests, 0 assertions, 0 failures, 1 errors, 0 skips
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails test test/adaptor/messaging_test.rb
Running via Spring preloader in process 18335
Started with run options --seed 18483
```

### MessagingTest

```
  test_send                                              ERROR (0.00s)
WebMock::NetConnectNotAllowedError: WebMock::NetConnectNotAllowedError: Real HTTP connections are disabled. Unregistered request: POST http://localhost:3010/authenticate with body '{"name":"starhub","password":"123secret"}' with headers {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}
```

You can stub this request with the following snippet:

```
stub_request(:post, "http://localhost:3010/authenticate").
  with(:body => "{\"name\":\"starhub\",\"password\":\"123secret\"}",
        :headers => {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}).
  to_return(:status => 200, :body => "", :headers => {})
```

I

```
=====
app/adaptor/messaging.rb:5:in `initialize'
test/adaptor/messaging_test.rb:10:in `new'
test/adaptor/messaging_test.rb:10:in `setup'
```

Finished in 0.00404s

1 tests, 0 assertions, 0 failures, 1 errors, 0 skips

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar containing project files and folders:

- locales
- application.rb
- boot.rb
- cable.yml
- database.yml
- environment.rb
- puma.rb
- routes.rb
- secrets.yml
- spring.rb
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- .ruby-version
- Gemfile
- Gemfile.lock
- README.md
- Rakefile
- config.ru

The main area displays the content of the `messaging_test.rb` file. The file is a Minitest test case for a messaging system. It includes stubbing for authentication and testing the `send` method of a gateway.

```
require_relative '../test_helper'

class MessagingTest < Minitest::Test
  API_HOST = 'http://localhost:3010'

  def setup
    @test_sender = 'test_sender'
    @test_recipient = 'test_recipient'
  end

  expected_response = {"auth_token": AUTH_TOKEN}.to_json
  stub_request(:post, "#{API_HOST}/authenticate").
    with(body: {name: "starhub", password: "123secret"}.to_json,
         headers: {'Content-Type': 'application/json'}).
    to_return(status: 200, body: expected_response, headers: {})

  @gateway = Minitest::Mock.new(Messaging.new(API_HOST))
end

def test_send
  msg = {content: "this is a test", originator: @test_sender, recipient: @test_recipient}

  @gateway.expect(:send, true, [msg])
  @gateway.send(msg)
  assert_mock @gateway
end
end
```

```
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messaging_test.rb
messages_controller.rb
messaging.rb
test_helper.rb
```

```
1 require_relative '../test_helper'
2
3- class MessagingTest < Minitest::Test
4   API_HOST = 'http://localhost:3010'
5
6   def setup
7     @test_sender = 'test_sender'
8     @test_recipient = 'test_recipient'
9
10
11   expected_response = {"auth_token": "12345"}.to_json
12- stub_request(:post, "#{API_HOST}/authenticate").
13   with(body: {name: "starhub", password: "123secret"}.to_json,
14       headers: {'Content-Type': 'application/json'}).
15   to_return(status: 200, body: expected_response, headers: {})
16
17   @gateway = Minitest::Mock.new(Messaging.new(API_HOST))
18 end
19
20 def test_send
21   msg = {content: "this is a test", originator: @test_sender, recipient: @
22         test_recipient}
23
24   @gateway.expect(:send, true, [msg])
25   @gateway.send(msg)
26   assert_mock @gateway
27 end
28
```

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- app
- adaptor

messaging.rb

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messaging\_test.rb

Gemfile

messaging\_test.rb

messages\_controller.rb

messaging.rb

test\_helper.rb

```
1- class Messaging
2
3-   def initialize(api_host)
4-     @connection ||= Excon.new( api_host )
5-     auth_response = @connection.post(path: '/authenticate',
6-                                     body: {name: 'starhub', password: '123secret'}.to_json,
7-                                     headers: { "Content-Type": "application/json" })
8
9-   if auth_response.status == 200
10-     @auth_token = JSON.parse(auth_response.body).fetch('auth_token')
11-   else |
12-     raise "Failed to authenticate with Messaging API"
13-   end
14-   I
15- end
16
17- def send(msg)
18-   params = {content: msg[:content], originator: msg[:originator], recipient: msg[:recipient]}
19-   response = @connection.post(path: '/messages',
20-                               body: params.to_json,
21-                               headers: { "Content-Type": "application/json",
22-                                         'Authorization': @auth_token })
23-   response.status == 201
24- end
25
```

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails test test/adaptor/messaging_test.rb
Running via Spring preloader in process 18335
Started with run options --seed 18483

MessagingTest
  test_send                                              ERROR (0.00s)
WebMock::NetConnectNotAllowedError: WebMock::NetConnectNotAllowedError: Real HTTP connections are disabled. Unregistered request: POST http://localhost:3010/authenticate with body '{"name":"starhub","password":"123secret"}' with headers {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}
```

You can stub this request with the following snippet:

```
stub_request(:post, "http://localhost:3010/authenticate").
  with(:body => "{\"name\":\"starhub\",\"password\":\"123secret\"}",
    :headers => {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}).
  to_return(:status => 200, :body => "", :headers => {})
```

```
=====
app/adaptor/messaging.rb:5:in `initialize'
test/adaptor/messaging_test.rb:10:in `new'
test/adaptor/messaging_test.rb:10:in `setup'
```

Finished in 0.00404s

1 tests, 0 assertions, 0 failures, 1 errors, 0 skips

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails test test/adaptor/messaging_test.rb
```

```
± rails test test/adaptor/messaging_test.rb
Running via Spring preloader in process 18335
Started with run options --seed 18483

MessagingTest
  test_send
    WebMock::NetConnectNotAllowedError: ERROR (0.00s)
    WebMock::NetConnectNotAllowedError: Real HTTP connections are disabled. Unregistered request: POST http://localhost:3010/authenticate with body '{"name":"starhub", "password":"123secret"}' with headers {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}
```

You can stub this request with the following snippet:

```
stub_request(:post, "http://localhost:3010/authenticate").
  with(:body => "{\"name\":\"starhub\", \"password\":\"123secret\"}",
        :headers => {'Content-Type'=>'application/json', 'Host'=>'localhost:3010', 'User-Agent'=>'excon/0.55.0'}).
  to_return(:status => 200, :body => "", :headers => {})

=====
app/adaptor/messaging.rb:5:in `initialize'
test/adaptor/messaging_test.rb:10:in `new'
test/adaptor/messaging_test.rb:10:in `setup'
```

```
Finished in 0.00404s
1 tests, 0 assertions, 0 failures, 1 errors, 0 skips
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails test test/adaptor/messaging_test.rb
Running via Spring preloader in process 18409
Started with run options --seed 33564
```

```
MessagingTest
  test_send
    PASS (0.00s)
```

```
Finished in 0.00412s
1 tests, 1 assertions, 0 failures, 0 errors, 0 skips
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

FOLDERS

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- controllers
- helpers
- jobs
- mailers
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boot.rb

cable.yml

database.yml

environment.rb

puma.rb

routes.rb

secrets.yml

spring.rb

db

lib

log

public

test

adaptor

messaging\_test.rb

Gemfile

messaging\_test.rb

messages\_controller.rb

messaging.rb

test\_helper.rb

```
7 @test_sender = 'test_sender'
8 @test_recipient = 'test_recipient'
9
10
11 expected_response = {"auth_token": "12345"}.to_json
12- stub_request(:post, "#{API_HOST}/authenticate").
13   with(body: {name: "starhub", password: "123secret"}.to_json,
14     headers: {'Content-Type': 'application/json'}).
15   to_return(status: 200, body: expected_response, headers: {})
16
17 @gateway = Minitest::Mock.new(Messaging.new(API_HOST))
18 end
19
20 def test_send
21   msg = {content: "this is a test", originator: @test_sender, recipient: @
22   test_recipient}
23
24   @gateway.expect(:send, true, [msg])
25   @gateway.send(msg)
26   assert_mock @gateway
27 end
28 end
```

FOLDERS

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  - locales
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- database.yml
- environment.rb
- puma.rb
- routes.rb
- secrets.yml
- spring.rb
- db
- lib
- log
- public
- test
- adaptor
  - messaging\_test.rb

```
Gemfile          messaging_test.rb      messages_controller.rb    messaging.rb      test_helper.rb
12-   stub_request(:post, "#{API_HOST}/authenticate").
13     with(body: {name: "starhub", password: "123secret"}.to_json,
14       headers: {'Content-Type': 'application/json'}).
15     to_return(status: 200, body: expected_response, headers: {})
16
17   @gateway = Minitest::Mock.new(Messaging.new(API_HOST))
18 end
19
20 def test_send
21   msg = {content: "this is a test", originator: @test_sender, recipient: @
22         test_recipient}
23
24   @gateway.expect(:send, true, [msg])
25   @gateway.send(msg)
26   assert_mock @gateway
27 end
28
29 def test_receive_all_statuses
30   @gateway.expect(:receive, Hash, [@test_sender])
31   res = @gateway.receive(@test_sender)
32   assert_mock @gateway
33 end
34
35 def test_receive_specific_statuses
36   status = 1
37   @gateway.expect(:receive, Hash, [@test_sender, status])
38   res = @gateway.receive(@test_sender, status)
39   assert_mock @gateway
end
```

fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starhub on master! using ruby-2.3.3@starhub  
± rails test test/adaptor/messaging\_test.rb

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails test test/adaptor/messaging_test.rb
Running via Spring preloader in process 18588
Started with run options --seed 1654

MessagingTest
  test_receive_specific_statuses          PASS (0.00s)
  test_receive_all_statuses               PASS (0.00s)
  test_send                            PASS (0.00s)

Finished in 0.00615s
3 tests, 3 assertions, 0 failures, 0 errors, 0 skips
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
±
```

```
messages_controller.rb  
registrations_controller.rb  
reviews_controller.rb  
  
helpers  
jobs  
mailers  
models  
views  
  devise  
  home  
  issues  
  layouts  
  messages  
  reviews  
    _form.html.erb  
    _review.json.jbuilder  
    edit.html.erb  
    index.html.erb  
    index.json.jbuilder  
    new.html.erb  
    show.html.erb  
    show.json.jbuilder
```

```
Gemfile  
messages_controller.rb  
messaging.rb  
test_helper.rb  
messaging_test.rb  
show.html.erb  
  
1- <p>  
2   <b>Rating:</b>  
3   <%= @review.rating %>  
4 </p>  
5  
6- <p>  
7   <b>Comment:</b>  
8   <%= @review.comment %>  
9 </p>  
10  
11 <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %> |  
12 <%= link_to 'Back', product_reviews_path(@review.product) %>  
13  
14
```

```
bin  
config  
environments  
initializers  
locales  
application.rb  
boot.rb  
cable.yml  
database.yml  
environment.rb  
puma.rb  
routes.rb
```

```
messages_controller.rb  
registrations_controller.rb  
reviews_controller.rb  
  
helpers  
jobs  
mailers  
models  
views  
  devise  
  home  
  issues  
  layouts  
  messages  
  reviews  
    _form.html.erb  
    _review.json.jbuilder  
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    index.html.erb  
    index.json.jbuilder  
    new.html.erb  
    show.html.erb  
    show.json.jbuilder  
  
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config  
environments  
initializers  
locales  
application.rb  
boot.rb  
cable.yml  
database.yml  
environment.rb  
puma.rb  
routes.rb
```

```
Gemfile messages_controller.rb messaging.rb test_helper.rb messaging_test.rb show.html.erb  
1- <p>  
2   <b>Rating:</b>  
3   <%= @review.rating %>  
4 </p>  
5  
6- <p>  
7   <b>Comment:</b>  
8   <%= @review.comment %>  
9 </p>  
10  
11  <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %> |  
12  <%= link_to 'Back', product_reviews_path(@review.product) %>  
13 |  
14  <span class="action_1">  
15    <%= link_to 'Back', product_reviews_path(@review.product) %>  
16  </span>  
17- <% if current_customer.id == @review.customer.id %>  
18  <span class="action_2">  
19    <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %>  
20  </span>  
21 <% end %>  
22  
23
```

messages\_controller.rb  
registrations\_controller.rb  
reviews\_controller.rb  
**helpers**  
**jobs**  
**mailers**  
**models**  
**views**  
**devise**  
**home**  
**issues**  
**layouts**  
**messages**  
**reviews**  
    \_form.html.erb  
    \_review.json.jbuilder  
    edit.html.erb  
    index.html.erb  
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    new.html.erb  
    show.html.erb  
    show.json.jbuilder  
**bin**  
**config**  
**environments**  
**initializers**  
**locales**  
application.rb  
boot.rb  
cable.yml  
database.yml  
environment.rb  
puma.rb  
routes.rb

Gemfile messages\_controller.rb messaging.rb test\_helper.rb messaging\_test.rb show.html.erb

```
1- <p>
2   <b>Rating:</b>
3   <%= @review.rating %>
4 </p>
5
6- <p>
7   <b>Comment:</b>
8   <%= @review.comment %>
9 </p>
10 |
11
12 <span class="action_1"> I
13   <%= link_to 'Back', product_reviews_path(@review.product) %>
14 </span>
15- <% if current_customer.id == @review.customer.id %>
16   <span class="action_2">
17     <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %>
18   </span>
19 <% end %>
20
21
```

```
messages_controller.rb      Gemfile      messages_controller.rb      messaging.rb      test_helper.rb      messaging_test.rb      show.html.erb  
registrations_controller.rb  
reviews_controller.rb  
  
helpers  
jobs  
mailers  
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views  
  devise  
  home  
  issues  
  layouts  
  messages  
  reviews  
    _form.html.erb  
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    show.json.jbuilder  
  
bin  
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application.rb  
boot.rb  
cable.yml  
database.yml  
environment.rb  
puma.rb  
routes.rb  
  
7   <b>Comment:</b>  
8     <%= @review.comment %>  
9   </p>  
10  
11  
12   <span class="action_1">  
13     <%= link_to 'Back', product_reviews_path(@review.product) %>  
14   </span>  
15- <% if current_customer.id == @review.customer.id %>  
16   <span class="action_2">  
17     <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %>  
18   </span>  
19   <% else %>  
20- <span class="action_3">  
21-   <%= link_to(image_tag("mail.png"),  
22               messages_new_path(params: {originator: current_customer,  
23                                         recipient: @review.customer}),  
24               title: 'Send message to the reviewer',  
25               data: { confirm: "You want to message the reviewer?" }) %>  
26   </span>  
27 <% end %>  
28  
29
```

```
messages_controller.rb      Gemfile      messages_controller.rb      messaging.rb      test_helper.rb      messaging_test.rb      show.html.erb
registrations_controller.rb
reviews_controller.rb
helpers
jobs
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_form.html.erb
_review.json.jbuilder
edit.html.erb
index.html.erb
index.json.jbuilder
new.html.erb
show.html.erb
show.json.jbuilder
13   <%= link_to 'Back', product_reviews_path(@review.product) %>
14 </span>
15- <% if current_customer.id == @review.customer.id %>
16   <span class="action_2">
17     <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %>
18   </span>
19   <% else %>
20-   <span class="action_3">
21-     <%= link_to(image_tag("mail.png"),
22                  messages_new_path(params: {originator: current_customer,
23                                              recipient: @review.customer}),
24                  title: 'Send message to the reviewer',
25                  data: { confirm: "You want to message the reviewer?" }) %>
26   </span> I
27 <% end %>
28
29
```

```
messages_controller.rb      Gemfile      messages_controller.rb      messaging.rb      test_helper.rb      messaging_test.rb      show.html.erb
registrations_controller.rb
reviews_controller.rb
helpers
jobs
mailers
models
views
devise
home
issues
layouts
messages
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_form.html.erb
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new.html.erb
show.html.erb
show.json.jbuilder
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environments
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application.rb
boot.rb
cable.yml
database.yml
environment.rb
puma.rb
routes.rb

13   <%= link_to 'Back', product_reviews_path(@review.product) %>
14 </span>
15- <% if current_customer.id == @review.customer.id %>
16   <span class="action_2">
17     <%= link_to 'Edit', edit_product_review_path(@review.product, @review) %>
18   </span>
19   <% else %>
20-   <span class="action_3">
21-     <%= link_to(image_tag("mail.png"),
22-                 messages_new_path(params: {originator: current_customer,
23-                                           recipient: @review.customer}),
24-                 title: 'Send message to the reviewer',
25-                 data: { confirm: "You want to message the reviewer?" }) %>
26   </span>
27 <% end %>
28
29- <span class="action_4">
30-   <%= link_to(image_tag("mailbox.png"),
31-               messages_index_path(params: {mailbox: current_customer}),
32-               title: 'Read new messages',
33-               data: { confirm: "You want to read new messages?" }) %>
34 </span>
35
36
```

- starhub
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  - config
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  - stylesheets
- channels
- controllers
  - concerns
  - application\_controller.rb
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  - issues\_controller.rb
  - messages\_controller.rb
  - registrations\_controller.rb
  - reviews\_controller.rb
- helpers
- jobs
- mailers
- models
- views
  - devise
  - home
  - issues
  - layouts
  - messages
  - reviews
    - \_form.html.erb
    - \_review.json.jbuilder
    - edit.html.erb
    - index.html.erb
    - index.json.jbuilder

```
1- class MessagesController < ApplicationController
2
3   API_HOST = 'http://localhost:3010'
4
5   def create
6   |
7   end
8
9   def new
10  end
11
12  def index
13  end
14 end
15
```

starhub  
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index.html.erb  
index.json.jbuilder

Gemfile messages\_controller.rb messaging.rb test\_helper.rb messaging\_test.rb show.html.erb

```
1- class MessagesController < ApplicationController
2
3   API_HOST = 'http://localhost:3010'
4
5   def create
6
7   end
8
9   def new
10  @originator = Customer.find(params[:originator]).username
11  @recipient = Customer.find(params[:recipient]).username
12
13  def index
14
15  end
16
17
```

Definition:

[app/models/customer.rb:1](#)

The screenshot shows a terminal window with a file tree on the left and a code editor on the right.

**File Tree:**

- channels
- controllers
  - concerns
    - application\_controller.rb
    - home\_controller.rb
    - issues\_controller.rb
    - messages\_controller.rb
    - registrations\_controller.rb
    - reviews\_controller.rb
  - helpers
  - jobs
  - mailers
  - models
  - views
    - devise
    - home
    - issues
    - layouts
    - messages
      - create.html.erb
      - index.html.erb
      - new.html.erb**
  - reviews
    - \_form.html.erb
    - \_review.json.jbuilder
    - edit.html.erb
    - index.html.erb
    - index.json.jbuilder
    - new.html.erb
    - show.html.erb
    - show.json.jbuilder
- bin
- config
- environments

**Code Editor (messages\_controller.rb):**

```
1 <h1>New Message</h1>
2
3 <%= render 'form', originator: @originator, recipient: @recipient %>
4
5 <%= link_to 'Back', root_path%>
6
```

File Name: |

channels  
controllers  
concerns  
application\_controller.rb  
home\_controller.rb  
issues\_controller.rb  
messages\_controller.rb  
registrations\_controller.rb  
reviews\_controller.rb  
helpers  
jobs  
mailers  
models  
views  
devise  
home  
Issues  
layouts  
messages  
create.html.erb  
index.html.erb  
new.html.erb  
reviews  
\_form.html.erb  
\_review.json.jbuilder  
edit.html.erb  
index.html.erb  
index.json.jbuilder  
new.html.erb  
show.html.erb  
show.json.jbuilder  
bin  
config

Gemfile messages\_controller.rb new.html.erb messaging.rb test\_helper.rb messaging\_test.rb show.html.erb

```
1 <h1>New Message</h1>
2
3 <%= render 'form', originator: @originator, recipient: @recipient %>
4
5 <%= link_to 'Back', root_path%>
6
```

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar containing a file tree with the following structure:

- channels
- controllers
  - concerns
    - application\_controller.rb
    - home\_controller.rb
    - issues\_controller.rb
    - messages\_controller.rb
    - registrations\_controller.rb
    - reviews\_controller.rb
  - helpers
  - jobs
  - mailers
  - models
  - views
    - devise
    - home
    - issues
    - layouts
    - messages
      - \_form.html.erb
      - create.html.erb
      - index.html.erb
      - new.html.erb
    - reviews
      - \_form.html.erb
      - \_review.json.jbuilder
      - edit.html.erb
      - index.html.erb
      - index.json.jbuilder
      - new.html.erb
      - show.html.erb
      - show.json.jbuilder
- bin
- config

The main editor area displays an ERB template named `_form.html.erb`. The code is as follows:

```
1- <%= form_tag "/messages/create" do %>
  <%= hidden_field_tag 'message[originator]', originator %>
  <%= label_tag 'To: ', nil, class: 'field' %>
  <%= text_field_tag 'message[recipient]', recipient %>
  <br>
  <br>
  <%= label_tag 'content', nil, class: 'field' %>
  <br>
  <%= text_area_tag 'message[content]', 'your message here', rows: 10, cols:
    60 %>
  <br>
  <br>
  <%= submit_tag 'Send', class: 'actions' %>
  <br>
14 <% end %>
```

The code uses ERB syntax to generate HTML. Lines 1 through 14 are numbered on the left. The file tabs at the top show `Gemfile`, `messages_controller.rb`, `new.html.erb`, `_form.html.erb` (which is the active tab), `messaging.rb`, `test_helper.rb`, `messaging_test.rb`, and `show.html.erb`.

```
1- class MessagesController < ApplicationController
2
3   API_HOST = 'http://localhost:3010'
4
5   def create
6     @message = {content: params[:message][:content],
7                 originator: params[:message][:originator],
8                 recipient: params[:message][:recipient]}
9     gateway = Messaging.new(API_HOST)
10    gateway.send(@message) ? flash.now[:notice] = 'Message sent!' :
11      flash.now[:error] = 'Failed to send message!'
12
13    render 'show', message: @message
14  end
15
16  def new
17    @originator = Customer.find(params[:originator]).username
18    @recipient = Customer.find(params[:recipient]).username
19  end
20
21  def index
22  end
23
24
```

**concerns**  
application\_controller.rb  
home\_controller.rb  
issues\_controller.rb  
messages\_controller.rb  
registrations\_controller.rb  
reviews\_controller.rb

**helpers**  
**jobs**  
**mailers**  
**models**  
**views**  
**devise**  
**home**  
**issues**  
**layouts**  
**messages**

\_form.html.erb  
create.html.erb  
index.html.erb  
new.html.erb  
show.html.erb

**reviews**  
\_form.html.erb  
\_review.json.jbuilder  
edit.html.erb  
index.html.erb  
index.json.jbuilder  
new.html.erb  
show.html.erb  
show.json.jbuilder

**bin**  
**config**  
**environments**

Gemfile messages\_controller.rb show.html.erb — messages index.html.erb \_form.html.erb messaging.rb messages\_controller\_test.rb routes.rb

```
1- <p>
2   <b>Recipient:</b>
3   <%= @message.fetch(:recipient) %>
4 </p>
5
6- <p> I
7   <b>Content:</b>
8   <%= @message.fetch(:content) %>
9 </p>
10
11 <%= link_to 'Back', root_path %>
```

```
concerns
application_controller.rb
home_controller.rb
issues_controller.rb
messages_controller.rb
registrations_controller.rb
reviews_controller.rb
helpers
jobs
mailers
models
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home
Issues
layouts
messages
_form.html.erb
create.html.erb
index.html.erb
new.html.erb
show.html.erb
reviews
_form.html.erb
_review.json.jbuilder
edit.html.erb
index.html.erb
index.json.jbuilder
new.html.erb
show.html.erb
show.json.jbuilder
bin
config
environments
```

Gemfile messages\_controller.rb index.html.erb \_form.html.erb messaging.rb messages\_controller\_test.rb routes.rb test\_helper.rb row.html.erb

```
1- class MessagesController < ApplicationController
2
3   API_HOST = 'http://localhost:3010'
4
5   def create
6     @message = {content: params[:message][:content],
7                 originator: params[:message][:originator],
8                 recipient: params[:message][:recipient]}
9     gateway = Messaging.new(API_HOST)
10    gateway.send(@message) ? flash.now[:notice] = 'Message sent!' :
11      flash.now[:error] = 'Failed to send message!'
12
13    render 'show', message: @message
14  end
15
16  def new
17    @originator = Customer.find(params[:originator]).username
18    @recipient = Customer.find(params[:recipient]).username
19  end
20
21  def index
22
23  end
24 end
25
```

```
channels
controllers
concerns
application_controller.rb
home_controller.rb
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registrations_controller.rb
reviews_controller.rb
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show.json.jbuilder
Gemfile
messages_controller.rb
new.html.erb
_form.html.erb
messaging.rb
test_helper.rb
messaging_test.rb
show.html.erb
```

16 <span class="action\_2">  
17 => link\_to 'Edit', edit\_product\_review\_path(@review.product, @review) %>  
18 </span>  
19 <% else %>  
20- <span class="action\_3">  
21- => link\_to(image\_tag("mail.png"),  
22 messages\_new\_path(params: {originator: current\_customer,  
23 recipient: @review.customer}),  
24 title: 'Send message to the reviewer',  
25 data: { confirm: "You want to message the reviewer?" }) %>  
26 </span>  
27 <% end %>  
28  
29- <span class="action\_4">  
30- => link\_to(image\_tag("mailbox.png"),  
31 messages\_index\_path(params: {mailbox: current\_customer}),  
32 title: 'Read new messages',  
33 data: { confirm: "You want to read new messages?" }) %>  
34 </span>  
35  
36

```
Gemfile messages_controller.rb new.html.erb _form.html.erb messaging.rb test_helper.rb messaging_test.rb show.html.erb  
channels  
controllers  
concerns  
application_controller.rb  
home_controller.rb  
issues_controller.rb  
messages_controller.rb  
registrations_controller.rb  
reviews_controller.rb  
helpers  
jobs  
mailers  
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views  
devise  
home  
issues  
layouts  
messages  
_form.html.erb  
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new.html.erb  
reviews  
form.html.erb  
review.json.jbuilder  
edit.html.erb  
index.html.erb  
index.json.jbuilder  
new.html.erb  
show.html.erb  
show.json.jbuilder  
bin  
config
```

7            originator: params[:message][:originator],  
8            recipient: params[:message][:recipient]}  
9 gateway = Messaging.new(API\_HOST)  
10 gateway.send(@message) ? flash.now[:notice] = 'Message sent!' :  
11            flash.now[:error] = 'Failed to send message!'  
12  
13            render 'show', message: @messages  
14 end  
15  
16 def new  
17        @originator = Customer.find(params[:originator]).username  
18        @recipient = Customer.find(params[:recipient]).username  
19 end  
20  
21 def index  
22        gateway = Messaging.new(API\_HOST)  
23        @mailbox = Customer.find(params[:mailbox]).username  
24        @messages = gateway.receive(@mailbox, 1)  
25 end  
26 end  
27

```
1- class MessagesController < ApplicationController
2
3   API_HOST = 'http://localhost:3010'
4
5   def create
6     @message = {content: params[:message][:content],
7                  originator: params[:message][:originator],
8                  recipient: params[:message][:recipient]}
9     gateway = Messaging.new(API_HOST)
10    gateway.send(@message) ? flash.now[:notice] = 'Message sent!' :
11      flash.now[:error] = 'Failed to send message!'
12
13    render 'show', message: @message
14  end
15
16  def new
17    @originator = Customer.find(params[:originator]).username
18    @recipient = Customer.find(params[:recipient]).username
19  end
20
21  def index
22    gateway = Messaging.new(API_HOST)
23    @mailbox = Customer.find(params[:mailbox]).username
24    @messages = gateway.receive(@mailbox, 1)
25  end
26
27end
```

The screenshot shows a code editor interface with a sidebar and several tabs at the top.

**File Structure:**

- channels**
- controllers**
  - concerns**
    - application\_controller.rb
    - home\_controller.rb
    - issues\_controller.rb
    - messages\_controller.rb
    - registrations\_controller.rb
    - reviews\_controller.rb
  - helpers**
  - jobs**
  - mailers**
  - models**
  - views**
    - devise**
    - home**
    - issues**
    - layouts**
    - messages**
      - \_form.html.erb
      - create.html.erb
      - index.html.erb** (highlighted)
      - new.html.erb
    - reviews**
      - \_form.html.erb
      - \_review.json.jbuilder
      - edit.html.erb
      - index.html.erb
      - index.json.jbuilder
      - new.html.erb
      - show.html.erb
      - show.json.jbuilder
- bin**
- config**

**Top Tabs:**

- Gemfile
- messages\_controller.rb
- index.html.erb
- \_form.html.erb
- messaging.rb
- test\_helper.rb
- messaging\_test.rb
- show.html.erb

**Code View:**

```
1 <h1>Messages#index</h1>
2 <p>Find me in app/views/messages/index.html.erb</p>
3 |
```

channels  
controllers  
concerns  
application\_controller.rb  
home\_controller.rb  
issues\_controller.rb  
messages\_controller.rb  
registrations\_controller.rb  
reviews\_controller.rb  
helpers  
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devise  
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issues  
layouts  
messages  
\_form.html.erb  
create.html.erb  
**index.html.erb**  
new.html.erb  
reviews  
\_form.html.erb  
\_review.json.jbuilder  
edit.html.erb  
index.html.erb  
index.json.jbuilder  
new.html.erb  
show.html.erb  
show.json.jbuilder

Gemfile messages\_controller.rb index.html.erb \_form.html.erb messaging.rb test\_helper.rb messaging\_test.rb show.html.erb

```
1 <h1>Messages for <%= @mailbox %></h1>
2
3- <table>
4-   <thead>
5     <tr>
6       <th colspan="10"></th>
7     </tr>
8   </thead>
9
10- <tbody>
11-   <tr>
12     <th>From</th>
13     <th>Content</th>
14   </tr>
15- <% @messages.each do |msg| %>
16-   <tr>
17     <td><%= msg['originator'] %></td>
18     <td><%= msg['content'] %></td>
19   </tr>
20 <% end %>
21 </tbody>
22 </table>
```

```
_form.html.erb      Gemfile      messages_controller.rb  messages_controller_test.rb _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
.review.json.jbuilder
.edit.html.erb
.index.html.erb
.index.json.jbuilder
.new.html.erb
.show.html.erb
.show.json.jbuilder

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models
test_helper.rb

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.gitignore
.ruby-gemset
.ruby-version

1 require 'test_helper'
2
3- describe MessagesController do
4
5   AUTH_TOKEN = "123456"
6
7- before do
8   @customer = customers(:sarah)
9   expected_response = {"auth_token": AUTH_TOKEN}.to_json
10- stub_request(:post, "#{MessagesController::API_HOST}/authenticate").
11   with(body: {name: "starhub", password: "123secret"}.to_json,
12       headers: {'Content-Type': 'application/json'}).
13   to_return(status: 200, body: expected_response, headers: {})
14 end
15
16- it "shows unread messages for mailbox" do
17   url = "#{MessagesController::API_HOST}/messages?mailbox=#{@customer.
18     username}&status=1"
19   expected_response = [{"id":3,"originator":"thomas","content":"this is my
20     message","recipient":"fred","status":1}].to_json
21
22   stub_request(:get, url).with( headers: {'Authorization': AUTH_TOKEN}).
23   to_return( status: 200, body: expected_response, headers: {} )
24
25   Customer.stub(:find, @customer) do
26     get messages_index_url
27     must_respond_with :success
end
```

```
_form.html.erb      Gemfile      messages_controller.rb      messages_controller_test.rb      _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
review.json.jbuilder
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index.html.erb
index.json.jbuilder
new.html.erb
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show.json.jbuilder

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.ruby-gemset
.ruby-version

1  require_relative '../test_helper'
2
3- class MessagingTest < Minitest::Test
4   API_HOST = 'http://localhost:3010'
5
6-   def setup
7     @test_sender = 'test_sender'
8     @test_recipient = 'test_recipient'
9
10
11    expected_response = {"auth_token": "12345"}.to_json
12-   stub_request(:post, "#{API_HOST}/authenticate").
13     with(body: {name: "starhub", password: "123secret"}).to_json,
14     headers: {'Content-Type': 'application/json'}).
15     to_return(status: 200, body: expected_response, headers: {})
16
17    @gateway = Minitest::Mock.new(Messaging.new(API_HOST))
18  end
19
20- def test_send
21  msg = {content: "this is a test", originator: @test_sender, recipient: @
22    test_recipient}
23
24  @gateway.expect(:send, true, [msg])
25  @gateway.send(msg)
26  assert_mock @gateway
27
28- def test_receive_all_statuses
```

```
_form.html.erb      Gemfile      messages_controller.rb      messages_controller_test.rb      _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
review.json.jbuilder
edit.html.erb
index.html.erb
index.json.jbuilder
new.html.erb
show.html.erb
show.json.jbuilder

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reviews_controller_test.rb
fixtures
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integration
mailers
models
test_helper.rb
tmp
vendor
.gitignore
.ruby-gemset
.ruby-version

1 require 'test_helper'
2
3- describe MessagesController do
4
5   AUTH_TOKEN = "123456"
6
7- before do
8   @customer = customers(:sarah)
9   expected_response = {"auth_token": AUTH_TOKEN}.to_json
10  stub_request(:post, "#{MessagesController::API_HOST}/authenticate").
11    with(body: {name: "starhub", password: "123secret"}.to_json,
12        headers: {'Content-Type': 'application/json'}).
13    to_return(status: 200, body: expected_response, headers: {})
14 end
15
16- it "shows unread messages for mailbox" do
17   url = "#{MessagesController::API_HOST}/messages?mailbox=#{@customer.
18     username}&status=1"
19   expected_response = [{"id":3,"originator":"thomas","content":"this is my
20     message","recipient":"fred","status":1}].to_json
21
22   stub_request(:get, url).with( headers: {'Authorization': AUTH_TOKEN}).
23     to_return( status: 200, body: expected_response, headers: {} )
24
25   Customer.stub(:find, @customer) do
26     get messages_index_url
27     must_respond_with :success
end
```

```
form.html.erb      Gemfile      messages_controller.rb      messages_controller_test.rb      _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
review.json.jbuilder
edit.html.erb
index.html.erb
index.json.jbuilder
new.html.erb
show.html.erb
show.json.jbuilder
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reviews_controller_test.rb
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.gitignore
.ruby-gemset
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8    @customer = customers(:sarah)
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10-   stub_request(:post, "#{MessagesController::API_HOST}/authenticate").
11     with(body: {name: "starhub", password: "123secret"}.to_json,
12         headers: {'Content-Type': 'application/json'}).
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17  url = "#{MessagesController::API_HOST}/messages?mailbox=#{@customer.
18    username}&status=1"
19  expected_response = [{"id":3,"originator":"thomas","content":"this is my
20    message","recipient":"fred","status":1}].to_json
21
22  stub_request(:get, url).with( headers: {'Authorization': AUTH_TOKEN}).
23    to_return( status: 200, body: expected_response, headers: {} )
24
25  Customer.stub(:find, @customer) do
26    get messages_index_url
27    must_respond_with :success
28  end
29
30- it "shows new message" do
31  Customer.stub(:find, @customer) do
32    get messages_new_url
33    must_respond_with :success
```

```
_form.html.erb      Gemfile      messages_controller.rb  messages_controller_test.rb _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
review.json.jbuilder
edit.html.erb
index.html.erb
index.json.jbuilder
new.html.erb
show.html.erb
show.json.jbuilder
23
24- Customer.stub(:find, @customer) do
25     get messages_index_url
26     must_respond_with :success
27 end
28 end
29
30- it "shows new message" do
31-     Customer.stub(:find, @customer) do
32         get messages_new_url
33         must_respond_with :success
34     end
35 end
36
37- it "creates new message" do
38     url = "#{MessagesController::API_HOST}/messages"
39-     test_message = {message: {content: 'this is a test',
40                               originator: @customer.username,
41                               recipient: 'fred'}}
42
43-     request_body = {content: "this is a test",
44                     originator: "sarky",
45                     recipient: "fred"}.to_json
46
47-     stub_request(:post, url).
48-         with(body: request_body,
49             headers: {'Authorization': AUTH_TOKEN,
50                       'Content-Type': 'application/json'}).
51         to_return(status: 200, body: "", headers: {})
```

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messaging\_test.rb

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```
_form.html.erb      Gemfile      messages_controller.rb  messages_controller_test.rb _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
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.ruby-gemset
.ruby-version

30- it "shows new message" do
31-   Customer.stub(:find, @customer) do
32-     get messages_new_url
33-     must_respond_with :success
34-   end
35- end
36
37- it "creates new message" do
38-   url = "#{MessagesController::API_HOST}/messages"
39-   test_message = {message: {content: 'this is a test',
40-                             originator: @customer.username,
41-                             recipient: 'fred'}}
42
43-   request_body = {content: "this is a test",
44-                   originator: "sarky",
45-                   recipient: "fred"}.to_json
46
47-   stub_request(:post, url).
48-     with(body: request_body,
49-          headers: {'Authorization': AUTH_TOKEN,
50-                    'Content-Type': 'application/json'}).
51-     to_return(status: 200, body: "", headers: {})
52
53
54- Customer.stub(:find, @customer) do
55-   get messages_create_url, params: test_message
56-   must_respond_with :success
57- end
58- end
```

```
_form.html.erb      Gemfile      messages_controller.rb      messages_controller_test.rb      _form.html.erb      messaging.rb      test_helper.rb      messaging_test.rb
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fixtures
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test_helper.rb
tmp
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.gitignore
.ruby-gemset
.ruby-version
35      end
36
37-     it "creates new message" do
38         url = "#{MessagesController::API_HOST}/messages"
39         test_message = {message: {content: 'this is a test',
40                               originator: @customer.username,
41                               recipient: 'fred'}}
42
43-     request_body = {content: "this is a test",
44                     originator: "sarky",
45                     recipient: "fred"}.to_json
46
47-     stub_request(:post, url).
48-       with(body: request_body,
49             headers: {'Authorization': AUTH_TOKEN,
50                       'Content-Type': 'application/json'}).
51       to_return(status: 200, body: "", headers: {})
52
53
54-     Customer.stub(:find, @customer) do
55         get messages_create_url, params: test_message
56         must_respond_with :success
57     end
58   end
59
60 end
61
```

Customer::has_reviews	
test_0002_thomas should have many reviews	PASS (0.00s)
test_0003_yasmine should have no reviews	PASS (0.00s)
test_0001_sarah should have many reviews	PASS (0.00s)
ReviewsController::Review write methods	
test_0002Creates review	PASS (0.02s)
test_0001Updates review	PASS (0.01s)
test_0003Destroys review	PASS (0.01s)
Product::has_reviewing_customers	
test_0001monopoly should have many reviewing_customers	PASS (0.00s)
Product::has_issues	
test_0001monopoly should have many issues	PASS (0.00s)
test_0002stratego should have no issues	PASS (0.00s)
HomeController::GET index	
test_0002redirects unauthorized user	PASS (0.01s)
test_0001responds with :success to authorized user	PASS (0.03s)
ReviewsController::Review read methods	
test_0002gets new review	PASS (0.02s)
test_0003show review	PASS (0.01s)
test_0004edits review	PASS (0.01s)
test_0001gets index	PASS (0.01s)
IssuesController::Issue read methods	
test_0001gets index	PASS (0.01s)
test_0002gets new issue	PASS (0.02s)
test_0004edits issue	PASS (0.01s)
test_0003show issue	PASS (0.02s)

Finished in 0.72424s  
36 tests, 44 assertions, 0 failures, 0 errors, 0 skips

fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starhub on master! using ruby-2.3.3@starhub  
±

fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starhub on master! using ruby-2.3.3@starhub  
± cd ../starmail  
fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starmail on master! using ruby-2.3.3@starmail  
± rails s

fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starhub on master! using ruby-2.3.3@starhub  
±

---

fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starhub on master! using ruby-2.3.3@starhub  
± cd ../starmail  
fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starmail on master! using ruby-2.3.3@starmail  
± rails s -p 3010

fred at fred-HP-Ubuntu in ~/Work/expert\_rails\_5/starhub on master! using ruby-2.3.3@starhub  
±

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± cd ../starmail
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starmail on master! using ruby-2.3.3@starmail
± rails s -p 3010
=> Booting Puma
=> Rails 5.0.1 application starting in development on http://localhost:3010
=> Run `rails server -h` for more startup options
Puma starting in single mode...
* Version 3.7.0 (ruby 2.3.3-p222), codename: Snowy Sagebrush
* Min threads: 5, max threads: 5
* Environment: development
* Listening on tcp://0.0.0.0:3010
Use Ctrl-C to stop
```

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± rails s
=> Booting Puma
=> Rails 5.0.1 application starting in development on http://localhost:3000
=> Run `rails server -h` for more startup options
Puma starting in single mode...
* Version 3.7.0 (ruby 2.3.3-p222), codename: Snowy Sagebrush
* Min threads: 5, max threads: 5
* Environment: development
* Listening on tcp://0.0.0.0:3000
Use Ctrl-C to stop
```

---

```
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starhub on master! using ruby-2.3.3@starhub
± cd ../starmail
fred at fred-HP-Ubuntu in ~/Work/expert_rails_5/starmail on master! using ruby-2.3.3@starmail
± rails s -p 3010
=> Booting Puma
=> Rails 5.0.1 application starting in development on http://localhost:3010
=> Run `rails server -h` for more startup options
Puma starting in single mode...
* Version 3.7.0 (ruby 2.3.3-p222), codename: Snowy Sagebrush
* Min threads: 5, max threads: 5
* Environment: development
* Listening on tcp://0.0.0.0:3010
Use Ctrl-C to stop
```



You need to sign in or sign up before continuing.

## Log in

Email

Password

Remember me

[Sign up](#)

[Forgot your password?](#)

layouts/app

)

layouts/app

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Connecting...  
localhost:3000/customers/sign\_in

You need to sign in or sign up before continuing.

## Log in

Email  
fred@gmail.com

Password  
\*\*\*\*\*

Remember me

[Sign up](#)   
[Forgot your password?](#)

Starhub - QupZilla

Starhub

http://localhost:3000/customers/sign\_in

## Log in

Email

Password

Remember me

[Sign up](#)  
[Forgot your password?](#)

Packt

Sending request to localhost...  
localhost (127.0.0.1)



Starhub

localhost:3000

Signed in successfully.

# Starhub Products

**Wolfenstein  
SHOOTER****Reviews**[see all](#)  
[Reviews](#)  
[Add a](#)  
[Review](#)**Issues**[See all](#)  
[Issues](#)  
[Report](#)  
[an](#)  
[Issue](#)[Edit](#)  
[Destroy](#)**Age Of  
Zombies  
RPG****Reviews**[see all](#)  
[Reviews](#)  
[Add a](#)  
[Review](#)**Issues**[See all](#)  
[Issues](#)  
[Report](#)  
[an](#)  
[Issue](#)[Edit](#)  
[Destroy](#)**Lounge  
Larry 2106  
ARCADE****Reviews**[see all](#)  
[Reviews](#)  
[Add a](#)**Issues**[See all](#)  
[Issues](#)  
[Report](#)

Starhub

+

[Home](#) [Back](#) [Forward](#) [Stop](#) [Search](#)

http://localhost:3000/customers/sign\_in

Duck... [Search](#)

## Log in

Email

Password

 Remember me[Log in](#)[Sign up](#)[Forgot your password?](#)



Signed in successfully.

# Starhub Products

 Wolfenstein SHOOTER	<b>Reviews</b>  <a href="#">see all</a> <a href="#">Reviews</a> <a href="#">Add a Review</a>	<b>Issues</b> <a href="#">See all</a> <a href="#">Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Age Of Zombies RPG	<b>Reviews</b>  <a href="#">see all</a> <a href="#">Reviews</a> <a href="#">Add a Review</a>	<b>Issues</b> <a href="#">See all</a> <a href="#">Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Lounge Larry 2106 ARCADE	<b>Reviews</b>  <a href="#">see all</a> <a href="#">Reviews</a> <a href="#">Add a</a>	<b>Issues</b>  <a href="#">See all</a> <a href="#">Issues</a> <a href="#">Report</a>

Starhub

[http://localhost:3000/customers/sign\\_in](http://localhost:3000/customers/sign_in)

Duck... 

## Log in

Email

ben@yahoo.com

Password

..... 

Remember me

[Log in](#)

[Sign up](#)

[Forgot your password?](#)

\_rails\_command s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000

Signed in successfully.

## Starhub Products

Image	Name	Type	Reviews	Issues	Actions
	Wolfenstein	SHOOTER	3 reviews (2 hearts)	See all Issues   Add a Review	Edit   Destroy
	Age Of Zombies	RPG	3 reviews (2 hearts)	See all Issues   Add a Review	Edit   Destroy
	Lounge Larry 2106	ARCADE	3 reviews (2 hearts)	See all Issues   Add a Review	Edit   Destroy

Starhub - QupZilla

Starhub

http://localhost:3000/

Signed in successfully.

## Starhub Products

Image	Name	Type	Reviews	Issues	Actions
	Wolfenstein	SHOOTER	3 reviews (2 hearts)	see all Reviews   Add a Review	See all Issues   Report an Issue   Edit   Destroy
	Age Of Zombies	RPG	3 reviews (2 hearts)	see all Reviews   Add a Review	See all Issues   Report an Issue   Edit   Destroy
	Lounge Larry	2106	3 reviews (2 hearts)	See all Issues   Add a Review	Report an Issue   Edit   Destroy

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews/new

# New Review for Wolfenstein

Rating 1 is worst, 5 is best

Comment

Create Review

Back

Starhub - QupZilla

Starhub

http://localhost:3000/

Signed in successfully.

## Starhub Products

	Reviews	Issues
	Wolfenstein SHOOTER  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a>
	Age Of Zombies RPG  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a>
	Lounge Larry 2106  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	 <a href="#">Issues</a>

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews/new

# New Review for Wolfenstein

Rating 5

Comment so cool!

Create Review

Back

Starhub - QupZilla

Starhub

http://localhost:3000/

Signed in successfully.

## Starhub Products

	Reviews	Issues
 Wolfenstein SHOOTER	  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Age Of Zombies RPG	  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Lounge Larry 2106	 	

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

# New Review for Wolfenstein

## 1 error prohibited this review from being saved:

- Comment is too short (minimum is 10 characters)

Rating 5

Comment

so cool this is good game!

Create Review

Back

Starhub - QupZilla

Starhub

http://localhost:3000/

Signed in successfully.

## Starhub Products

	Reviews	Issues
 Wolfenstein SHOOTER	  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Age Of Zombies RPG	  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Lounge Larry 2106	 	

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews/5

Review was successfully created.

Rating: 5

Comment: so cool this is good game!

Back Edit

Starhub - QupZilla

Starhub

http://localhost:3000/

Signed in successfully.

# Starhub Products

	Reviews	Issues
 Wolfenstein SHOOTER	  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Age Of Zombies RPG	  <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<a href="#">See all Issues</a> <a href="#">Report an Issue</a> <a href="#">Edit</a> <a href="#">Destroy</a>
 Lounge Larry 2106	 	

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Eni 14:16 Fred

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

# Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#)

[Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/

Signed in successfully.

# Starhub Products

 <b>Wolfenstein</b> SHOOTER	<b>Reviews</b>    <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<b>Issues</b> <a href="#">See all Issues</a> <a href="#">Report an Issue</a>
 <b>Age Of Zombies</b> RPG	<b>Reviews</b>     <a href="#">see all Reviews</a> <a href="#">Add a Review</a>	<b>Issues</b> <a href="#">See all Issues</a> <a href="#">Report an Issue</a>
 <b>Lounge Larry</b> 2106	<b>Reviews</b>    	<b>Issues</b> 

Packt

localhost (127.0.0.1)



Starhub

localhost:3000/products/1/reviews

## Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#)

[Back to products](#)

Starhub

http://localhost:3000/products/1/reviews

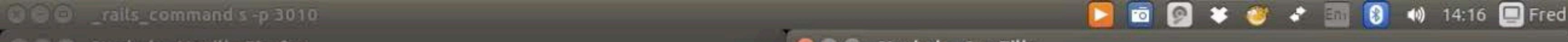
## Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
5	so cool this is good game!	<a href="#">Show</a>

[New Review](#)

[Back to products](#)



\_rails\_command s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

## Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#)

[Back to products](#)

Starhub - QupZilla

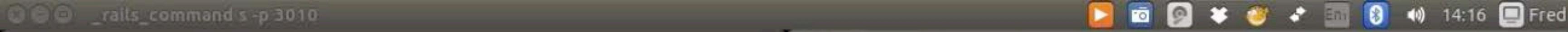
Starhub

http://localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

[Back](#)



\_rails\_command s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

# Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#) [Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

Back  Send message to the reviewer 

Starhub

localhost:3000/products/1/reviews

# Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#) [Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

Back 

 **Read new messages**



\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

The screenshot shows a web page titled "Reviews for Wolfenstein". On the left, there is a large image of a target. Below it is a table with two rows of review data. The first row has a "Rating" of 3 and a comment "this is a good game" with "Show" and "Edit Destroy" links. The second row has a "Rating" of 5 and a comment "so cool this is good game!" with "Show", "Edit", and "Destroy" links. At the bottom are "New Review" and "Back to products" buttons.

## Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#)

[Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/products/1/reviews/5

The screenshot shows a web page titled "Starhub" with the URL "http://localhost:3000/products/1/reviews/5". It displays a review with a rating of 5 and the comment "so cool this is good game!". Below the comment are "Back", "Send message to the reviewer", and "Edit" buttons. A tooltip for the "Send message to the reviewer" button says "Send message to the reviewer".

Rating: 5

Comment: so cool this is good game!

[Back](#)



Send message to  
the reviewer





Starhub

localhost:3000/products/1/reviews

Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

New Review

Starhub

http://localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

Back

You want to message the reviewer?

Cancel OK



rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

This screenshot shows a Mozilla Firefox browser window with a blue header bar. The title bar says "Starhub". The address bar shows "localhost:3000/products/1/reviews". The main content area has a large heading "Reviews for Wolfenstein" and a thumbnail image of a target. Below the heading is a table with columns "Rating", "Comment", and "Actions". There are two rows of data: one with rating 3 and comment "this is a good game" with links "Show" and "Edit Destroy"; another with rating 5 and comment "so cool this is good game!" with links "Show", "Edit", and "Destroy". At the bottom are links "New Review" and "Back to products".

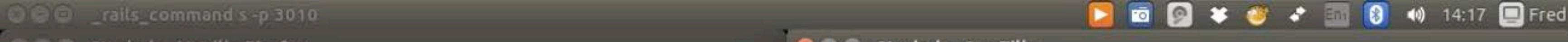
Starhub - QupZilla

Starhub

http://localhost:3000/messages/new?originator=2

Duck...

This screenshot shows a QupZilla browser window with a white header bar. The title bar says "Starhub". The address bar shows "http://localhost:3000/messages/new?originator=2". The main content area has a large heading "New Message". It contains a "To:" field with the value "freddo", a "Content" section with a text area containing "your message here", and a "Send" button at the bottom. There is also a "Back" link below the send button.



\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

## Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#)

[Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/messages/new?originator=2

Duck...

## New Message

To: freddo

Content

thanks for the review!

[Send](#)

[Back](#)



\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#) [Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/messages/create

Message sent!

Recipient: freddo

Content: thanks for the review!

[Back](#)

Duck...

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews

# Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#)

[Back to products](#)

Starhub - QupZilla

Starhub

http://localhost:3000/

# Starhub Products

Image	Name	Type	Reviews	Issues
	Wolfenstein	SHOOTER	 <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>
	Age Of Zombies	RPG	 <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>
	Lounge Larry 2106	ARCADE	 <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub - QupZilla

14:17 Fred

# Reviews for Wolfenstein



Rating	Comment	Actions
3	this is a good game	<a href="#">Show</a>
5	so cool this is good game!	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New Review](#) [Back to products](#)

localhost:3000/products/1/reviews/5

# Starhub Products

	<b>Wolfenstein</b> SHOOTER	<b>Reviews</b>   <a href="#">see all Reviews</a>	<b>Issues</b> <a href="#">See all Issues</a>
	<b>Age Of</b> Zombies RPG	<b>Reviews</b>   <a href="#">see all Reviews</a>	<b>Issues</b> <a href="#">See all Issues</a>
	<b>Lounge Larry</b> 2106 ARCADE	<b>Reviews</b>   <a href="#">see all Reviews</a>	<b>Issues</b>  <a href="#">See all Issues</a>

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

Back Edit

Starhub - QupZilla

Starhub

http://localhost:3000/

Duck...

# Starhub Products

	Reviews	Issues
 Wolfenstein SHOOTER	  <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>
 Age Of Zombies RPG	  <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>
 Lounge Larry 2106 ARCADE	  <a href="#">see all Reviews</a>	 <a href="#">See Issues</a>

Packt

localhost (127.0.0.1)

\_rails\_command\_s -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

Back Edit

Read new messages

Starhub - QupZilla

Starhub

http://localhost:3000/

Duck...

# Starhub Products

	Reviews	Issues
 Wolfenstein SHOOTER	  <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>
 Age Of Zombies RPG	  <a href="#">see all Reviews</a>	<a href="#">See all Issues</a>
 Lounge Larry 2106 ARCADE	  <a href="#">see all Reviews</a>	 <a href="#">See all Issues</a>

localhost:3000/messages/index?mailbox=1

localhost (127.0.0.1)

Packt

## Starhub - Mozilla Firefox

Starhub

localhost:3000/products/1/reviews/5

Rating: 5

Comment: so cool this is good game!

[Back](#) [Edit](#)

You want to read new messages?

Prevent this page from creating additional dialogues

[Cancel](#) [OK](#)

## Starhub - QupZilla

Starhub

http://localhost:3000/

Duck...

## Starhub Products

		Reviews	Issues
	<b>Wolfenstein</b> <b>SHOOTER</b>	  <a href="#">see all</a> <a href="#">Reviews</a>	<a href="#">See</a> <a href="#">all</a> <a href="#">Issues</a> <a href="#">Report</a> <a href="#">an</a> <a href="#">Issue</a>
	<b>Age Of</b> <b>Zombies</b> <b>RPG</b>	  <a href="#">see all</a> <a href="#">Reviews</a>	<a href="#">See</a> <a href="#">all</a> <a href="#">Issues</a> <a href="#">Report</a> <a href="#">an</a> <a href="#">Issue</a>
	<b>Lounge Larry</b> <b>2106</b> <b>ARCADE</b>	  <a href="#">see all</a>	 <a href="#">See</a> <a href="#">Packt</a>

\_rails\_commands -p 3010

Starhub - Mozilla Firefox

Starhub

localhost:3000/messages/index?mailbox=1

# Messages for freddo

**From** Content

batman thanks for the review!

[Back](#)

Starhub - QupZilla

Starhub

http://localhost:3000/

# Starhub Products

Image	Name	Type	Reviews	Issues
	Wolfenstein	SHOOTER	<span style="color: red;">☆☆</span> <span style="color: red;">☆☆</span>	<a href="#">see all</a> <a href="#">Reviews</a>  <a href="#">Add a Review</a>
	Age Of Zombies	RPG	<span style="color: red;">☆☆</span> <span style="color: red;">☆☆</span>	<a href="#">see all</a> <a href="#">Reviews</a>  <a href="#">Add a Review</a>
	Lounge Larry	ARCADE	<span style="color: red;">☆☆</span> <span style="color: red;">☆☆</span>	<a href="#">see all</a>  <span style="color: yellow;">!</span>

Packt

localhost (127.0.0.1)

## Summary

- Set up our Rails project elements to consume APIs
- Implemented and tested an API adaptor object
- Created incoming and outgoing workflows and implementing them with controllers and views
- Ran API and main application and watching them in action

# User Presence

Next Section

