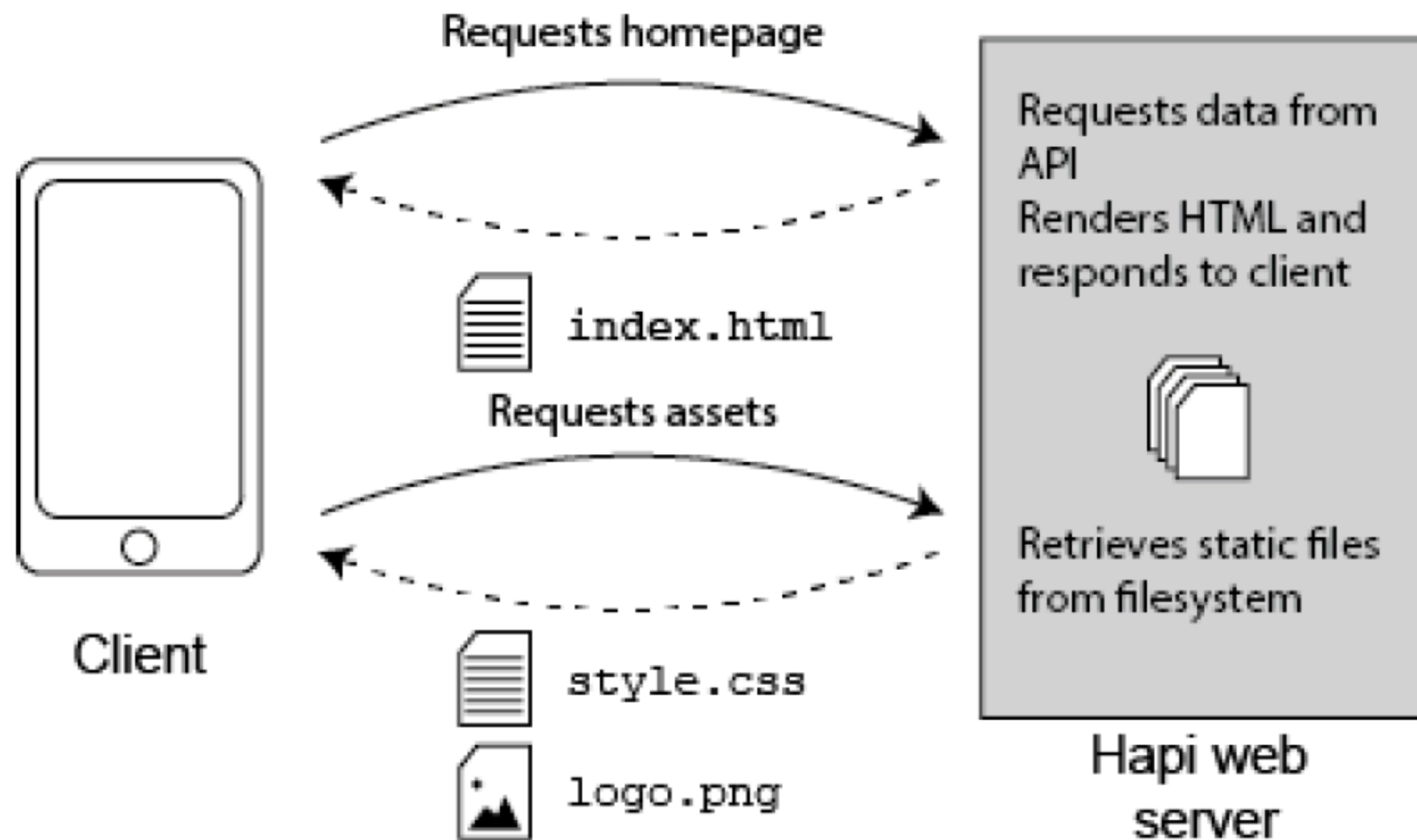


Views

Application Structure

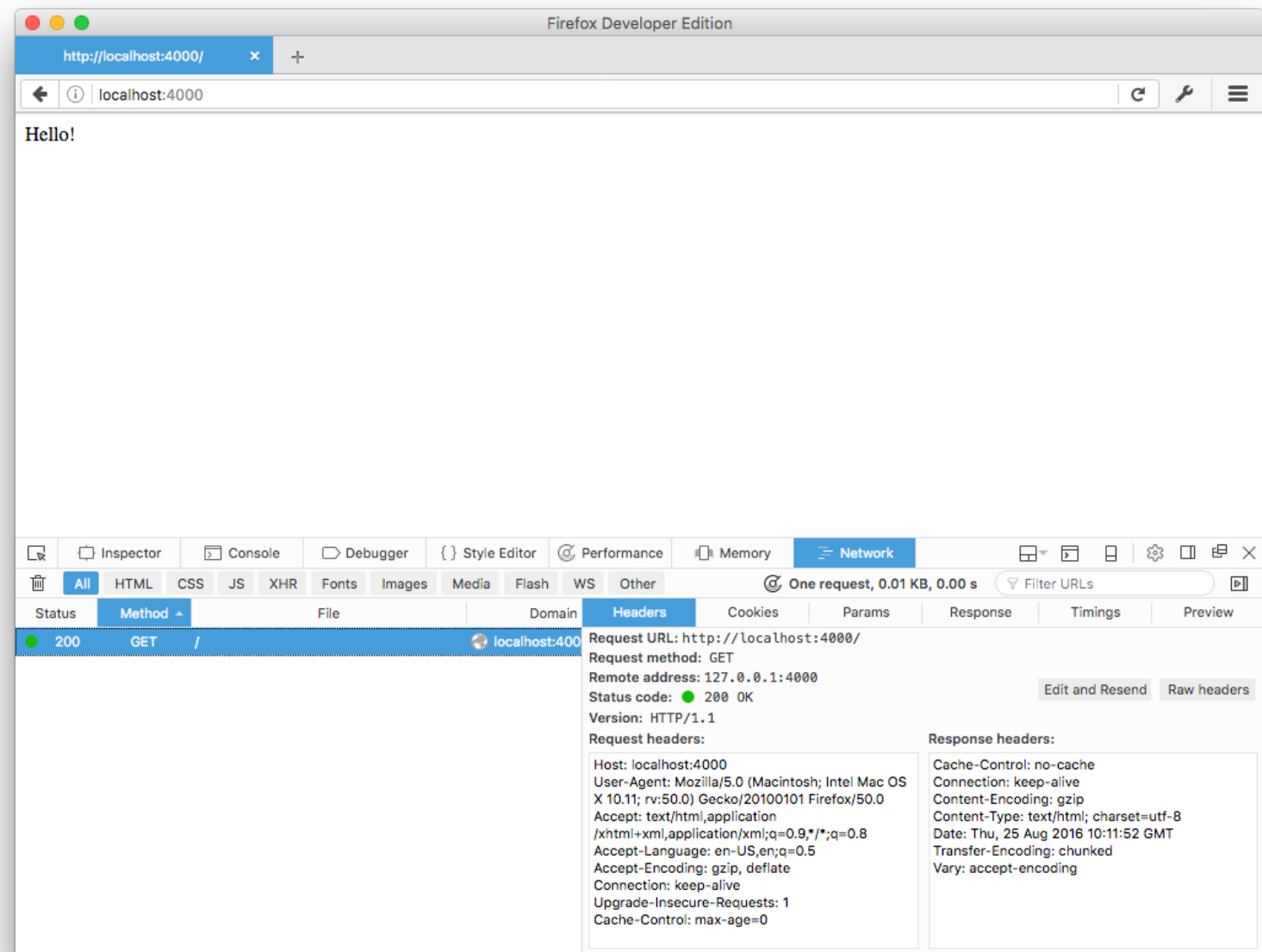


reply

- reply responds to the browser with a simple string.

controller.js

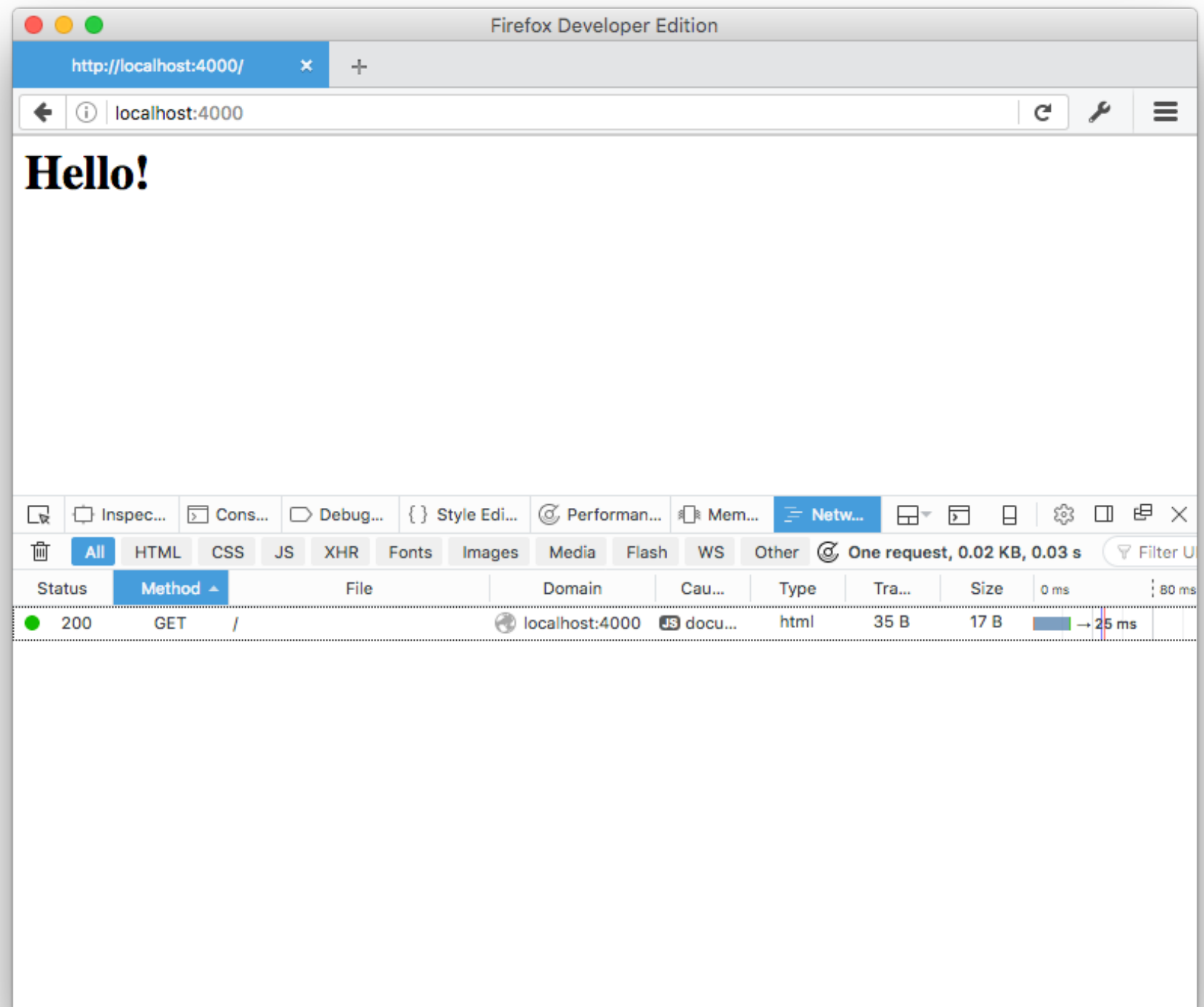
```
exports.index = {  
  
  handler: function (request, reply) {  
    reply('Hello!');  
  }  
  
};
```



reply

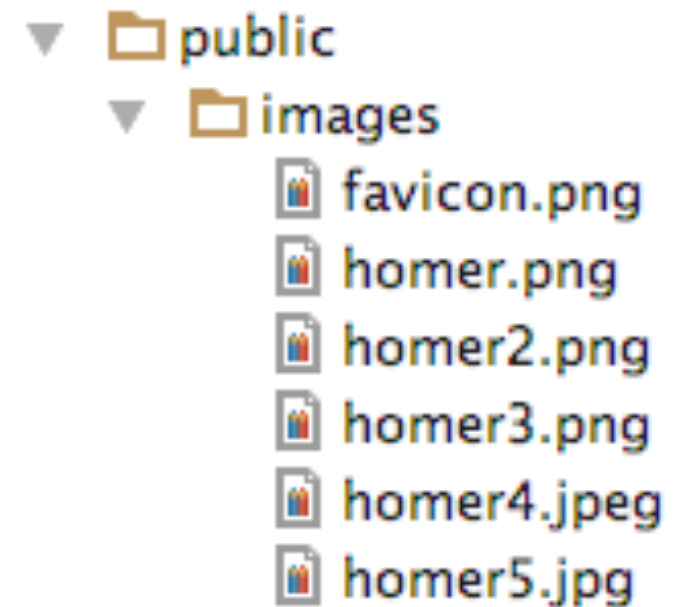
- In order to render web pages we could pass html content
- This would become very unwieldy and unmaintainable

```
exports.index = {  
  handler: function (request, reply) {  
    reply('<h1> Hello! </h1>');  
  }  
};
```



Static Assets

- Additionally, serving folders of static content (images, css etc..) might require an extensive range of routes + handlers



inert plugin: <https://github.com/hapijs/inert>

- This plugin provides simple file serving features for hapi

inert

Static file and directory handlers plugin for hapi.js.

build **passing**

Lead Maintainer - [Gil Pedersen](#)

inert provides new **handler** methods for serving static files and directories, as well as decorating the **reply** interface with a **file** method for serving file based resources.

Features

- Files are served with cache friendly **last-modified** and **etag** headers.
- Generated file listings and custom indexes.
- Precompressed file support for **content-encoding: gzip** responses.
- File attachment support using **content-disposition** header.

Index

- [Examples](#)
 - [Static file server](#)
 - [Serving a single file](#)
 - [Customized file response](#)
- [Usage](#)
 - [Registration options](#)
 - `reply.file(path, [options])`
 - [The **file** handler](#)
 - [The **directory** handler](#)

<https://github.com/hapijs/inert>

Restructure the Application Project Structure

- As we are about to grow a more substantial projects, we take care to lay out a sustainable folder structure.

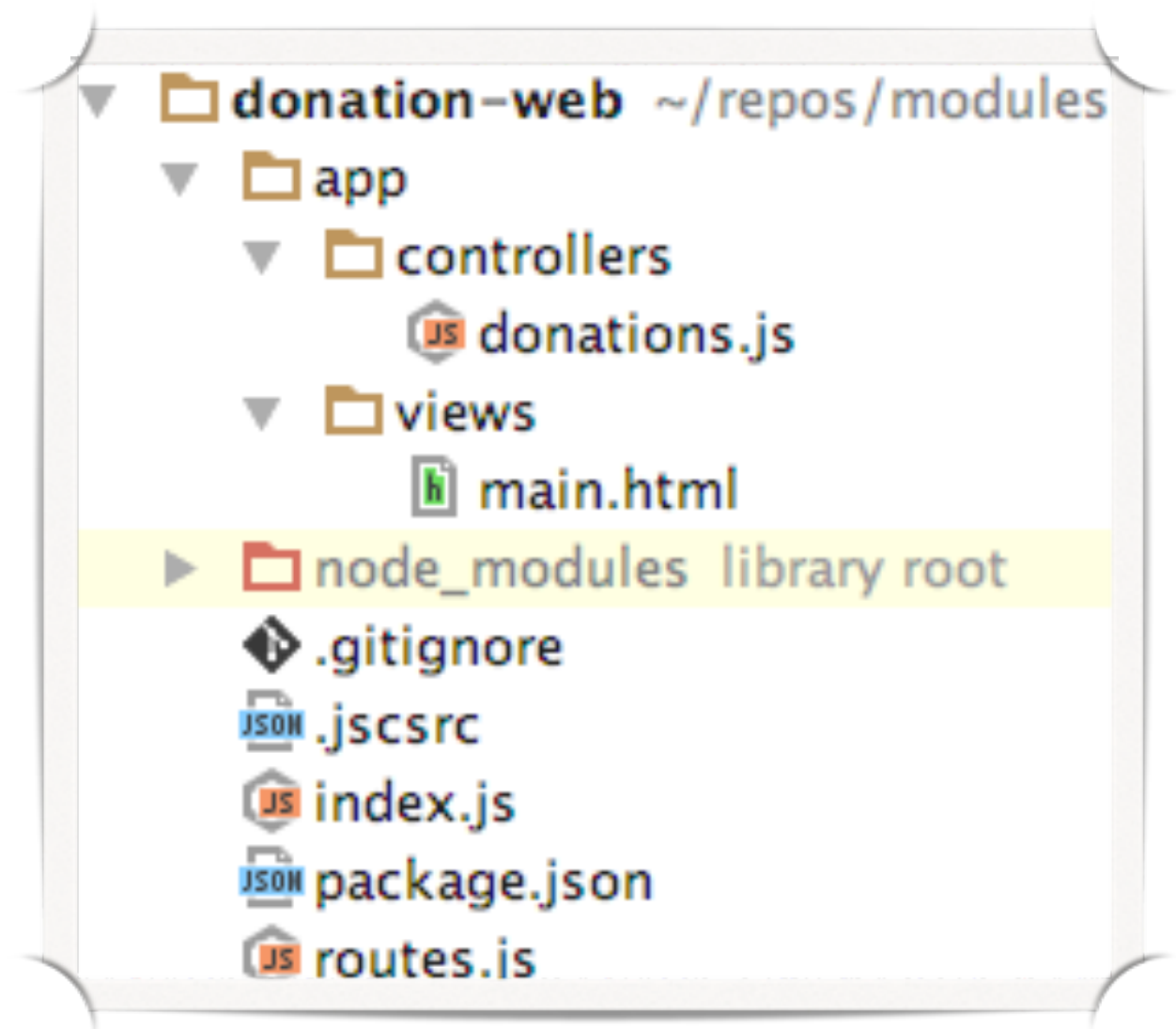
app contents bulk of application sources

controllers will contain handlers

views will contain html templates

index.js is the application entry point

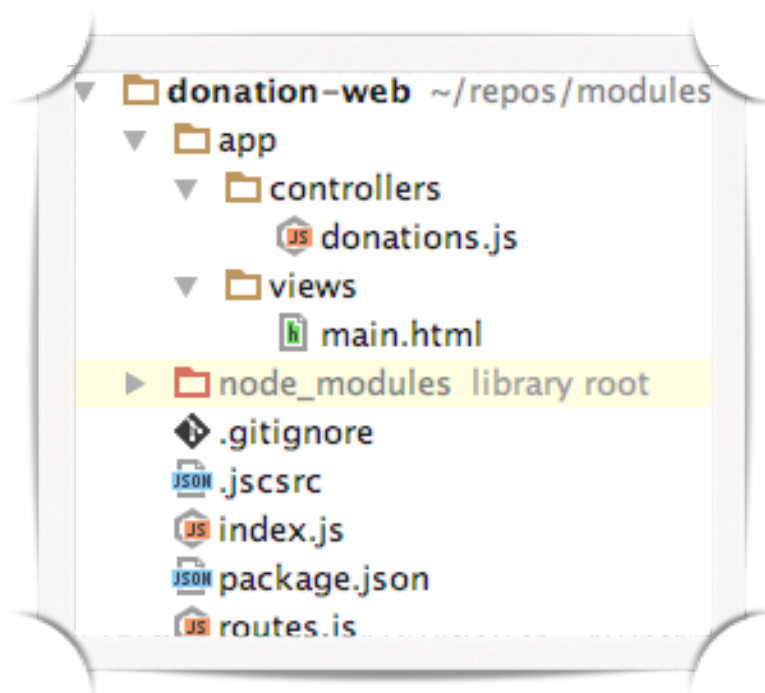
routes.js define all application routes



Main Application Entrypoint

index.js

- Plugin must be registered, then if successful:
 - Routes included
 - Server started



```
'use strict';

const Hapi = require('hapi');

var server = new Hapi.Server();
server.connection({ port: process.env.PORT || 4000 });

server.register(require('inert'), err => {

  if (err) {
    throw err;
  }

  server.route(require('./routes'));
  server.start((err) => {
    if (err) {
      throw err;
    }

    console.log('Server listening at:', server.info.uri);
  });
});
```

\$ npm install inert -save

Routes + Controller

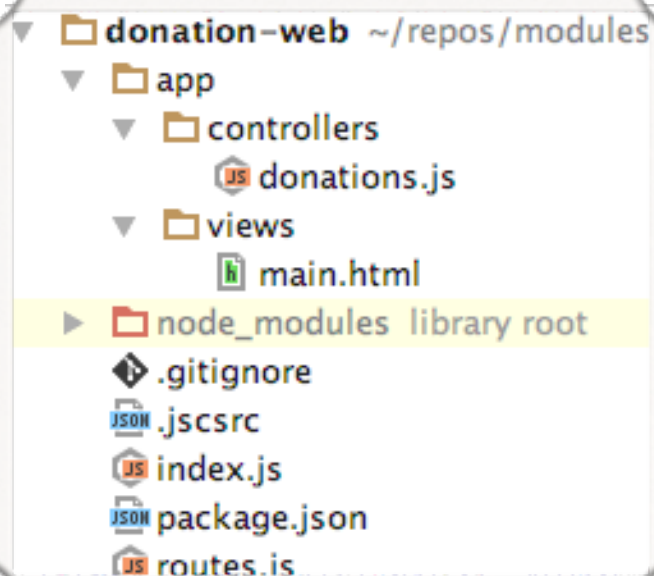
- Route recognises a single pattern: '/'.
- The handler replies with a single file - which will be rendered in the client browser

routes.js

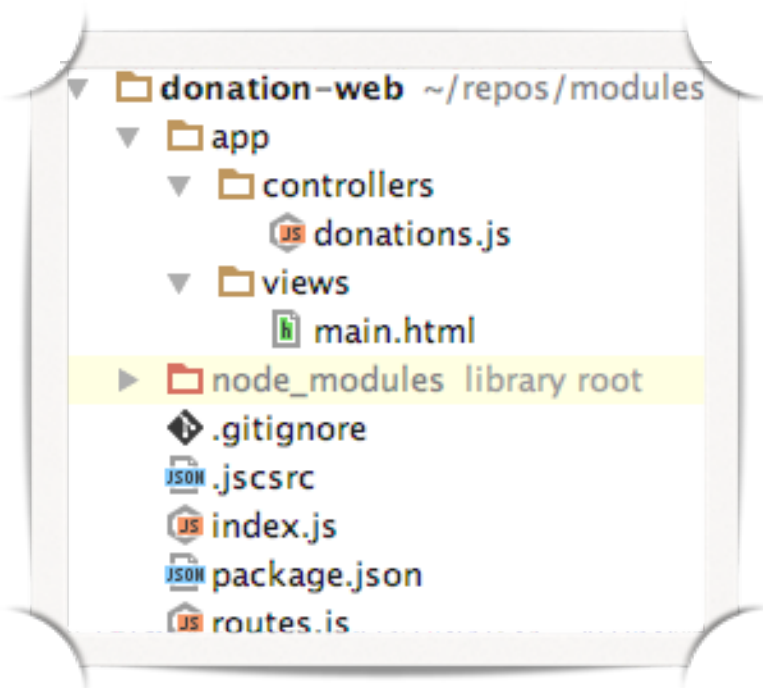
```
const Donations = require('./app/controllers/donations');  
  
module.exports = [  
  { method: 'GET', path: '/', config: Donations.home },  
];
```

app/controllers/donation.js

```
'use strict';  
  
exports.home = {  
  handler: (request, reply) => {  
    reply.file('./app/views/main.html');  
  },  
};
```



```
<!DOCTYPE html>
<html>
  <head>
    <title>Donations</title>
    <meta charset="UTF-8">
    <script type="text/javascript" src="//cdnjs.cloudflare.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
    <script type="text/javascript" src="//cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.6/semantic.min.js"></script>
    <link rel="stylesheet" media="screen" href="//cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.1.6/semantic.min.css">
  </head>
  <body>
    <section class="ui container">
      <section class="ui stacked segment">
        <div class="ui grid">
          <aside class="six wide column">
            
          </aside>
          <article class="ten wide column">
            <header class="ui header"> Help Me Run Springfield</header>
            <p> Donate what you can now - No Bitcoins accepted! </p>
          </article>
        </div>
      </section>
    </section>
  </body>
</html>
```



- Simple, static web page.
- Loads Semantic UI Stylesheet from CDN.

Semantic UI

- Rich, themeable, attractive layouts & UI components

Unbelievable Breadth

Definitions aren't limited to just buttons on a page. Semantic's components allow several distinct types of definitions: elements, collections, views, modules and behaviors which cover the gamut of interface design.

[See Layout Examples >](#)

Menu

Inbox 1

Trash 1

Search mail...

Tab Tab

Inbox

Starred


Trash

Inbox

Starred

Trash

Card



Rachel Maddaw
Pundit

22 Friends Joined in 1998

Dropdown

Select Country

Filter Posts

Segment

Input

Search

http://mysite.com

Enter categories Add Tags

Checkbox

I enjoy having fun

Receive weekly poodle newsletter

Make my dog's profile public

Divider

A OR B

Feed

Mark added you as a friend

You added Lena to the group [Close Friends](#)

Eve just [posted on your page](#)

Accordion

Size

Small

Medium

Large

X-Large

Colors

Label

molly@thebears.com x 23 New

Dresses

Message

This site uses cookies

Looking for help?

Step

Shipping
Choose your shipping options

Billing
Enter billing information

Confirm Order

Examples to introduce components and their function

Theming
Examples of many common UI components, useful for testing custom themes.

Responsive
Patterns for adjusting display for different devices.

Grid
An introduction to using Semantic UI grids

Attached Content
Examples of content that can attach to other content

Bootstrap Migration
Examples of replacements for components found in Bootstrap

Pages

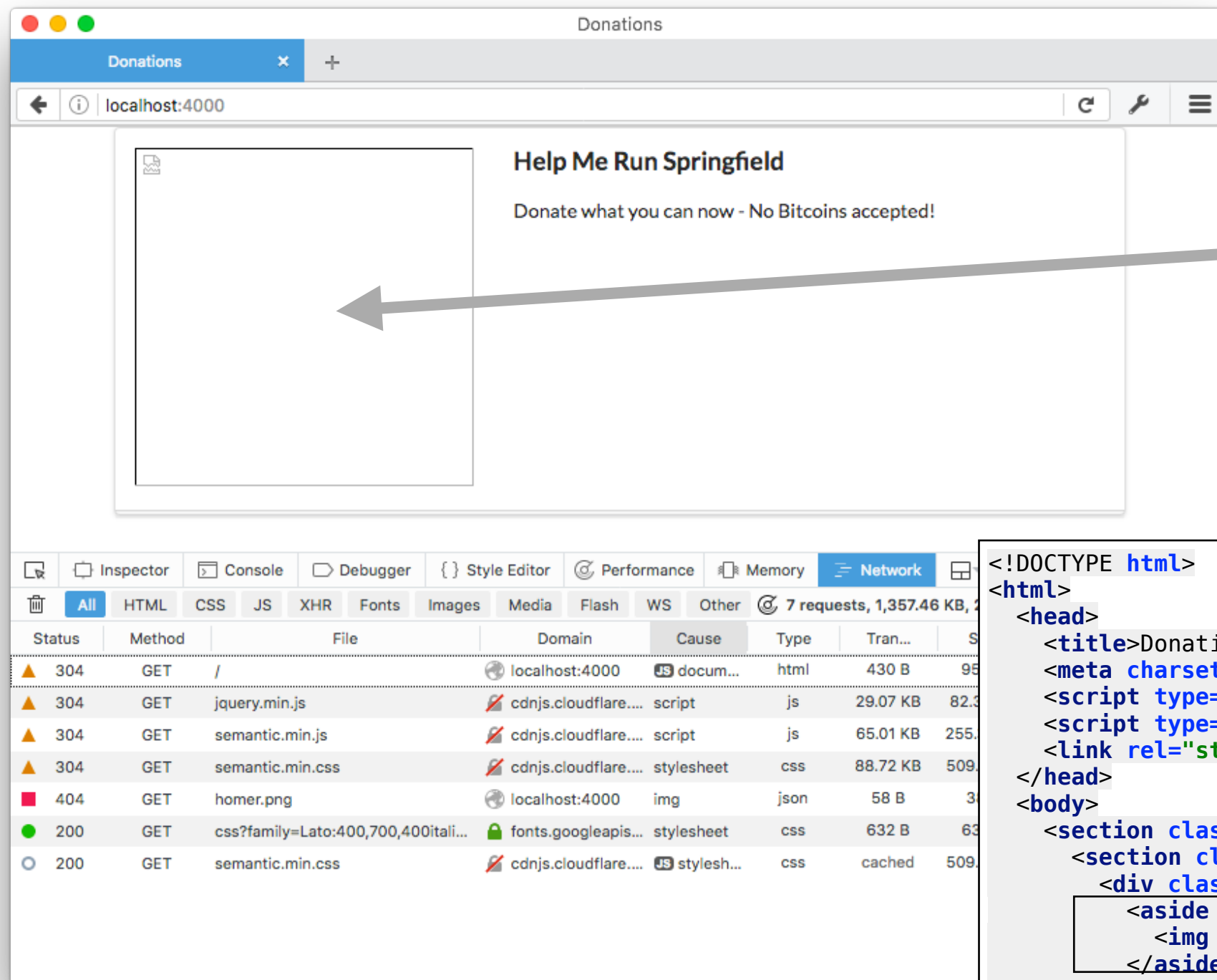
Starter page templates

Homepage
A simple, responsive homepage design with sidebar

Sticky Menus
Using visibility APIs to fix content after passing position in page

Fixed Menu
Using a fixed menu with page content

Login Form
A full-screen login form.



- Static resource not served

```
<!DOCTYPE html>
<html>
  <head>
    <title>Donations</title>
    <meta charset="UTF-8">
    <script type="text/javascript" src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
    <script type="text/javascript" src="//cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.2.8/semantic.min.js"></script>
    <link rel="stylesheet" media="screen" href="//cdnjs.cloudflare.com/ajax/libs/semantic-ui/2.2.8/semantic.min.css">
  </head>
  <body>
    <section class="ui container">
      <section class="ui stacked segment">
        <div class="ui grid">
          <aside class="six wide column">
            
          </aside>
          <article class="ten wide column">
            <header class="ui header"> Help Me Run Springfield</header>
            <p> Donate what you can now – No Bitcoins accepted! </p>
          </article>
        </div>
      </section>
    </section>
  </body>
</html>
```

routes.js

```
const Donations = require('./app/controllers/donations');
const Assets = require('./app/controllers/assets');

module.exports = [

  { method: 'GET', path: '/', config: Donations.home },

  {
    method: 'GET',
    path: '/{param*}',
    config: { auth: false },
    handler: Assets.servePublicDirectory,
  },

];
```

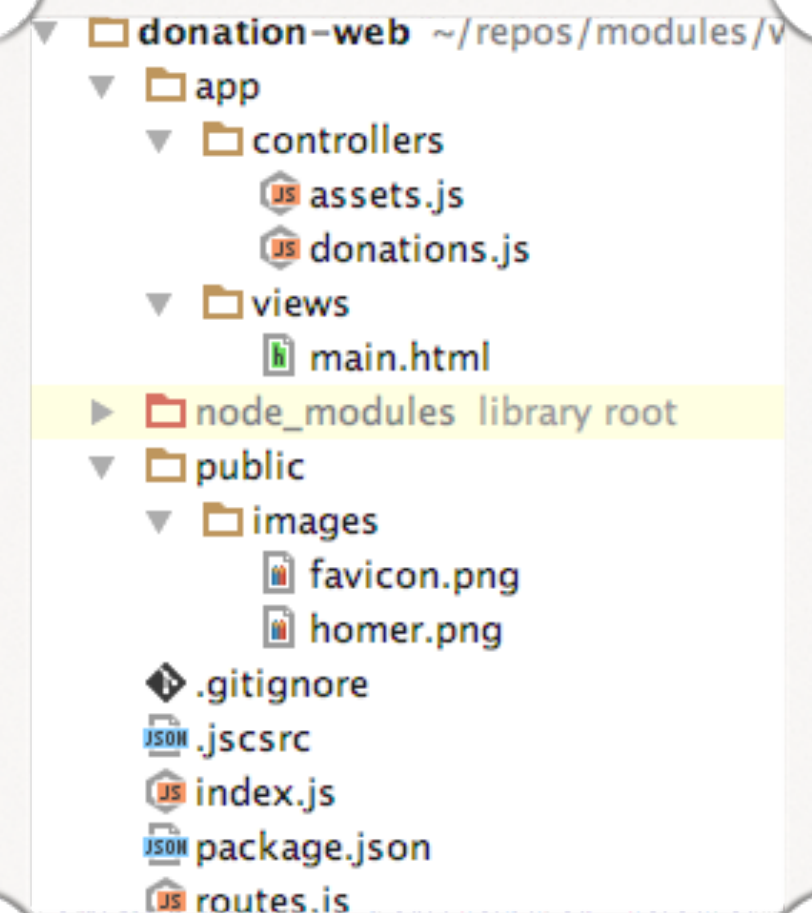
Static Assets

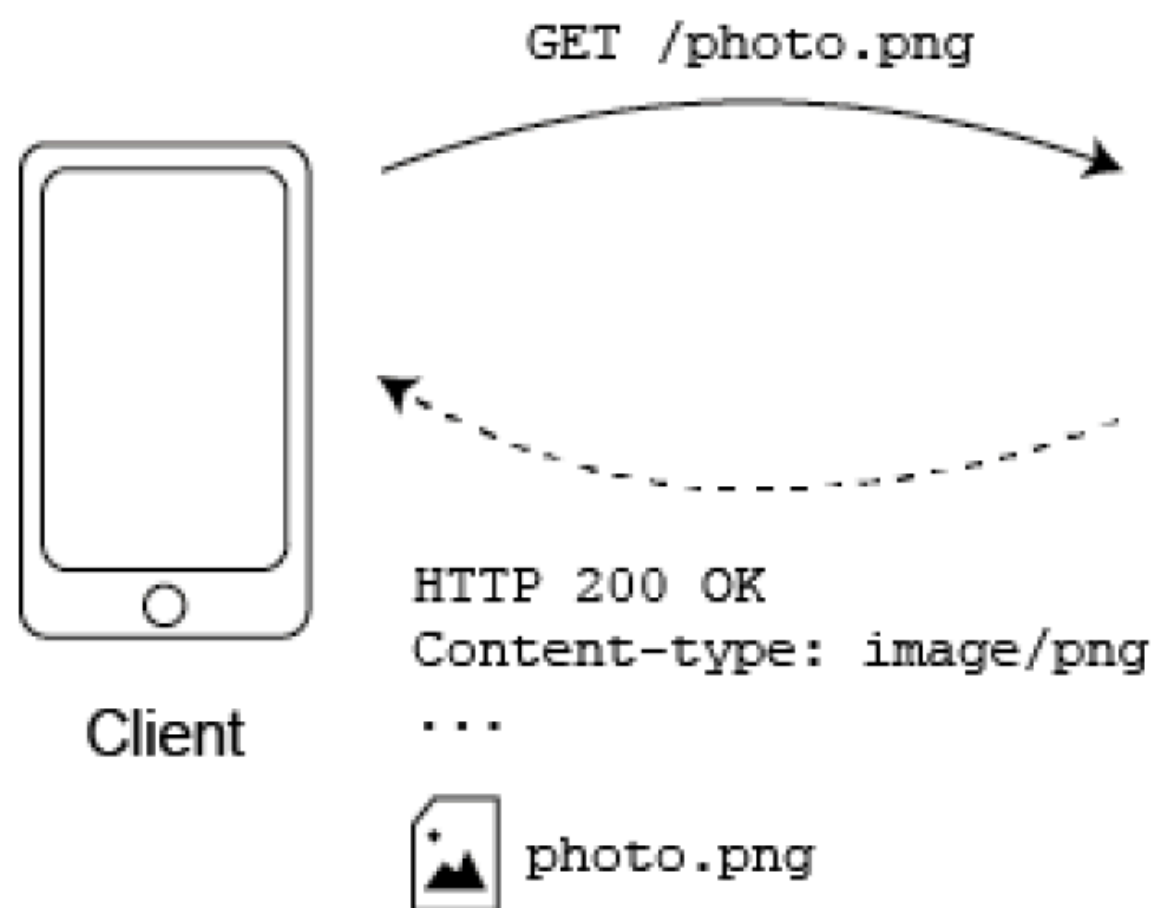
- additional route + handler

app/controllers/assets.js

```
'use strict';

exports.servePublicDirectory = {
  directory: {
    path: 'public',
  },
};
```





Route

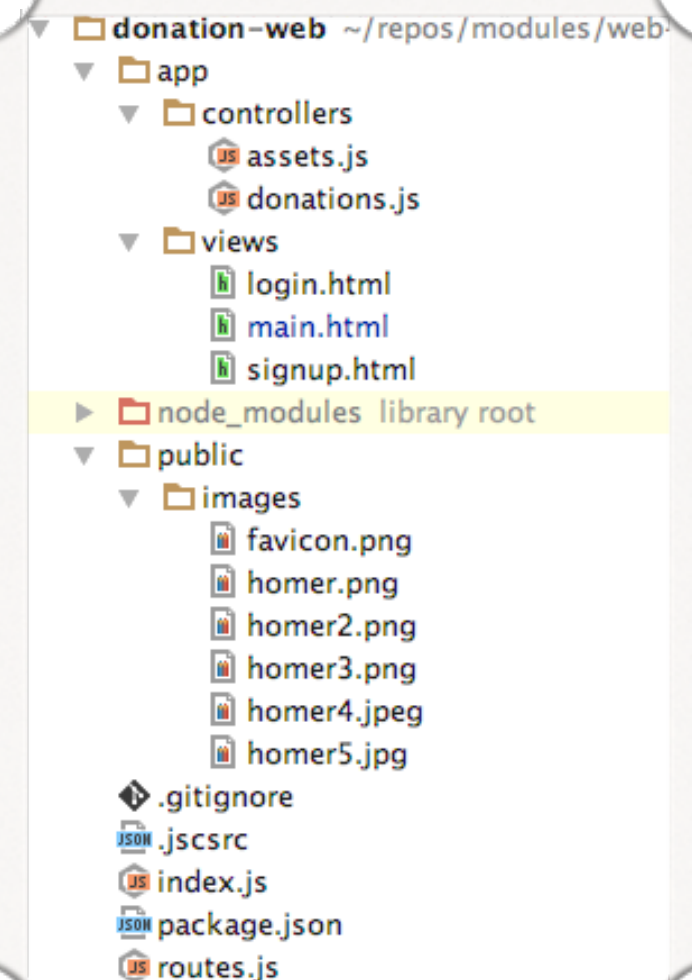
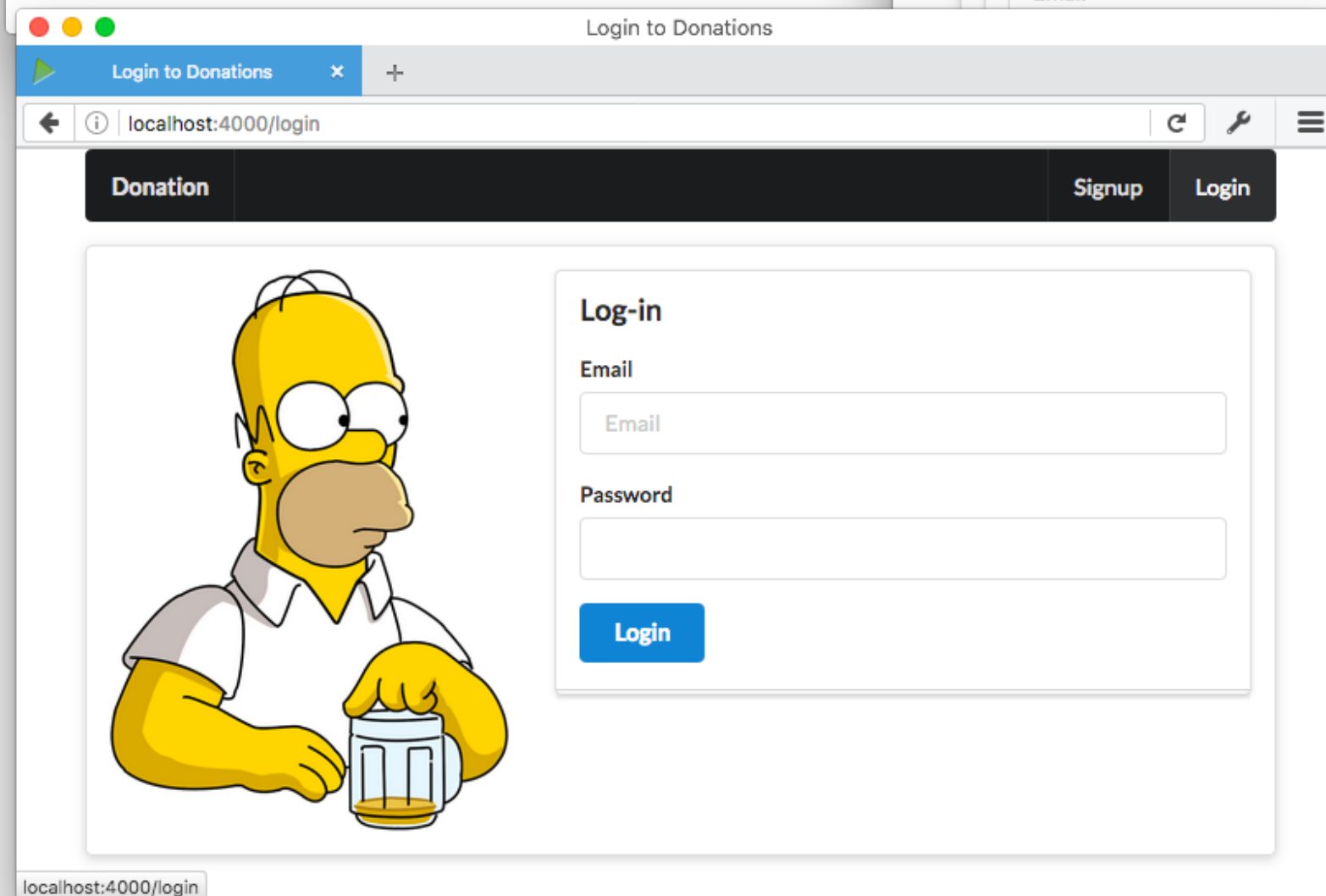
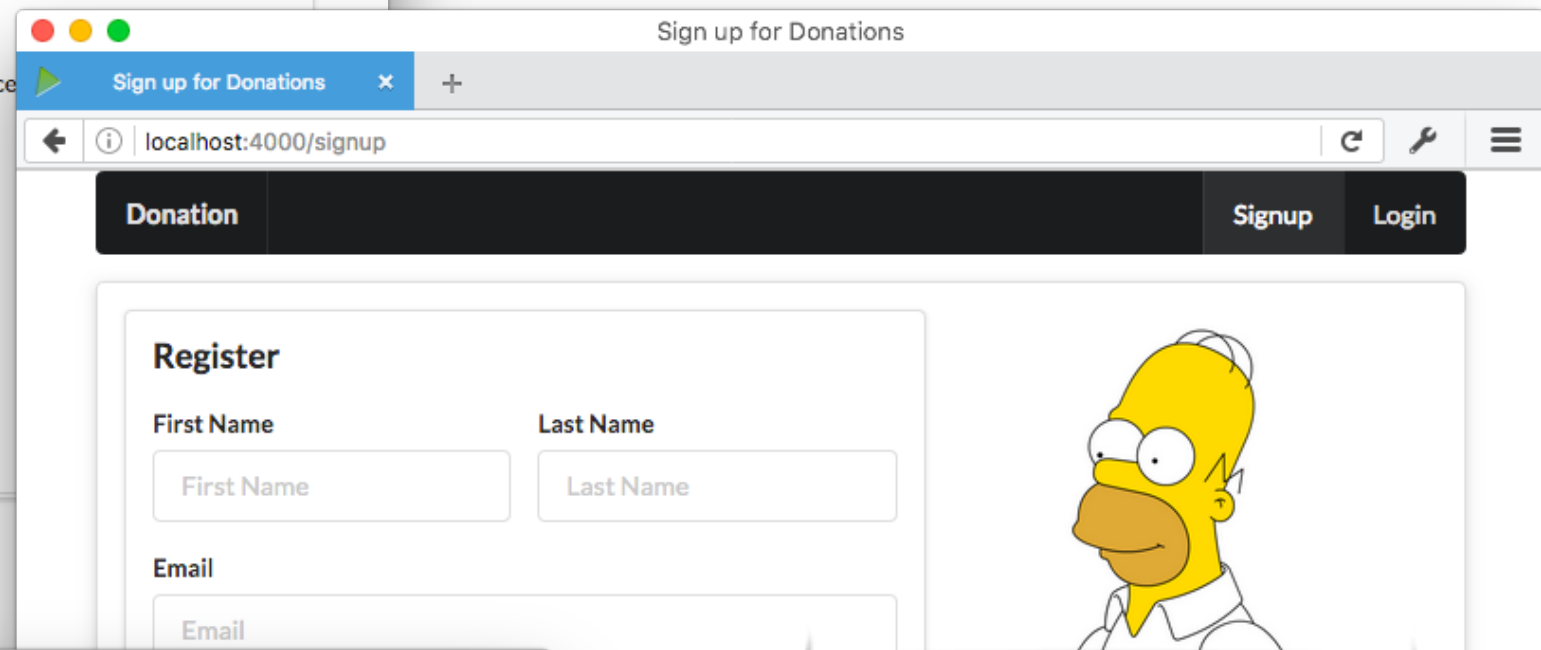
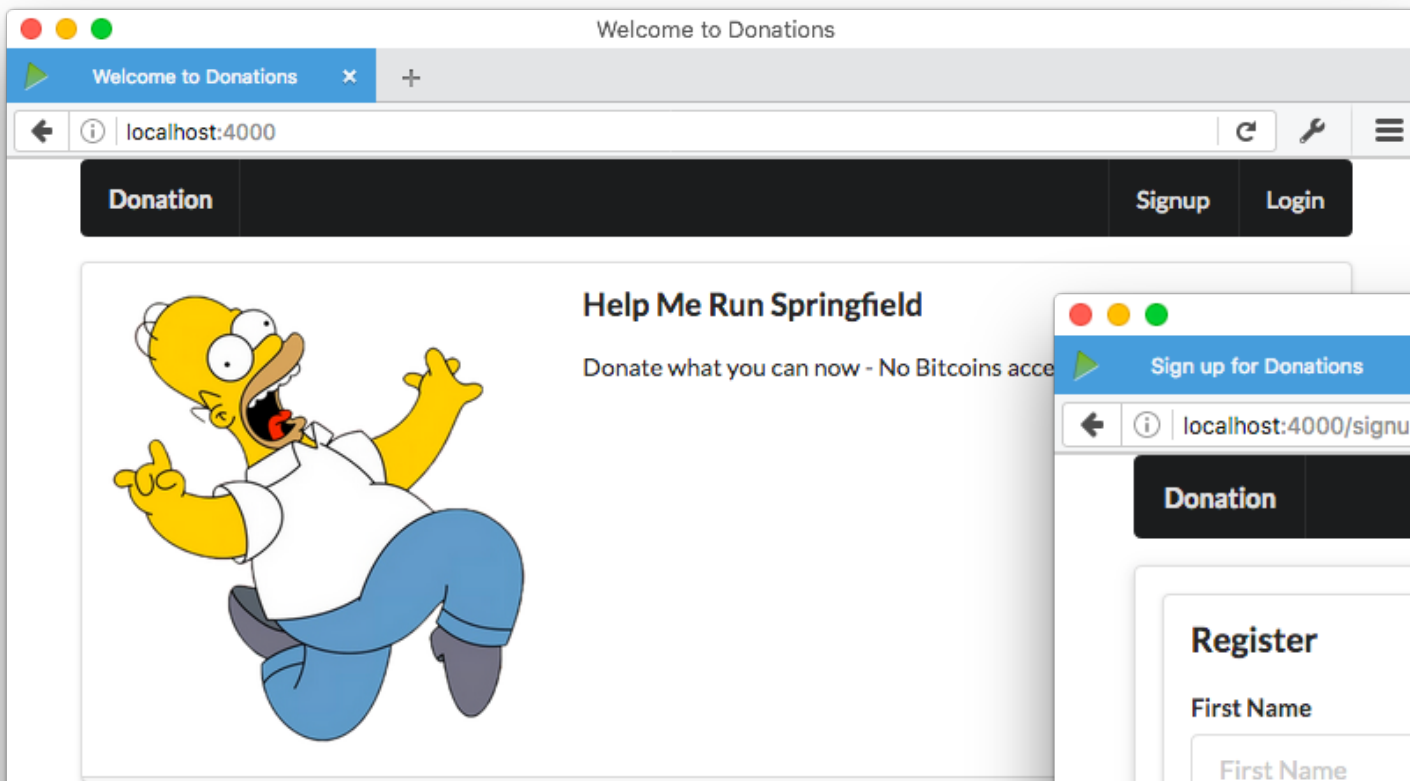
```
server.route({  
  method: 'GET',  
  path: '/photo.png',  
  handler: function (request, reply) {  
    ...  
    reply.file('photo.png');  
  }  
});
```



Hapi looks in filesystem for a file named photo.png and responds with the file's contents

Hapi web server

Skeleton App UI



```
const Donations = require('./app/controllers/donations');
const Assets = require('./app/controllers/assets');

module.exports = [

  { method: 'GET', path: '/', config: Donations.home },
  { method: 'GET', path: '/signup', config: Donations.signup },
  { method: 'GET', path: '/login', config: Donations.login },

  {
    method: 'GET',
    path: '/{param*}',
    config: { auth: false },
    handler: Assets.servePublicDirectory,
  },

];
```

```
'use strict';

exports.home = {

  handler: (request, reply) => {
    reply.file('./app/views/main.html');
  },

};

exports.signup = {

  handler: (request, reply) => {
    reply.file('./app/views/signup.html');
  },

};

exports.login = {

  handler: (request, reply) => {
    reply.file('./app/views/login.html');
  },

};
```

Project Structure

