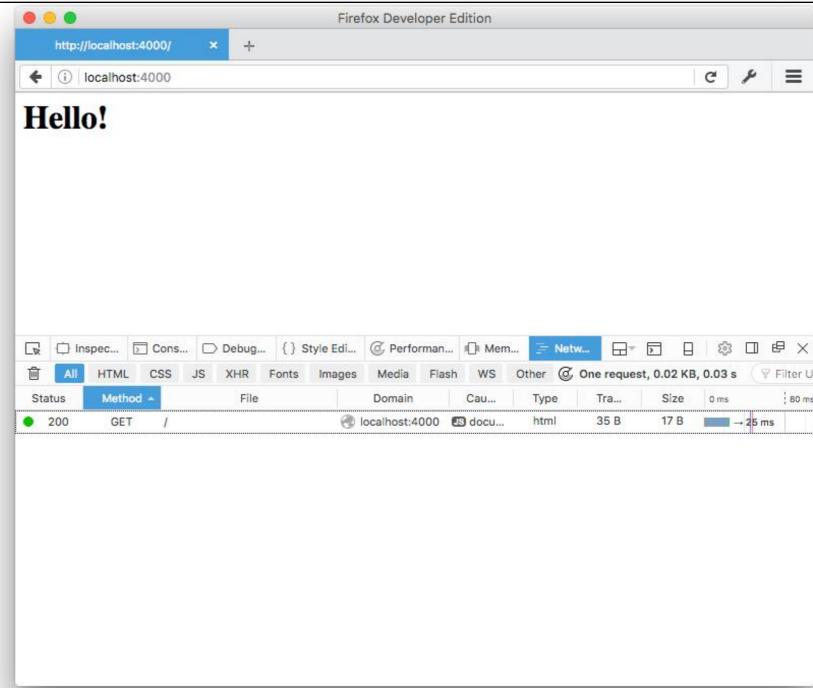
Templates

start.js

response.send

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

```
const start = {
  index(request, response) {
    logger.info('start rendering');
    response.send('<h1> Hello </h1>');
  },
};
```

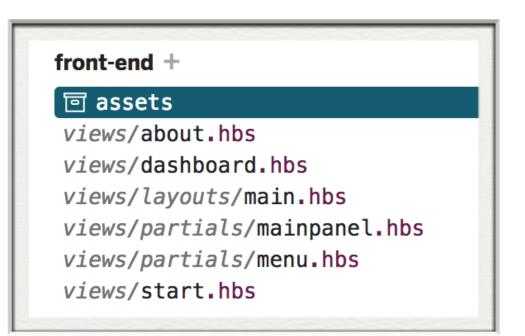


Front-end





- All written in HTML + handlebars
- Handlebars: Templating language
- It supports:
 - Layouts
 - Partials
 - Views



Partials & Layouts

- Partials & Layouts
 play a prominent role
 in enabling DRY
 (Dont Repeat
 Yourself) principles
 - Layouts: Reusable Page Structure



 Partials: Reusable templates



```
<!DOCTYPE html>
<html>
 <head>
  <meta charset="utf-8">
  <title> {{title}} </title>
  <meta charset="UTF-8">
  <script type="text/javascript" src="https://cdn</pre>
  k rel="stylesheet" href="https://cdnjs.cloud
  <script type="text/javascript" src="https://cdn</pre>
  type="text/css" href="/s"
 </head>
 <body>
  <section class="ui container">
  {{{body}}}
  </section>
</body>
</html>
```

```
<h1 class="ui header">
   Title for Dashboard Panel
</h1>

To be replaced with content...
```

Partials

- Handlebars partials allow for code reuse by creating shared templates.
- Calling the partial is done through the partial call syntax:

```
{{> myPartial }}
```

 Will render the partial named myPartial. When the partial executes, it will be run under the current execution context.

myPartial.hbs

```
<section class="ui raised segment">
 <div class="ui grid">
   <aside class="six wide column">
    <img src="images/homer5.jpg" clas</pre>
   </aside>
   <article class="eight wide column">
    <table class="ui celled table seg
      <thead>
        Amount
         Method donated
        </thead>
      {{#each donations}}
           {{amount}} 
            {{method}} 
         {{/each}}
      </article>
 </div>
</section>
```

Layout

- All views will be based on structure laid down in main.hbs.
- Includes Semantic-UI CSS library
- View content will be inserted into {{{body}}}

```
<!DOCTYPE html>
<html>
<head>
 <meta charset="utf-8">
 <title> {{title}} </title>
 <meta charset="UTF-8">
 <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/jque
 <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/sem/</pre>
 link rel="stylesheet" type="text/css" href="/stylesheets/style.css">
</head>
<body>
 <section class="ui container">
 {{{body}}}
 </section>
</body>
</html>
```

Template Expressions

- In addition to layouts + partials, templating also support Template Expressions
- These expressions enable external information to be incorporated into a page.
- This information will be delivered via Javascript Objects



```
<div class="entry">
  <h1>{{title}}</h1>
  <div class="body">
    {{body}}}
  </div>
</div>
```

Tempting Engine

Context

```
var person = {
    firstName: 'Eric',
    surname: 'Praline'
};

Template engine
Rendered HTML

First name: Eric
Surname: Praline
Surname: Praline
Surname: {{surname}}
```

Template Expressions

 A handlebars expression is a {{, some contents, followed by a }}

```
<div class="entry">
  <h1>{{title}}</h1>
  <div class="body">
   {{body}}

  </div>
  </div>
```

```
var context = {title: "My New Post", body: "This is my first post!"};
```

- In Javascript, create an object literal with matching properties
- When rendered, the properties replace the handlebars expressions

```
<div class="entry">
  <h1>My New Post</h1>
  <div class="body">
    This is my first post!
  </div>
</div>
```

each helper

You can iterate over a list using the built-in each helper. Inside the block, you can use this to reference the element being iterated over.

```
   {#each people}}
   {\this}}
   {{each}}
```

when used with this context:

```
people: [
    "Yehuda Katz",
    "Alan Johnson",
    "Charles Jolley"
]
}
```

will result in:

about.js

```
'use strict';

const logger = require('../utils/logger');

const about = {
  index(request, response) {
  logger.info('about rendering');
  const viewData = {
    title: 'About Playlist 1',
  };
  response.render('about', viewData);
  },
};

module.exports = at
```

About Controller -> About View

```
Playlist 1 Dashboard About

A Little Playlist Maker - Version 1
```

about.hbs

response.render
 locates the named
 template and
 sends it to the
 browser

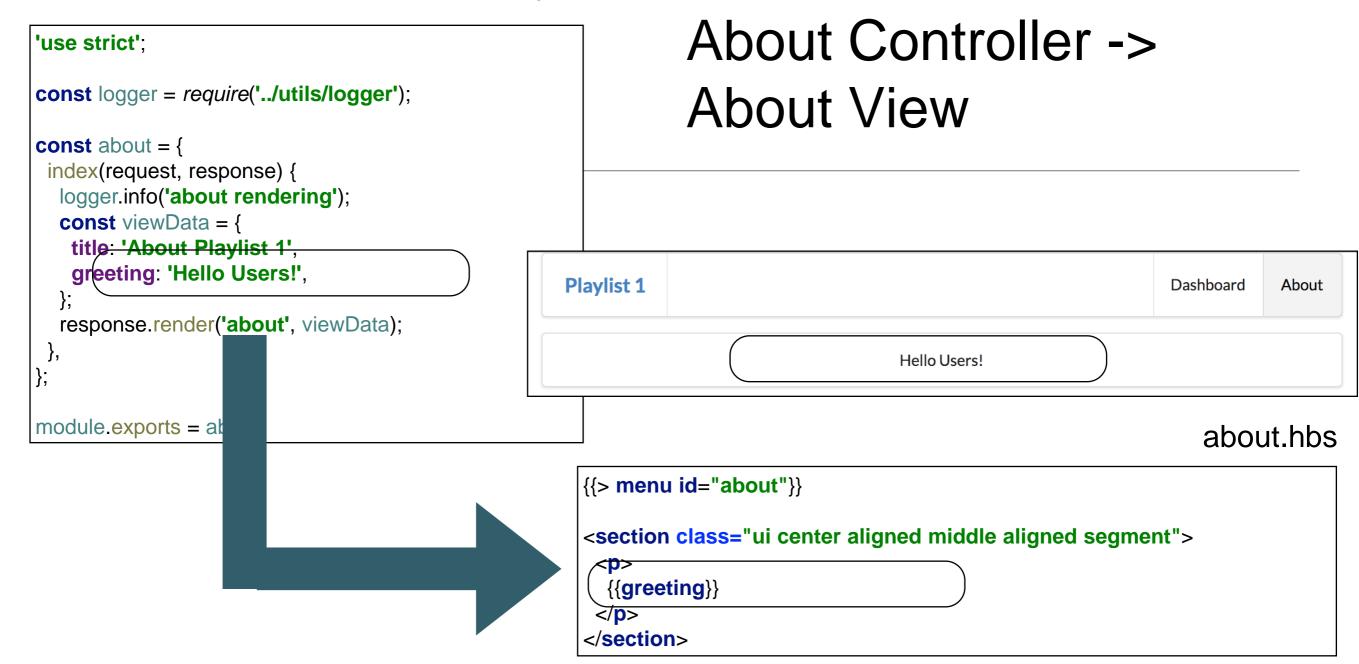
```
{{> menu id="about"}}

<section class="ui center aligned middle aligned segment">

        A Little Playlist Maker - Version 1

      </sect</pre>
```

 It also passes the viewData object to the view about.js



 We can pass simple and complex data to the views

 {{greeting}} replaced with the value in the viewData object called 'greeting'