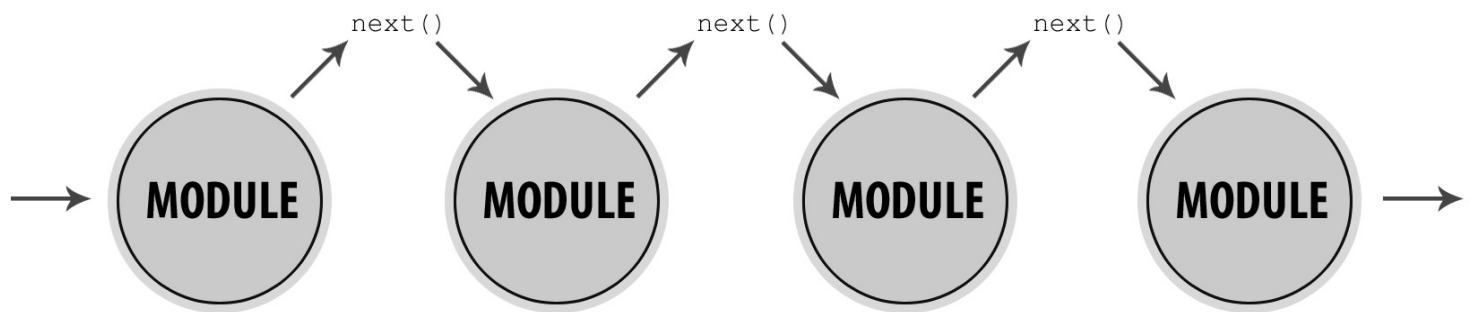


Chapter 1: Common Programming Paradigms



```
$ node .\server-test.js  
new request: / - 16:58:30:434  
B 16:58:35:437  
new request: /immediately - 16:58:35:440  
A 16:58:35:441
```

```
$ node .\server-test.js  
new request: / - 17:54:45:753  
new request: /immediately - 17:54:46:82  
A 17:54:46:84  
B 17:54:50:768
```

Chapter 2: Developing a Basic Site with Node.js and Express

```
└─ myapp
  └─ bin
    └─ www
  └─ public
    └─ images
    └─ javascripts
    └─ stylesheets
  └─ routes
    └─ index.js
    └─ user.js
  └─ views
    └─ error.jade
    └─ index.jade
    └─ layout.jade
  └─ app.js
  └─ package.json
```

```
express@4.0.0 node_modules\express
├── methods@0.1.0
├── parseurl@1.0.1
├── merge-descriptors@0.0.2
├── utils-merge@1.0.0
├── escape-html@1.0.1
├── debug@0.8.0
├── cookie-signature@1.0.3
├── range-parser@1.0.0
├── fresh@0.2.2
├── qs@0.6.6
├── buffer-crc32@0.2.1
├── cookie@0.1.0
├── path-to-regexp@0.1.2
├── type-is@1.0.0 (mime@1.2.11)
├── send@0.2.0 (mime@1.2.11)
├── accepts@1.0.0 (mime@1.2.11, negotiator@0.3.0)
└── serve-static@1.0.1 (send@0.1.4)
```

Chapter 3: Writing a Blog Application with Node.js and AngularJS

```
└─ project
  └─ controllers
  └─ models
    └─ Articles.js
  └─ public
  └─ views
  └─ index.js
  └─ package.json
```

Chapter 4: Developing a Chat with Socket.IO

```
├── css
│   └── styles.css
├── html
│   └── page.html
├── node_modules
├── index.js
└── package.json
```

Welcome!

John: Hello David!

David: Hello John. How are you.

John: Good thanks.

David: That's a great chat. Isn't it?

John: Yep, it looks good.

John: It's Node.js + Socket.io application.

David: Sounds interesting

Peter: Hi guys.

David: Hi Peter, David is here as well.

Peter: Ah that's great. How are you David

David: I'm good thanks.

John: I have to go. See you later.

David: Bye John

Peter: Bye John and have a nice day ;)

John: Thank you guys ;)

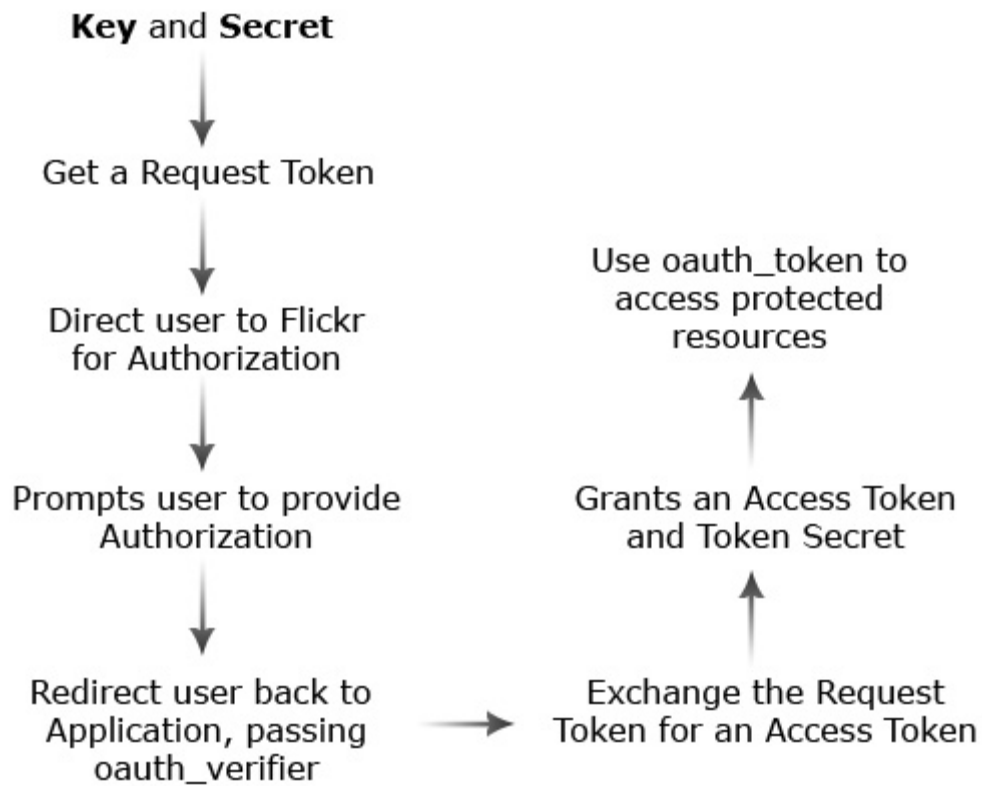
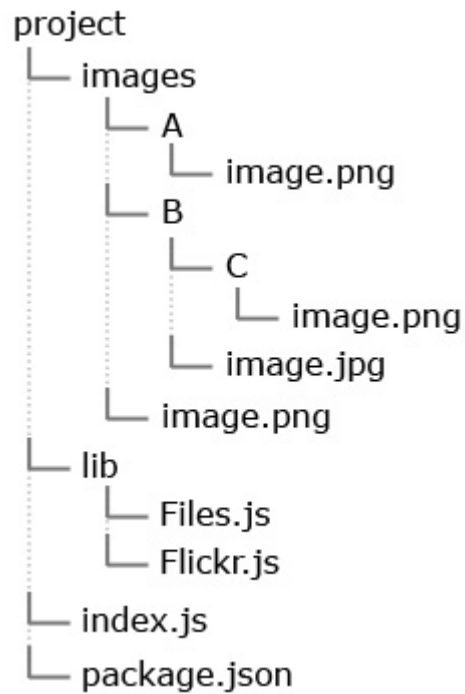
John

|

Chapter 5: Creating a To-do Application with Backbone.js

```
project
├── css
│   └── styles.css
├── html
│   └── page.html
├── js
│   ├── collections
│   │   └── Todos.js
│   ├── models
│   │   └── ToDo.js
│   ├── vendors
│   │   ├── backbone.js
│   │   ├── jquery-1.10.2.min.js
│   │   └── underscore-min.js
│   ├── views
│   │   ├── add.js
│   │   ├── edit.js
│   │   └── list.js
│   └── app.js
└── index.js
```

Chapter 6: Using Node.js as a Command-line Tool



The App Garden

[Create an App](#) | [API Documentation](#) | [Feeds](#) | [What is the App Garden?](#)

First, we need to know whether or not your app is commercial.

Choose **Non-Commercial** if:

- Your app doesn't make money.
- Your app makes money, but you're a family-run, small, or independent business.
- You're developing a product which is not currently commercial, but might be in the future.
- You're building a personal website or blog where you are only using your own images.

[APPLY FOR A NON-COMMERCIAL KEY](#)

or

Choose **Commercial** if:

- You or your agency works for a major brand.
- AND one of the following:
- You want to make a profit.
 - You charge a fee for your product or services.
 - You will bring Flickr content into your product and intend to sell those services.

[APPLY FOR A COMMERCIAL KEY](#)

Tell us about your app:

Owner **KrasimirTsonev**

i This app will be associated with your **KrasimirTsonev** account. You will not be able to change this after you submit your application.

What's the name of your app?

What are you building?
(And trust us when we say you can't be detailed enough)

I acknowledge that Flickr members own all rights to their content, and that it's my responsibility to make sure that my project does not contravene those rights.

I agree to comply with the [Flickr API Terms of Use](#).

or [Cancel](#)

The App Garden

[Create an App](#) | [API Documentation](#) | [Feeds](#) | [What is the App Garden?](#)

Done! Here's the API key and secret for your new app:



Node.js command line tool

Key:

78ab5d81a61f6bd75417527bfed4b163

Secret:

2c0bc847c2daedd1

[Edit app details](#) - [Edit auth flow for this app](#) - [View all Apps by You](#)

```
Please type a path to directory:
```

```
Please type a path to directory: images
Found images:
\images\A\image.png
\images\B\C\image.png
\images\B\image.jpg
\images\image.png
Are you sure (y/n)? _
```

 **Node.js command line tool wants to link to your Flickr account.**

This is a third-party service. If you don't trust it with access to your account, then you should not authorize it.

By authorizing this link, you'll allow **Node.js command line tool** to:

- ✔ **Access** your Flickr account (including private content)
- ✔ **Upload, Edit, and Replace** photos and videos in your account
- ✔ **Interact** with other members' photos and videos (comment, add notes, favorite)

Node.js command line tool will *not* have permission to:

- ✘ **Delete** photos and videos from your account

OK, I'LL AUTHORIZE IT

NO THANKS

Your Yahoo! and Flickr passwords will always remain private, but **Node.js command line tool** will have the permissions listed above until you revoke its link to your account. (You can revoke such links at any time in the [Extending Flickr](#) section of your account prefs.)

What's going on here?

Flickr encourages other developers to build cool tools for you to play with, but you must authorize these third parties to access your account.

Want to know more?

A wealth of information lies within the [Flickr Services](#) page.

```
fullname = Krasimir Tsonev
oauth_token = 72157639968574353-895de370c5997f98
oauth_token_secret = 4eba51016cab81fa
user_nsid = 114621618@N06
username = KrasimirTsonev
```

```
Please type a path to directory: images
Found images:
\images\A\image.png
\images\B\C\image.png
\images\B\image.jpg
\images\image.png
Are you sure (y/n)? y
Server running at http://127.0.0.1:3000/
Uploading \images\A\image.png
Uploading \images\B\C\image.png
Uploading \images\B\image.jpg
Uploading \images\image.png
All the images uploaded.
```

Chapter 7: Showing a Social Feed with Ember.js

View Tree	Route Name	Route	Controller	Template	URL
# Routes	application	ApplicationRoute	ApplicationController	application	
Data	post	PostRoute	PostController	post	
	post.edit	PostEditRoute	PostEditController	post/edit	/post/:post_id/edit
	comments	CommentsRoute	CommentsController	comments	
	comments.new	CommentsNewRoute	CommentsNewController	comments/new	/post/:post_id/comments/new
	comments.index	CommentsIndexRoute	CommentsIndexController	comments/index	/post/:post_id/comments
	post.index	PostIndexRoute	PostIndexController	post/index	/post/:post_id
	index	IndexRoute	IndexController	index	/

View Tree	Route Name	Route	Controller	Template	URL
# Routes	application	ApplicationRoute	ApplicationController	application	
Data	books	BooksRoute	BooksController	books	/books
	index	IndexRoute	IndexController	index	/

```

project
├── css
│   └── styles.css
├── html
│   └── page.html
├── js
│   ├── ember-1.3.1.js
│   ├── handlebars-1.1.2.js
│   ├── jquery-1.10.2.js
│   └── scripts.js
├── node_modules
└── index.js
  
```

Create an application

Application Details

Name: *

Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.

Description: *

Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.

Website: *

Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified URL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens.

(If you don't have a URL yet, just put a placeholder here but remember to change it later.)

Callback URL:

Where should we return after successfully authenticating? For [@Anywhere applications](#), only the domain specified in the callback will be used. [OAuth 1.0a](#) applications should explicitly specify their `oauth_callback` URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.

[Details](#)[Settings](#)[API Keys](#)[Permissions](#)

Test Applicaton

<http://krasimirtsonev.com>

Organization

Information about the organization or company associated with your application. This information is optional.

Organization	None
--------------	------

Organization website	None
----------------------	------

Application settings

Your application's API keys are used to [authenticate](#) requests to the Twitter Platform.

Access level	Read-only (modify app permissions)
--------------	--

API key	LFUXY0qAYtSaJ6OEn6oxNu5A1 (manage API keys)
---------	---

Callback URL	None
--------------	------

Sign in with Twitter	No
----------------------	----

App-only authentication	https://api.twitter.com/oauth2/token
-------------------------	---

Request token URL	https://api.twitter.com/oauth/request_token
-------------------	---

Authorize URL	https://api.twitter.com/oauth/authorize
---------------	---

Access token URL	https://api.twitter.com/oauth/access_token
------------------	---

Application actions

[Delete application](#)

Application settings

Keep the "API secret" a secret. This key should never be human-readable in your application.

API key	4v8nlz6Jdlp7P3HgkA39hzoU2
API secret	lM0GBz1gwKkr5KuywnUbjnWVzXY1VV2pY9uEqhtZ2Oz1Qkzdu5B
Access level	Read-only (modify app permissions)
Owner	KrasimirTsonev
Owner ID	130462642

Application actions

[Regenerate API keys](#)[Change App Permissions](#)

Your access token

You haven't authorized this application for your own account yet.

By creating your access token here, you will have everything you need to make API calls right away. The access token generated will be assigned your application's current permission level.

Token actions

[Create my access token](#)

Your access token

This access token can be used to make API requests on your own account's behalf. Do not share your access token secret with anyone.

Access token	130462642-7M3dow5fB0wDTN0bzn7KdiGo2EJBask6gDkckIEi
Access token secret	16VIHNzfwcjtC6OkAXkvxuPRCerjMAINoyxGs0sPh3mDd
Access level	Read-only
Owner	KrasimirTsonev
Owner ID	130462642

Token actions

[Regenerate my access token](#)[Revoke token access](#)

Social feed

type a Twitter handle

Get Tweets

Social feed

Tweets of @KrasimirTsonev:

Most of you are familiar with the virtues of a programmer. There are three, of course: laziness, impatience, and hubris. Larry Wall

To all devs out there <http://t.co/h12Qtbps08> via @KrasimirTsonev

RT @GulpWeekly: Techy - A flat file CMS based on #GulpJS and AbsurdJS. <http://t.co/xrVbh6TxwO> by @KrasimirTsonev

@TheLoneCuber @TryGhost I'm not sure, because I didn't use Ghost so far. It's however a little bit different. There is no node server running.

AbsurdJS - Awwwards Nominee - Awwwards <http://t.co/fUak1ILNcu>

@codefrontio conference is around the corner <http://t.co/NWxNKIATuS> #Frontend #JavaScript

RT @stockholmux: DadaJS a framework and extension for AbsurdJS @KrasimirTsonev <https://t.co/ku3XqJZtx>

#AbsurdJS has its own IRC freenode channel - #absurdjs

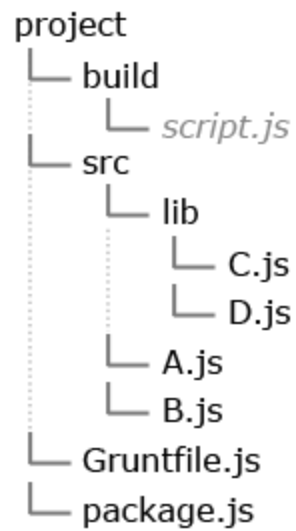
@gvinter I guess that reddit and <http://t.co/sVKw8r2GMg> are good places for bringing subscribers, but it's a difficult thing overall

I'm like Batman. I have double live. During daytime I code for clients. During the night I work on open source projects.

[back](#)

 View Tree	Route Name	Route	Controller	Template	URL
 Routes	application	ApplicationRoute	ApplicationController	application	
 Data	loading	LoadingRoute	LoadingController	loading	/loading
	error	ErrorRoute	ErrorController	error	/_unused_dummy
	social-feed	SocialFeedRoute	SocialFeedController	social-feed	
	social-feed.loading	SocialFeedLoadingRoute	SocialFeedLoadingController	social-feed/loading	/loading
	social-feed.error	SocialFeedErrorRoute	SocialFeedErrorController	social-feed/error	/_unused_dummy
	social-feed.tweets	SocialFeedTweetsRoute	SocialFeedTweetsController	social-feed/tweets	/tweets/:handler
	social-feed.index	SocialFeedIndexRoute	SocialFeedIndexController	social-feed/index	/

Chapter 8: Developing Web App Workflow with Grunt and Gulp



```
$ grunt
Running "concat:javascript" (concat) task
File "build/scripts.js" created.

Done, without errors.
```

```
[master +10 ~3 -0 !] $ grunt
Running "concat:javascript" (concat) task
File "build/scripts.js" created.

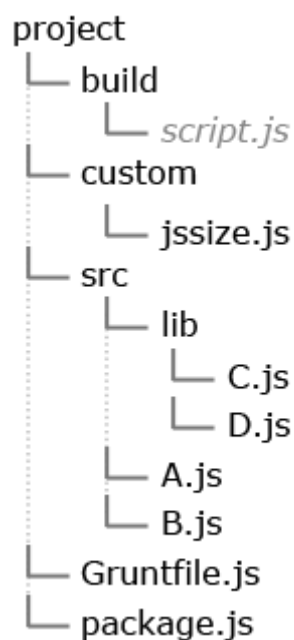
Running "uglify:javascript" (uglify) task
File build/scripts.min.js created.

Running "watch" task
Waiting...OK
>> File "src\A.js" changed.

Running "concat:javascript" (concat) task
File "build/scripts.js" created.

Running "uglify:javascript" (uglify) task
File build/scripts.min.js created.

Done, without errors.
Completed in 0.638s at Thu Feb 13 2014 23:07:32 GMT+0200 (FLE Standard Time) - W
aiting...
```



```
project
├── build
│   └── script.js
├── css
│   └── styles.css
├── custom
│   └── jssize.js
├── img
│   ├── A.png
│   ├── B.png
│   └── C.png
├── src
│   ├── lib
│   │   ├── C.js
│   │   └── D.js
│   ├── A.js
│   └── B.js
├── Gruntfile.js
└── package.js
```

```
Running "concat:javascript" (concat) task
File "build/scripts.js" created.
```

```
Running "uglify:javascript" (uglify) task
File build/scripts.min.js created.
```

```
Running "jssize:javascript" (jssize) task
```

```
Running "generate-manifest:manifest" (generate-manifest) task
```

```
Running "watch" task
Waiting...
```



APIs

Classes

Modules

[A](#)

A Class

Defined in: `src/A.js:1`

This is the description for my class.

Index

Methods

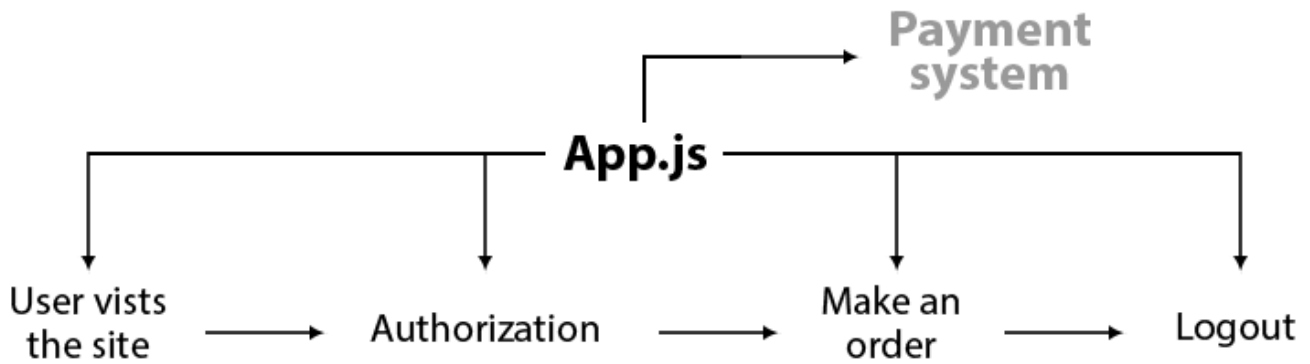
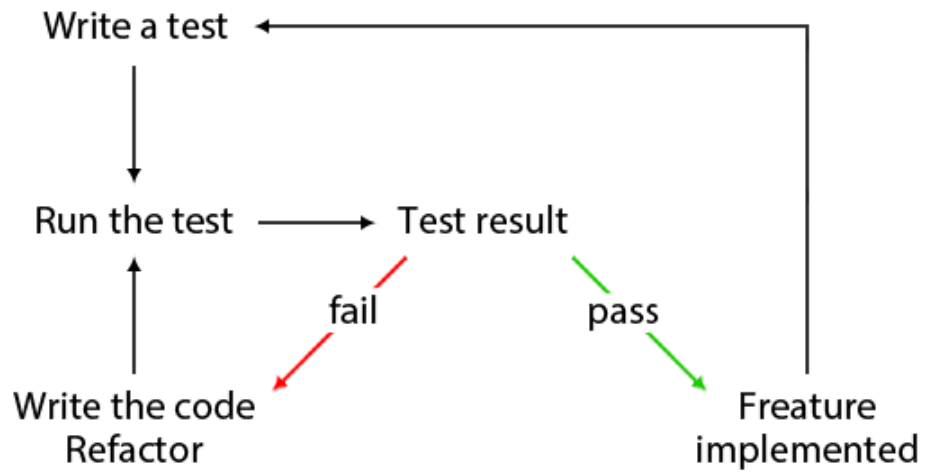
Item Index

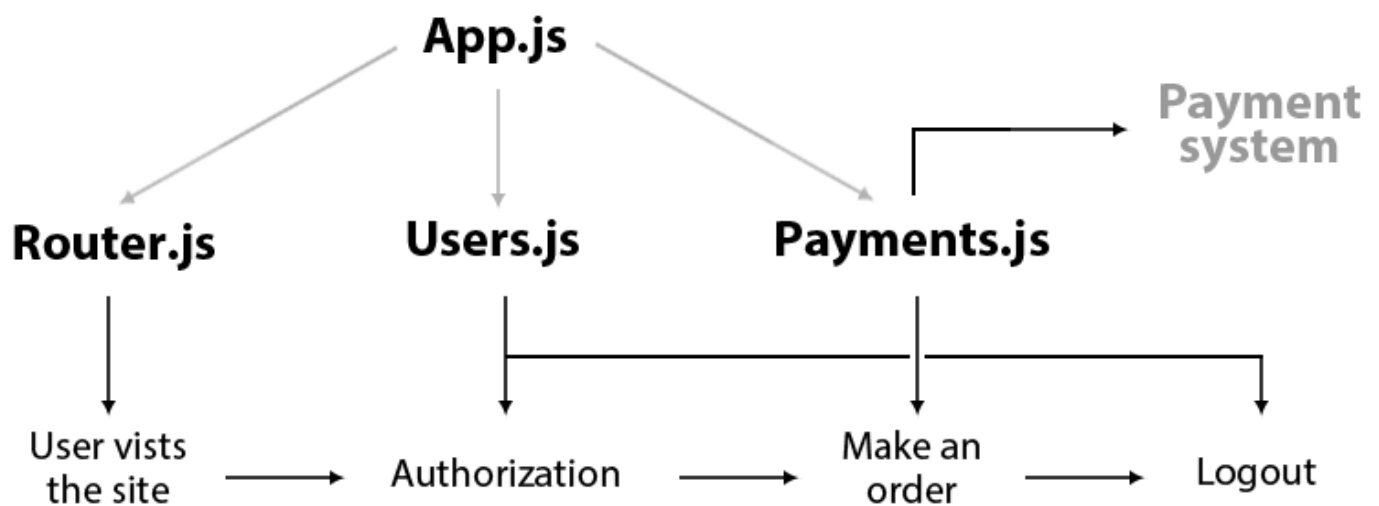
Methods

[method](#)

```
[gulp] Using gulpfile D:\work\KrasimirTsonev\private\nodejs-book\Chapters\08. A modern web app workflow with GruntJS and Gulp\code\gulp\gulpfile.js
[gulp] Starting 'js'...
[gulp] Finished 'js' after 6.23 ms
[gulp] Starting 'watchers'...
[gulp] Finished 'watchers' after 9.26 ms
[gulp] Starting 'default'...
[gulp] Finished 'default' after 6.84 µs
```

Chapter 9: Automate Your Testing with Node.js





```

project
├── tests
│   └── test.spec.js
├── app.js
└── file.txt
  
```

```

Finished in 0.02 seconds
1 test, 1 assertion, 0 failures, 0 skipped
  
```

Failures:

```

1) Testing the reading of the file's content. should read the file
   Message:
     TypeError: Object #<Object> has no method 'read'
   Stacktrace:
     TypeError: Object #<Object> has no method 'read'
  
```

Failures:

1) Testing the reading of the file's content. should read the file

Message:

Expected undefined to be 'The quick brown fox jumps over the lazy dog.'

Stacktrace:

Error: Expected undefined to be 'The quick brown fox jumps over the lazy dog.'

Finished in 0.007 seconds

2 tests, 2 assertions, 0 failures, 0 skipped

Finished in 0.02 seconds

3 tests, 3 assertions, 0 failures, 0 skipped

Failures:

1) Testing the whole module read the file and search for 'lazy'

Message:

TypeError: Cannot call method 'indexOf' of undefined

Stacktrace:

TypeError: Cannot call method 'indexOf' of undefined

Finished in 0.01 seconds

4 tests, 4 assertions, 0 failures, 0 skipped

0 passing (7ms)

4 failing

1) Testing the reading of the file's content. should create an instance of app.js:

ReferenceError: expect is not defined

4 passing (8ms)

```
$ mocha .\tests -R dot
```

```
.....
```

```
4 passing (7ms)
```

```
Testing the reading of the file's content.
```

```
✓ should create an instance of app.js
```

```
✓ should read the file
```

```
Testing if the file contains certain words
```

```
✓ should contains 'brown'
```

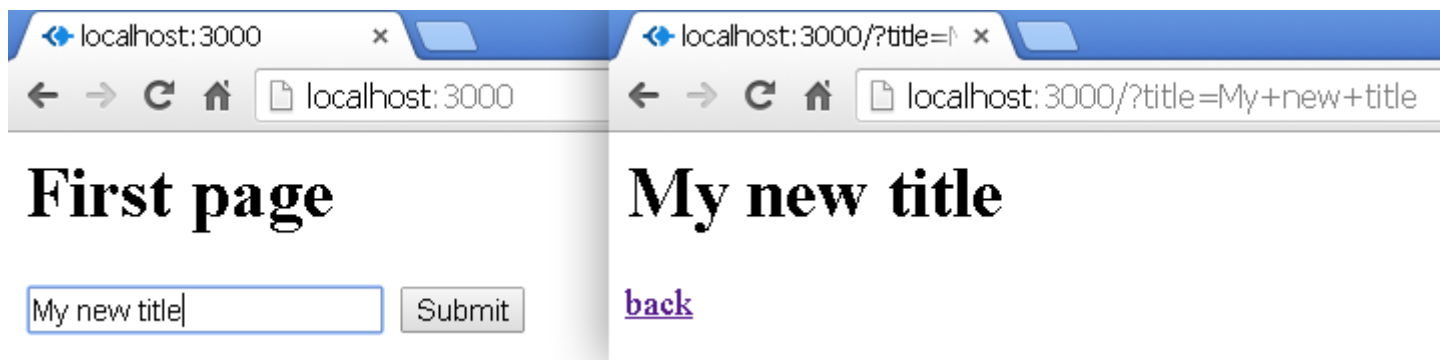
```
Testing the whole module
```

```
✓ read the file and search for 'lazy'
```

```
4 passing (10ms)
```

```
-----  
.....  
-----
```

```
4 passing (10ms)
```




```
project
├── tests
│   └── phantom.js
├── app.js
└── framework.js
```

```
make a simple test
! Expect '1' to be '0'.
! Expect 'undefined' to be defined
```

```
$ phantomjs .\tests\phantom.js
phantom: load finished
```

```
$ phantomjs .\tests\phantom.js
phantom: load finished
    should open the first page
```

```
$ phantomjs .\tests\phantom.js
phantom: load finished
    should open the first page
phantom: load finished
    should land on the second page
phantom: load finished
    should return to the home page
phantom: browser terminated
```

```
project
├── tests
│   └── dalek.js
├── app.js
└── package.json
```

Running tests

Running Browser: Google Chrome

OS: Windows NT 6.1 x86_64

Browser Version: 33.0.1750.117

RUNNING TEST - "should interact with the application"

> OPEN http://127.0.0.1:3000

* TEXT The title is "First page"

> TYPE input[type="text"]

> SUBMIT form

* TEXT The title is "DalekJS test"

> CLICK a

* TEXT We are again on the home page

* 3 Assertions run

* TEST - "should interact with the application" SUCCEEDED

3/3 assertions passed. Elapsed Time: 1.53 sec

Chapter 10: Writing Flexible and Modular CSS

Your username

Your password

login

forgot

Your username

Your password

login

forgot

Your username

Your password

login

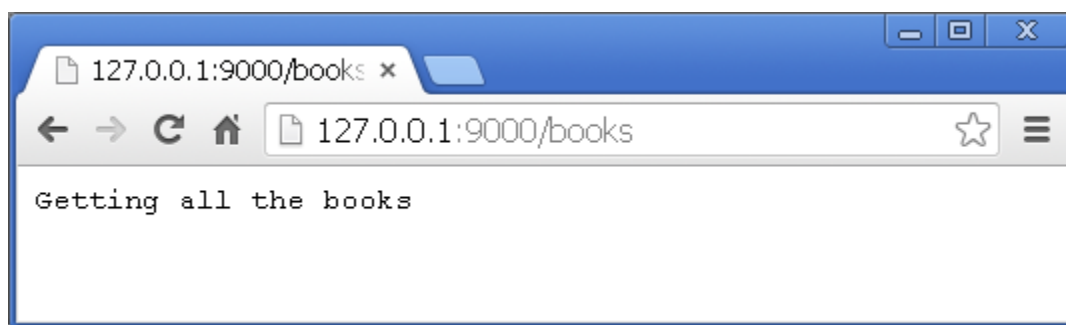
forgot

Chapter 11: Writing a REST API

```
{ get: {},  
  post: {},  
  path: '/books',  
  method: 'GET',  
  match: [ '/books', undefined, index: 0, input: '/books' ] }
```

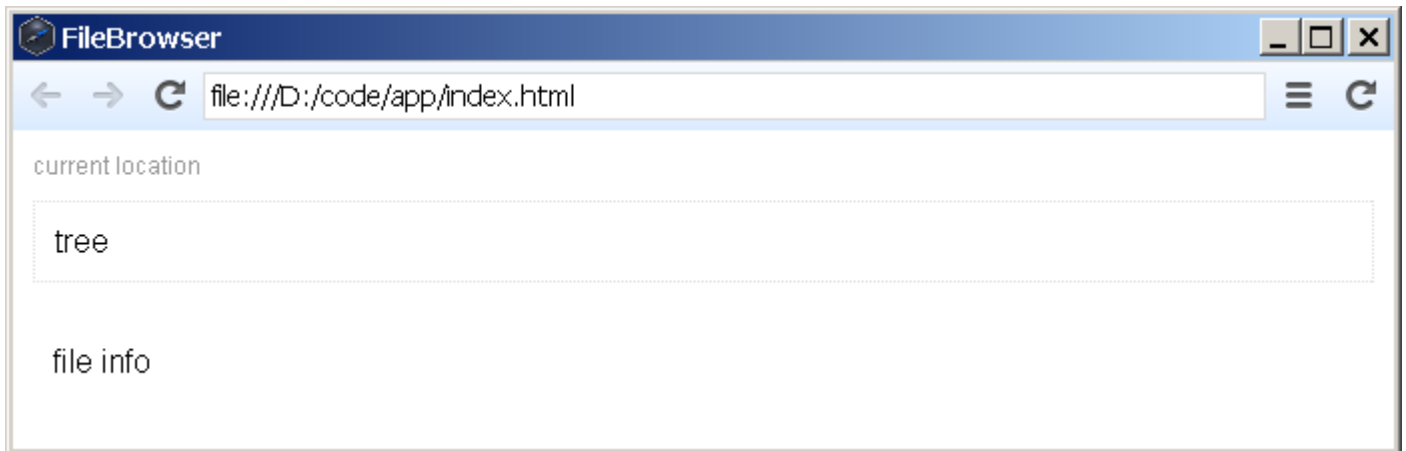
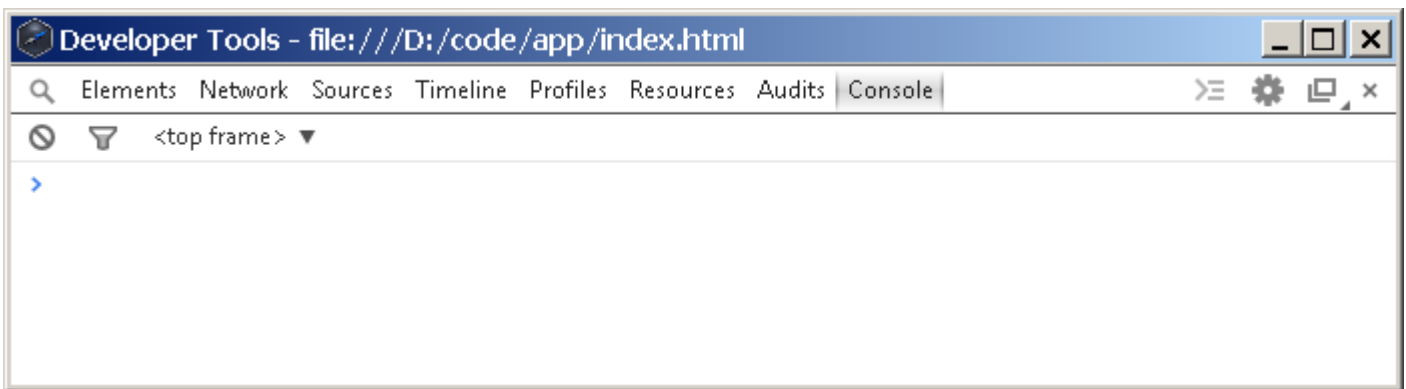
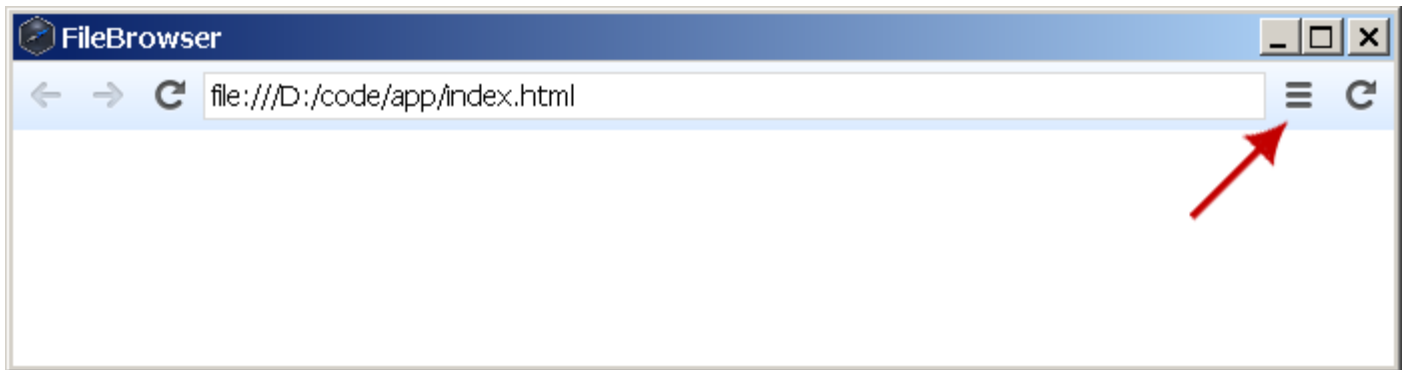
```
{ get: { notification: 'no' },  
  post: { name: 'Node.js blueprints', author: 'Krasimir Tsonev' },  
  path: '/book',  
  method: 'POST',  
  match: [ '/book', undefined, index: 0, input: '/book' ] }
```

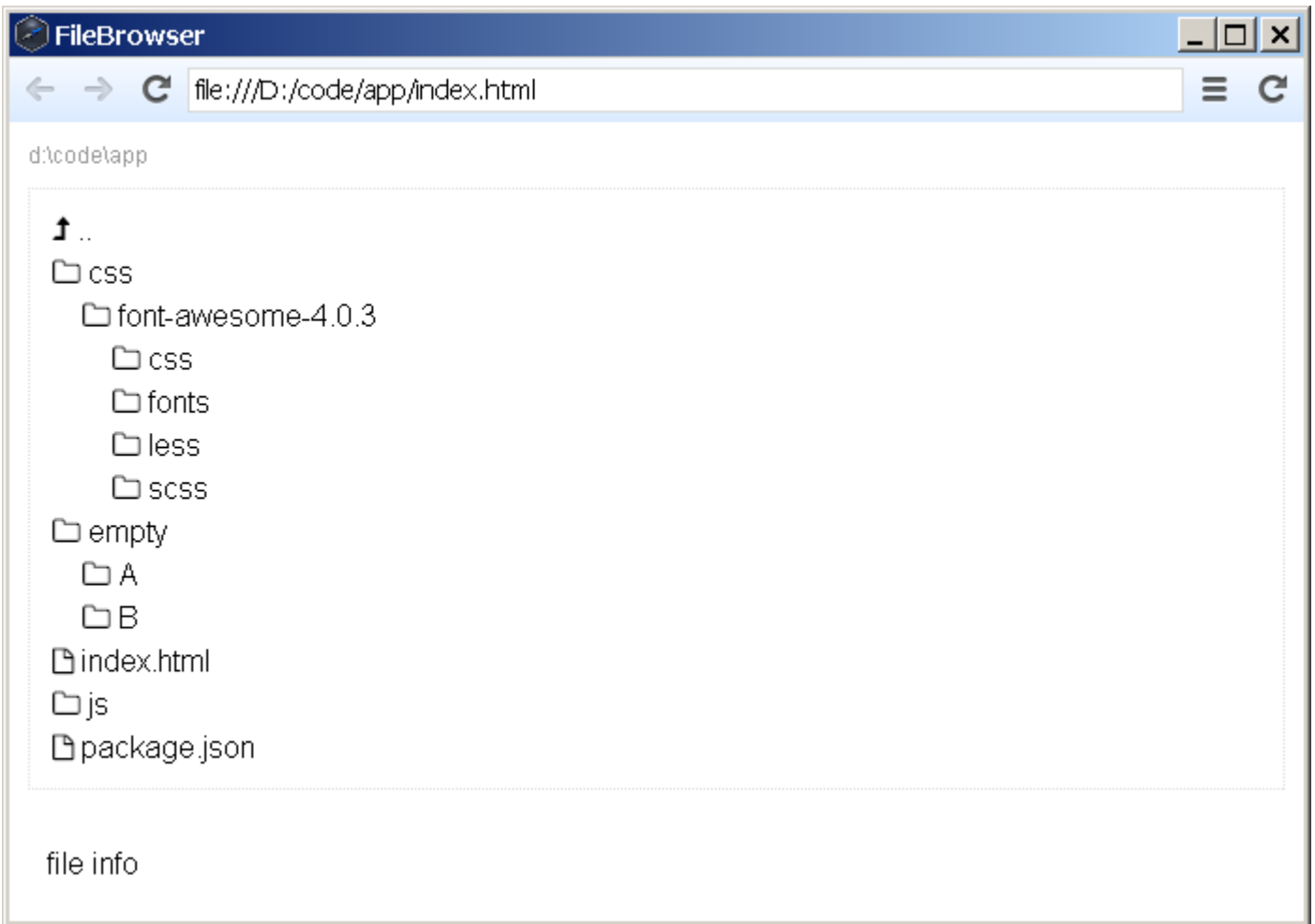
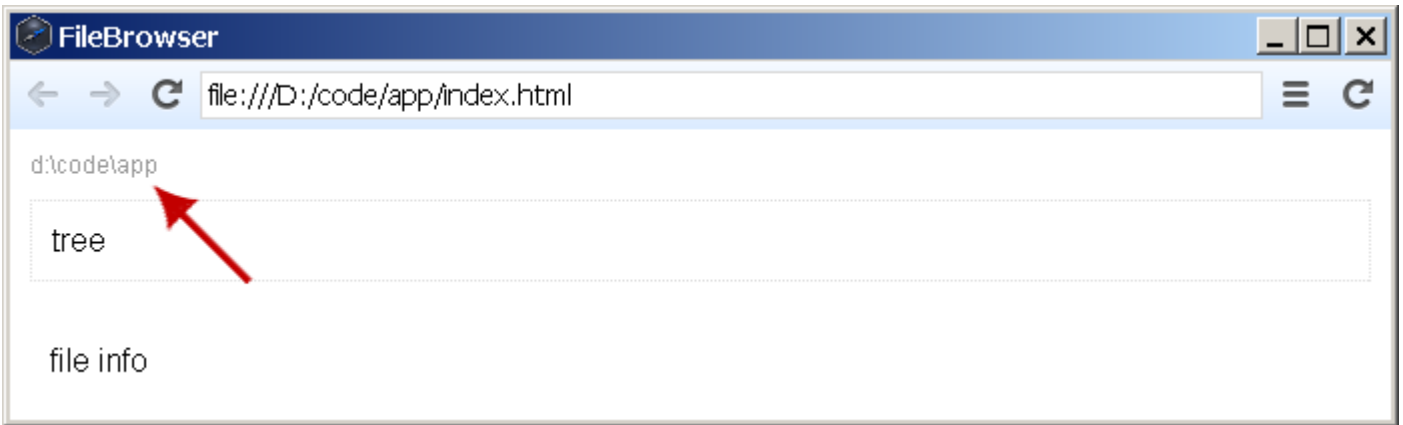
```
{ get: {},  
  post: {},  
  path: '/book/523/edit',  
  method: 'GET',  
  match:  
    [ '/book/523/edit',  
      '523',  
      'edit',  
      index: 0,  
      input: '/book/523/edit' ] }
```



```
{  
  "name": "Test Book",  
  "author": "Test Author",  
  "ID": "90d426331f82e744aad89d5ba6678656e846a3c",  
  "_id": ObjectId("533c6e62ccb774d41f4f52f2")  
}
```

Chapter 12: Developing Desktop Apps with Node.js





d:\code\app

- ↑ ..
- css
 - font-awesome-4.0.3
 - css
 - fonts
 - less
 - scss
- empty
 - A
 - B
- index.html
- js
- package.json

package.json

path: d:\code\app

size: 125 bytes

last modified: Sat Apr 12 2014 13:18:15 GMT+0300 (FLE Daylight Time)

created: Sun Apr 13 2014 17:11:48 GMT+0300 (FLE Daylight Time)

 **Copy**

 **Move**

 **Delete**

autumn.png

path: d:\code\app

size: 1015606 bytes

last modified: Sun Apr 13 2014 17:36:07 GMT+0300 (FLE Daylight Time)

created: Sun Apr 13 2014 22:51:45 GMT+0300 (FLE Daylight Time)

 View image

 Copy

 Move

 Delete



d:\code\app

- ↑ ..
- 📄 .gitignore
- 📄 autumn.png
- 📁 css
 - 📁 font-awesome-4.0.3
 - 📁 css
 - 📁 fonts
 - 📁 less
 - 📁 scss
- 📁 empty
 - 📁 A
 - 📁 B
- 📄 image.html
- 📄 index.html
- 📁 js
- 📁 node_modules
 - 📁 .bin
 - 📁 image-size
 - 📁 bin
 - 📁 lib

autumn.png


path: d:\code\app

size: 1015606 bytes

last modified: Sun Apr 13 2014 17:36:07 GMT+0300 (FLE Daylight Time)

created: Mon Apr 14 2014 23:03:47 GMT+0300 (FLE Daylight Time)

 **View image**

 **Copy**

 **Move**

 **Delete**