



Meteor – Module 2

INF1802

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Outline – Module 2

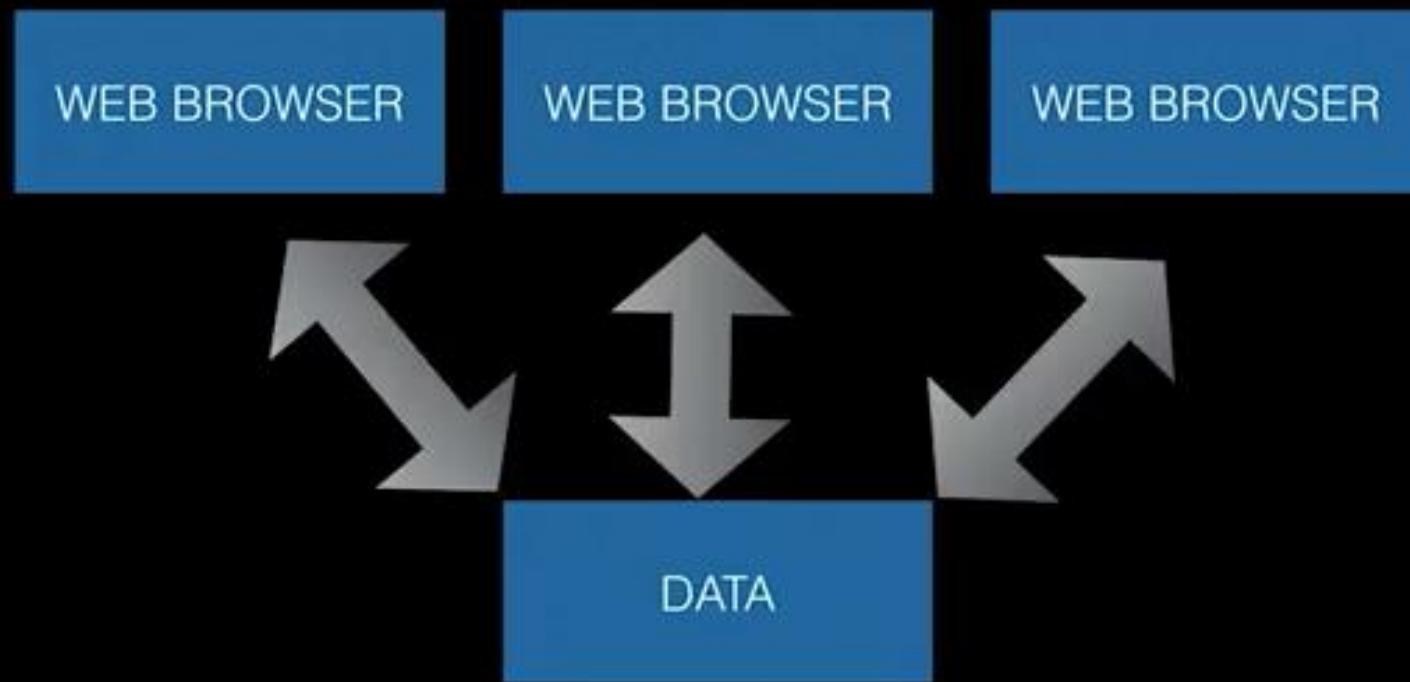
- Meteor Distributed Data Model, mongoDB
- Creating a Collection
- Adding items in a Collection
- Removing items
- Adding items using a Form
- Sorting
- Layout and Navigation
- View item details
- Editing an item

Reference

- Meteor
 - <https://www.meteor.com/>
 - <http://guide.meteor.com/>
- Discover Meteor. Tom Coleman, Sacha Greif.
 - <http://pt.discovermeteor.com/pdf>
- Coursera Responsive Website Development and Design Specialization, Dr Matthew Yee-King, University of London, 2016.
 - Course Introduction to Meteor.js Development
<https://www.coursera.org/learn/meteor-development/home/welcome>
 - Web Application Development with JavaScript and MongoDB
<https://www.coursera.org/learn/web-application-development/home/welcome>

1 – Meteor Distributed Data Model

Why a server?



```
graph LR; CB[WEB BROWSER] --- CD[CENTRAL DATA]; CD --- CS[SERVER];
```

WEB
BROWSER

SERVER

CENTRAL
DATA

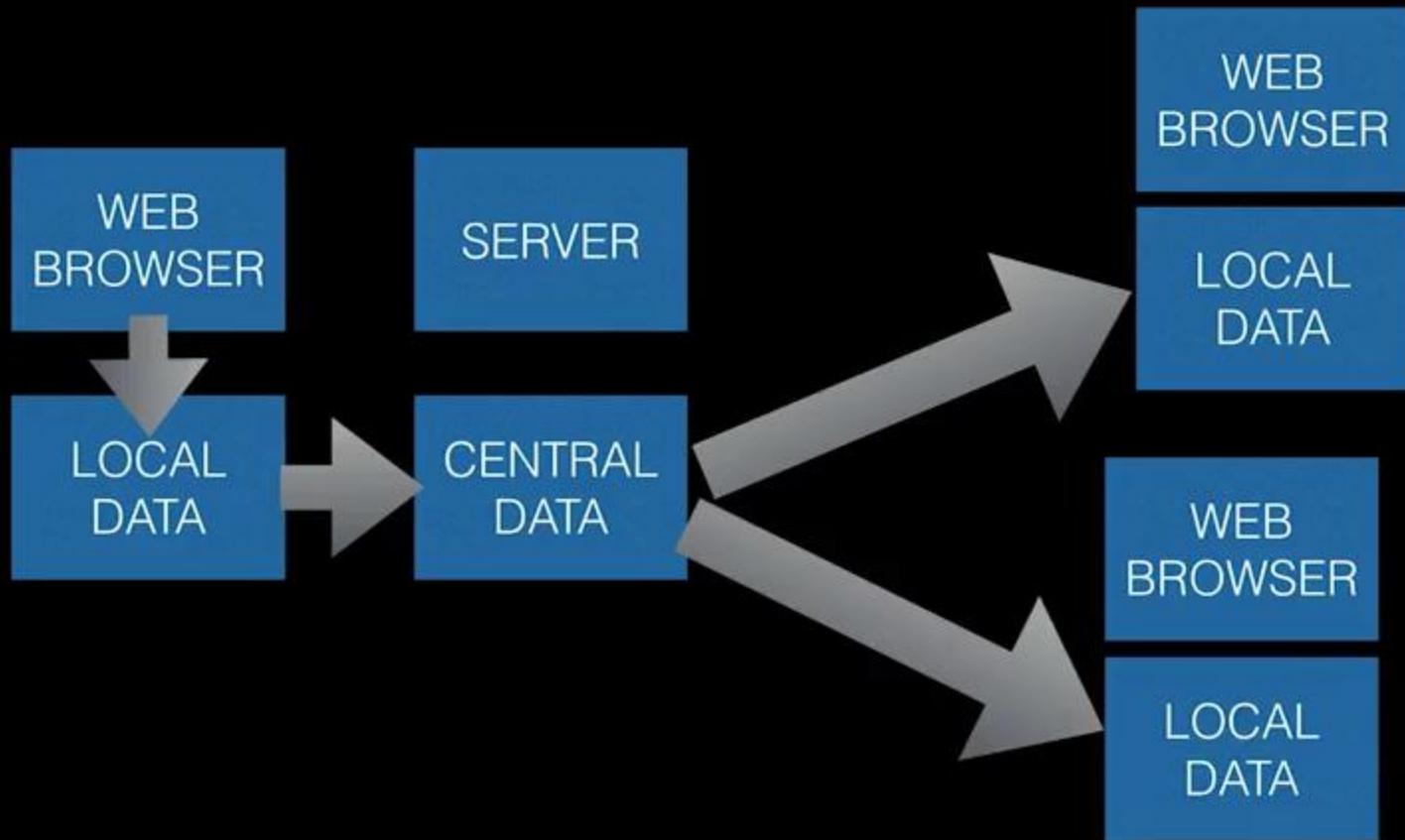
```
graph LR; CB[WEB BROWSER] --- LD[LOCAL DATA]; LD --- CS[SERVER];
```

WEB
BROWSER

SERVER

LOCAL
DATA

CENTRAL
DATA



Meteor uses data on the wire, meaning the server sends data, not HTML, and the client renders it.

2 – Creating a Collection and Adding Items

3 – Removing itens from a collection

Create your application

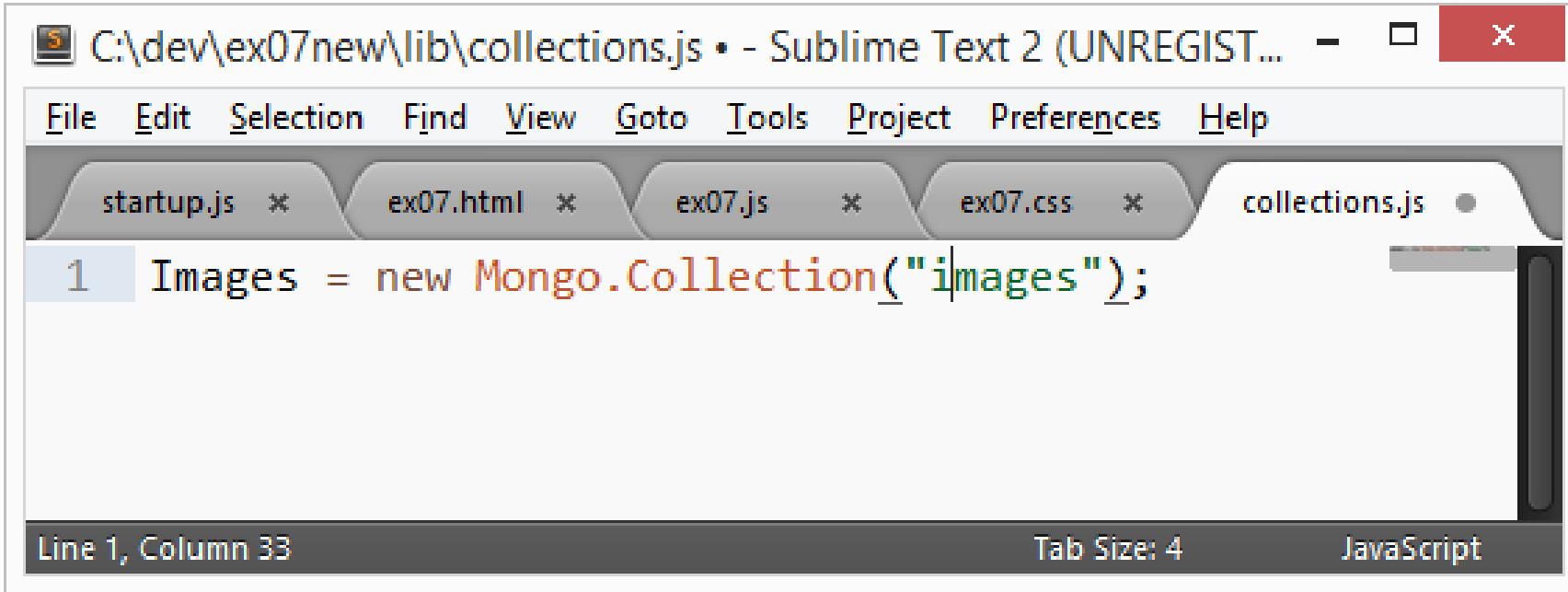
- Windows command prompt:
 - > cd dev
 - > meteor create myproject
 - > cd myproject
 - > meteor

Folder Structure - myproject

- Server
 - startup.js
- Client
 - main.js, main.html, main.css
- Public
 - image1.jpg, image2.jpg, image3.jpg ...
- Lib
 - collections.js

Create a collection of images in the database

lib/ collections.js



The screenshot shows a Sublime Text 2 window with the following details:

- Title Bar:** C:\dev\ex07new\lib\collections.js • - Sublime Text 2 (UNREGISTERED)
- Menu Bar:** File Edit Selection Find View Goto Tools Project Preferences Help
- Tab Bar:** startup.js, ex07.html, ex07.js, ex07.css, collections.js
- Code Area:** Line 1, Column 33. The code is:

```
1 Images = new Mongo.Collection("images");
```
- Status Bar:** Tab Size: 4, JavaScript

This code is outside client and server folders.

Insert and Count images

Server/ startup.js



The screenshot shows a Sublime Text 2 window with the title bar "C:\dev\ex07new\server\startup.js • - Sublime Text 2 (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. Below the menu is a tab bar with tabs for "startup.js", "ex07.html", "ex07.js", "ex07.css", and "collections.js". The main editor area contains the following Meteor startup code:

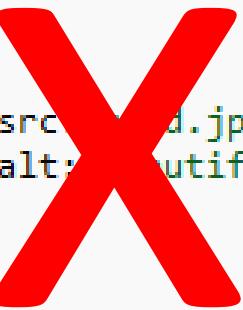
```
1 Meteor.startup(function(){
2
3     if(Images.find().count() == 0) {
4
5         for (var i=1; i< 9; i++){
6             Images.insert(
7                 {
8                     img_src:"img"+i+".jpg",
9                     img_alt:"image number" + i
10
11                }
12            ); // insert
13        } // for
14    }
15
16    console.log("startup.js says" + Images.find().count());
17 } //end if have no images
18
19}); // end startup
20
21
```

The status bar at the bottom left indicates "Line 15, Column 13". A green sidebar on the right contains a warning message.

Warning!
The startup function runs only if there is no images in the Collection.
You must reset and re-start the Meteor to clean data in the database.

Client/ main.js

```
4
5
6 var img_data = [
7   {
8     img_src:"cat.jpg",
9     img_alt:"beautiful black and white cat"
10
11 },
12 {
13   img_src:"bird.jpg",
14   img_alt:"beautiful bird"
15
16 },
17 {
18   img_src:"dog.jpg",
19   img_alt:"cute dog"
20
21 },
22 ];
23
24 //Template.images.helpers({images:img_data});
25 Template.images.helpers({images:Images.find()});
26
27 Template.images.events({
28   'click .js-image':function(event){
29     $(event.target).css("width","50px");
30
31 }
```



We don't need the array of images now.
We insert the images in the database.

Client/ main.html

```
4
5 <body>
6   <h1>Animals Gallery</h1>
7   <div class="container">
8     {{> images}}
9   </div>
10 </body>
11
12
13 <template name="images">
14
15 <div class="row">
16   {{#each images}}
17
18     <div class="col-xs-12 col-md-3">
19       <div class="thumbnail">
20
21         
22
23         <div class="caption">
24           <h3> Thumbnail label</h3>
25           <p> Description of the image</p>
26           <button class="js-del-image btn-warning"> delete </button>
27         </div>
28       </div>
29     </div> <!-- /col -->
30
31   {{/each}}
32 </div> <!-- /row -->
33
34 </template>
```

Delete an image – define the event listener

Client/ main.js

C:\dev\ex07new\client\ex07.js - Sublime Text 2 (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
startup.js • ex07.html * ex07.js * ex07.css * collections.js •

1 Template.images.helpers({images:Images.find()});
2
3 Template.images.events({
4
5   'click .js-image':function(event){
6
7     var image_id = this._id;
8     var image_src = this.img_src;
9     console.log("You clicked on image " + image_id + " - " + image_src);
10 },
11
12 'click .js-del-image':function(event){
13
14   var image_id = this._id;
15   var image_src = this.img_src;
16   console.log("You deleted the image " +image_id + " - " + image_src);
17
18   //delete
19   Images.remove({_id:image_id});
20
21 }           {"_id":image_id} is a Mongo Filter
22
23}); // end template.images.events
24
25
26
27
```

Line 9, Column 39 Tab Size: 4 JavaScript

This refers to the data the template was displaying (the image)

'_id' refers to a unique identifier for an item in a Mongo collection

Define the max and min height of the thumbnails

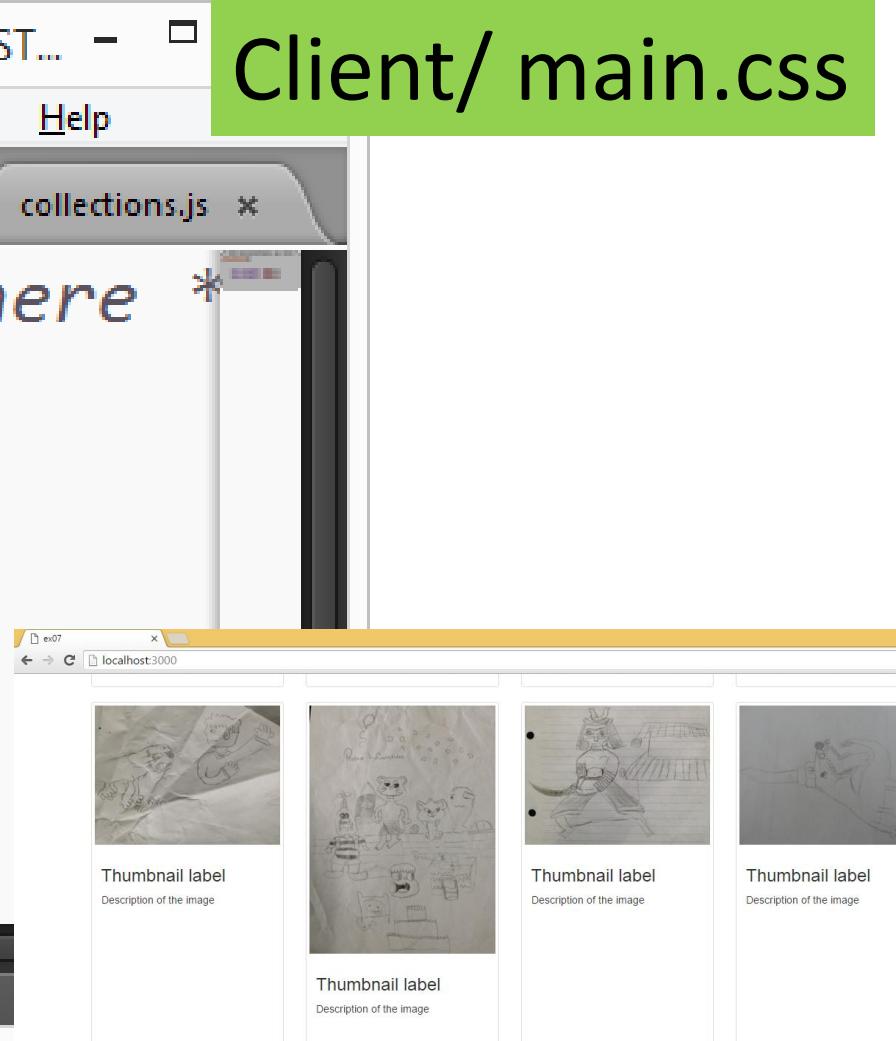
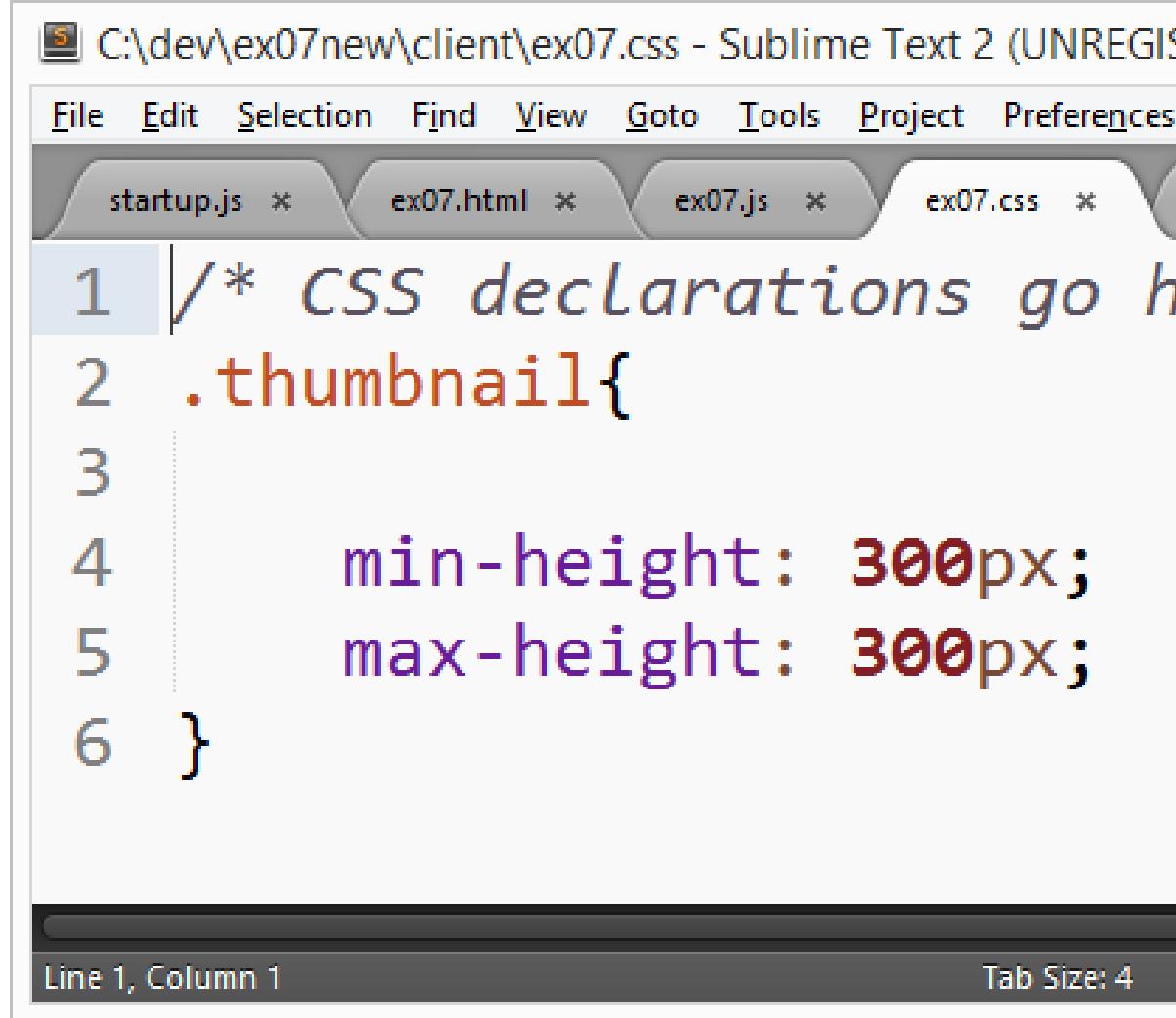
C:\dev\ex07new\client\ex07.css - Sublime Text 2 (UNREGISTERED) - Client/ main.css

File Edit Selection Find View Goto Tools Project Preferences Help

startup.js * ex07.html * ex07.js * ex07.css * collections.js *

```
1 /* CSS declarations go here */
2 .thumbnail{
3
4     min-height: 300px;
5     max-height: 300px;
6 }
```

Line 1, Column 1 Tab Size: 4



Delete an image – slowly effect

C:\dev\ex07\ex07.html - Sublime Text 2 (UNREGISTERED)

Add a div id.
The image object has an id property (mongo db)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

ex07.js * ex07.html

```
12
13     <template name="images">
14
15     <div class="row">
16         {{#each images}}
17
18         <div class="col-xs-12 col-md-3" id="{{_id}}>
19             <div class="thumbnail">
20
21                 
24                         <h3>Thumbnail label</h3>
25                         <p>Description of the image</p>
26                         <button class="js-del-image btn-warning">
27                             button</button>
28                     </div>
29                 </div>
30             </div> <!-- /col -->
31
32         {{/each}}
33     </div> <!-- /row -->
34
35     </template>
```

localhost:3000

Animals Gallery

Thumbnail label

Description of the image

delete

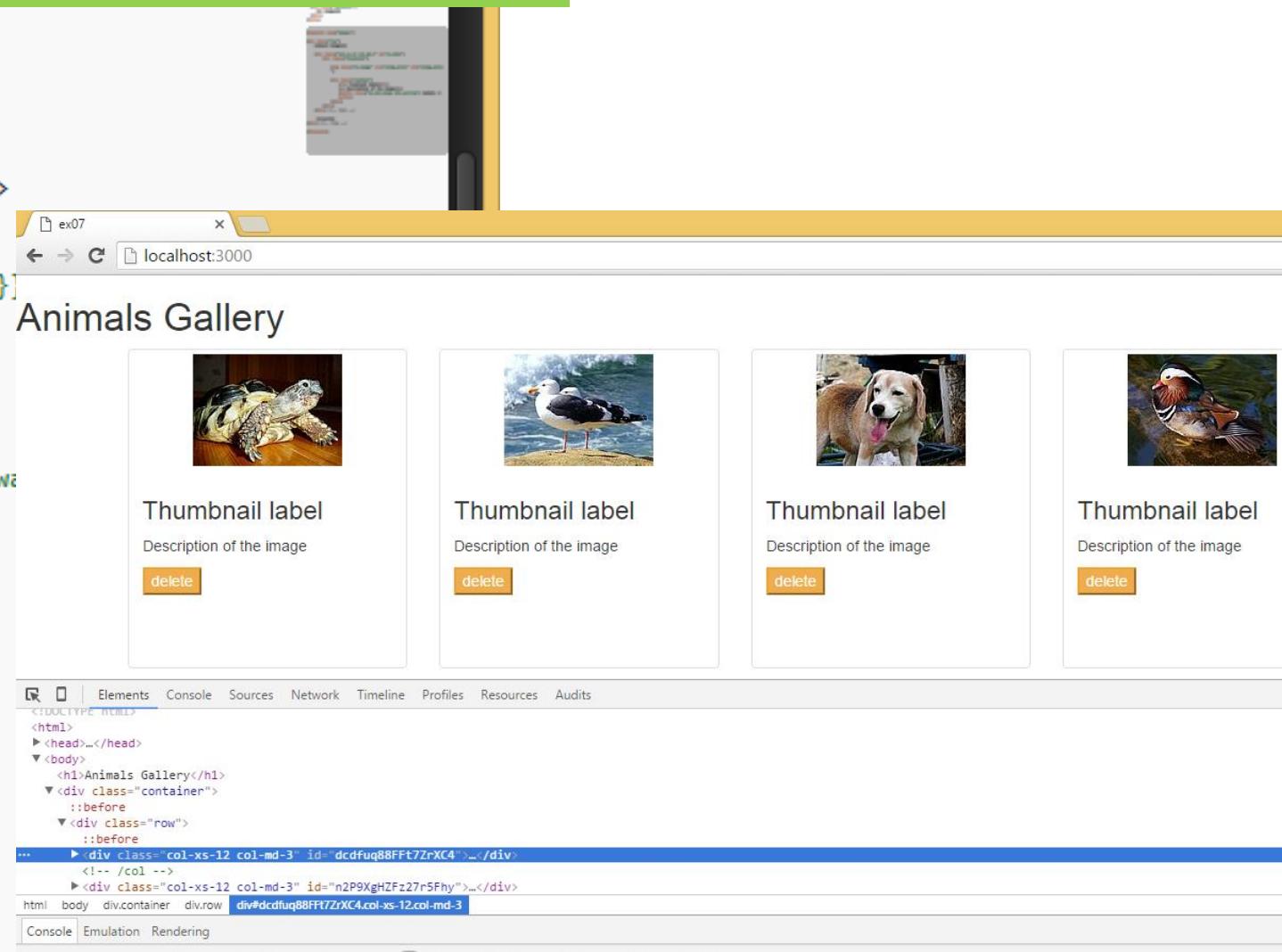
Thumbnail label

Description of the image

delete

Elements Console Sources Network Timeline Profiles Resources

```
<!DOCTYPE HTML>
<html>
  <head>...</head>
  <body>
    <h1>Animals Gallery</h1>
```



C:\dev\ex07\ex07.js • - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

ex07.js ex07.html startup.js ex07.css

```
4
5 if (Meteor.isClient) {
6
7 Template.images.helpers({images:Images.find()});
8
9 Template.images.events({
10   'click .js-image':function(event){
11     $(event.target).css("width","50px");
12   },
13   'click .js-del-image':function(event){
14     var image_id = this._id;
15     console.log(image_id);
16
17     // hide slowly
18     $("#" + image_id).hide('slow',function(){
19       //delete
20       Images.remove({_id:image_id});
21
22     })
23   }
24
25 });
26
27 }); // end template.images.e
28
29 }
```

Jquery selector \$("#" + image_id)

When you've finished hiding it,
actually delete it from the
collection.
That will basically cause jquery to
animate the whole component
out of view.

Line 18, Column 19

Spaces: 2 JavaScript

C:\dev\ex07\ex07.html - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

ex07.js ex07.html startup.js ex07.css

```
12
13 <template name="images">
14
15 <div class="row">
16   {{#each images}}
17
18   <div class="col-xs-12 col-md-3" id="{{_id}}>
19     <div class="thumbnail">
20
21       
24         <h3>Thumbnail label</h3>
25         <p>Description of the image</p>
26         <button class="js-del-image btn-warning"> delete </
27           button>
28
29       </div>
30     </div> <!-- /col -->
31
32   {{/each}}
33 </div> <!-- /row -->
34
35 </template>
```

12 characters selected

Tab Size: 4

HTML

A screenshot of a web browser window titled "ex07". The address bar shows "localhost:3000". The main content area displays a "Animals Gallery" with three items:

-  **Thumbnail label**
Description of the image
delete
-  **Thumbnail label**
Description of the image
delete
-  **Thumbnail label**
Description of the image
delete

The developer tools are open, showing the Element tab with the DOM tree and the Styles tab with CSS rules.

Elements Tab:

```
<!DOCTYPE html>
<html>
  <head>...</head>
  <body>
    <h1>Animals Gallery</h1>
    <div class="container">
      ::before
      <div class="row">
        ::before
        <div class="col-xs-12 col-md-3" id="dcdfuq88FFt7ZrXC4">...</div>
        <!-- /col -->
        <div class="col-xs-12 col-md-3" id="yY7e95ckGFkHqt6Zm">...</div>
    </div>
  </body>
</html>
```

Styles Tab:

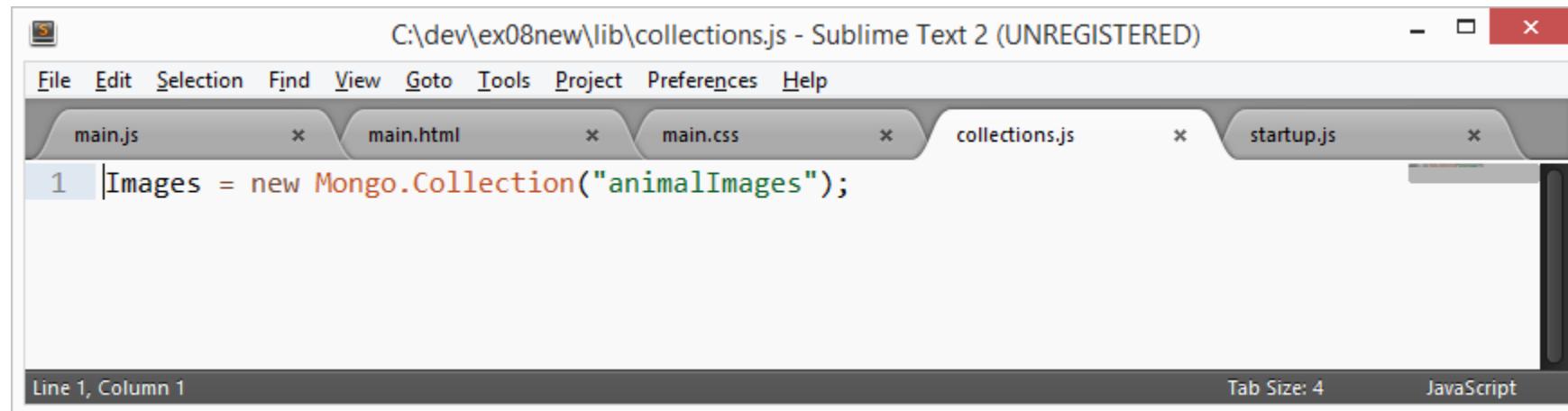
```
.css:1936
@media
(min-
width:
992px)
```

4 – Addings itens in a collection
with basic form

Create your application and install Bootstrap

- Windows command prompt:
 - > cd dev
 - > meteor create myproject
 - > cd myproject
 - > meteor add twbs:bootstrap
 - > meteor

lib/ collections.js



C:\dev\ex08new\lib\collections.js - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.js main.html main.css collections.js startup.js

```
1 |Images = new Mongo.Collection("animalImages");
```

Line 1, Column 1 Tab Size: 4 JavaScript

Server/ startup.js

C:\dev\ex08new\server\startup.js - Sublime Text 2 (UN)

File Edit Selection Find View Goto Tools Project Preferences Help

main.js main.html main.css collections.js startup.js

```
1 Meteor.startup(function(){
2
3     if(Images.find().count() == 0) {
4
5         for (var i=1; i< 9; i++){
6             Images.insert(
7                 {
8                     img_src:"img"+i+".jpg",
9                     img_alt:"image number" + i,
10                    img_title:"image title" + i,
11                    img_author:"image author" + i,
12
13                }
14            ); // insert
15        } // for
16
17    } //end if have no images
18
19
20    console.log("startup.js says" + Images.find().count());
21
22}); // end startup
23
24
```

Line 5, Column 1 Tab Size: 4 JavaScript

File Edit Selection Find View Goto Tools Project Preferences Help

main.js

main.html

main.css

collections.js

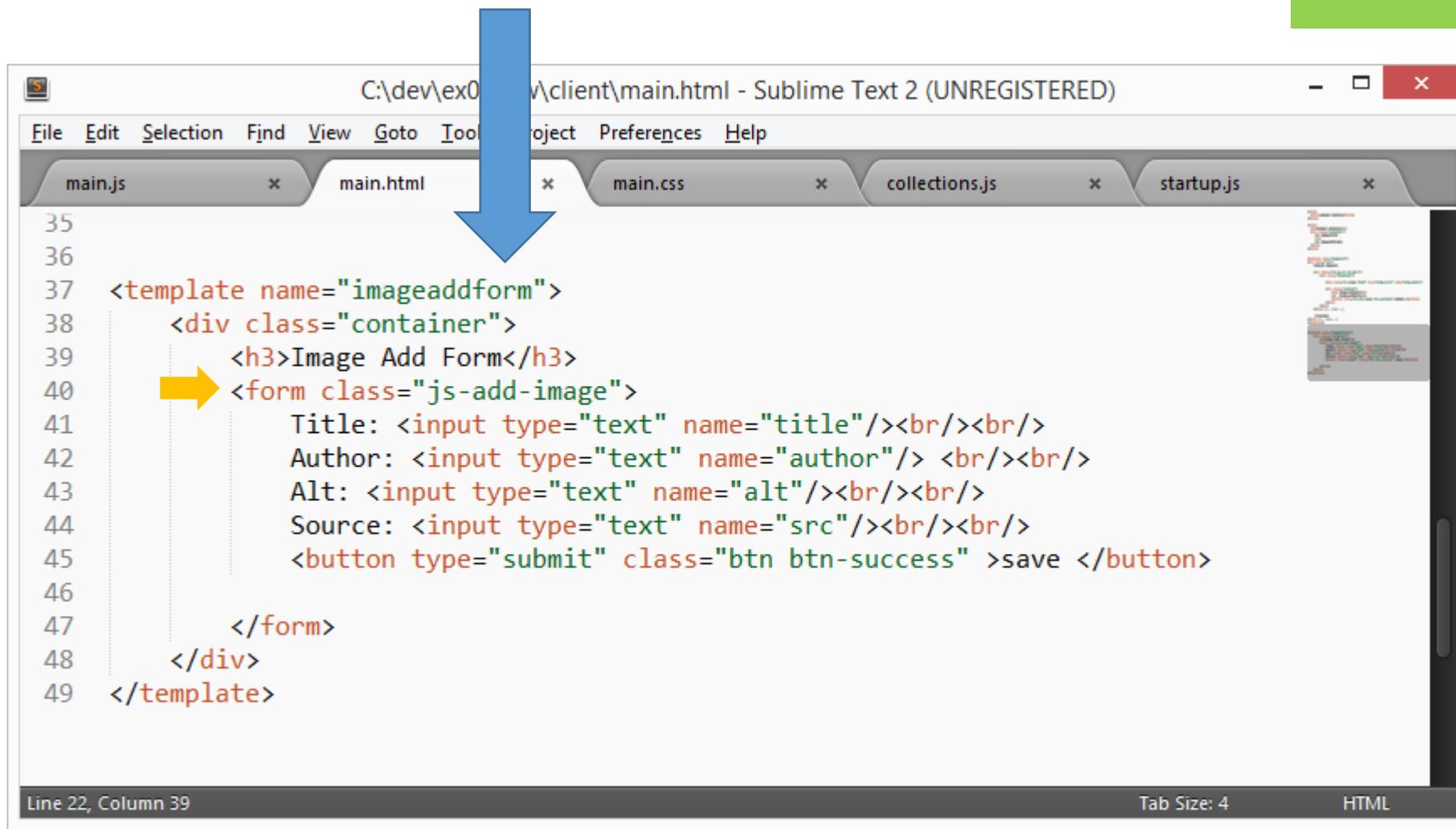
start

Client/ main.html

```
5  <body>
6    <h1>Animals Gallery</h1>
7    <div class="container">
8      {{> imagelist}}
9      <hr>
10     {{> imageaddform}}
11   </div>
12 </body>
13
14
15 <template name="imagelist">
16 <div class="row">
17   {{#each images}}
18
19     <div class="col-xs-12 col-md-3">
20       <div class="thumbnail">
21
22         
23
24         <div class="caption">
25           <h3> {{img_title}}</h3>
26           <p> {{img_author}}</p>
27           <button class="js-del-image btn-warning"> delete </button>
28         </div>
29       </div>
30     </div> <!-- /col -->
31
32   {{/each}}
33 </div> <!-- /row -->
34 </template>
```



Client/ main.html



C:\dev\ex0 C:\dev\ex0\client\main.html - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.js main.html main.css collections.js startup.js

```
35
36
37 <template name="imageaddform">
38   <div class="container">
39     <h3>Image Add Form</h3>
40     <form class="js-add-image">
41       Title: <input type="text" name="title"/><br/><br/>
42       Author: <input type="text" name="author"/> <br/><br/>
43       Alt: <input type="text" name="alt"/><br/><br/>
44       Source: <input type="text" name="src"/><br/><br/>
45       <button type="submit" class="btn btn-success" >save </button>
46
47     </form>
48   </div>
49 </template>
```

Line 22, Column 39 Tab Size: 4 HTML



main.js * main.html * main.css * collections.js

```
1 // ****
2 // Template imagelist
3 // ****
4
5 Template.imagelist.helpers({images:Images.find()});
6
7 Template.imagelist.events{
8
9     'click .js-image':function(event){
10
11         var image_id = this._id;
12         var image_src = this.img_src;
13         console.log("You clicked on image " + image_id + " - " + image_src);
14     },
15
16     'click .js-del-image':function(event){
17
18         var image_id = this._id;
19         var image_src = this.img_src;
20         console.log("You deleted the image " +image_id + " - " + image_src);
21
22         //delete
23         Images.remove({_id:image_id});
24
25     }
26
27 }); // end template.imagelist.events
28
29
```

Client/ main.js

Client/ main.js

```
30 // ****
31 // Template.imageaddform
32 // ****
33
34
35 Template.imageaddform.events({
36     'submit .js-add-image':function(event){
37         //problem though since our page still refreshes whenever the form is submitted and we can't see the console.log
38         event.preventDefault();
39
40         var image_title;
41         var image_author;
42         var image_alt;
43         var image_id = this._id;
44         var image_src = this.img_src;
45
46         image_title = event.target.title.value;
47         image_author = event.target.author.value;
48         image_alt = event.target.alt.value;
49         image_src = event.target.src.value;
50
51
52         console.log("Adding Image - title: "+image_title + " author: "+image_author+ " source: "
53             +image_src+ " alt: "+image_alt);
54
55         Images.insert({
56             img_title:image_title,
57             img_author:image_author,
58             img_alt:image_alt,
59             img_src:image_src,
60             createdOn: new Date()
61         });
62
63         console.log("Success ! Add Image - Title: "+image_title+" Author: "
64             +image_author + " Source:"+image_src + ".");
65
66         return false;
67     }
68 });
69}); // end template.bookaddform.events
```

It will just stop the browser from doing whatever it normally does when they submit a form. The browser normally reloads page and it just wipes everything that was in the console.

C:\dev\ex08new\client\main.html - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.js main.html main.css collections.js startup.js

```
14
15 <template name="imagelist">
16 <div class="row">
17   {{#each images}}
18
19   <div class="col-xs-12 col-md-3">
20     <div class="thumbnail">
21
22       
23
24       <div class="caption">
25         <h3> {{img_title}}</h3>
26         <p> {{img_author}}</p>
27         <button class="js-del-image btn-warning"> delete </button>
28       </div>
29     </div>
30   </div> <!-- /col -->
31
32   {{/each}}
33 </div> <!-- /row -->
34 </template>
```

Line 22, Column 39

Tab Size: 4 HTML

D)

main.js main.html main.css collections.js startup.js

```
1 /* CSS declarations go here */
2 .thumb{
3
4   min-height: 150px;
5   max-height: 150px;
6 }
```

Animal Gallery White Tiger 6 (386579059) File:White Tiger 6 (3865790598).jpg 736px-White_Tiger_6_(3865790598).jpg tiger - Pesquisa Google

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Page information
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File:White Tiger 6 (3865790598).jpg

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https://commons.wikimedia.org/w/index.php?curid=27317149#

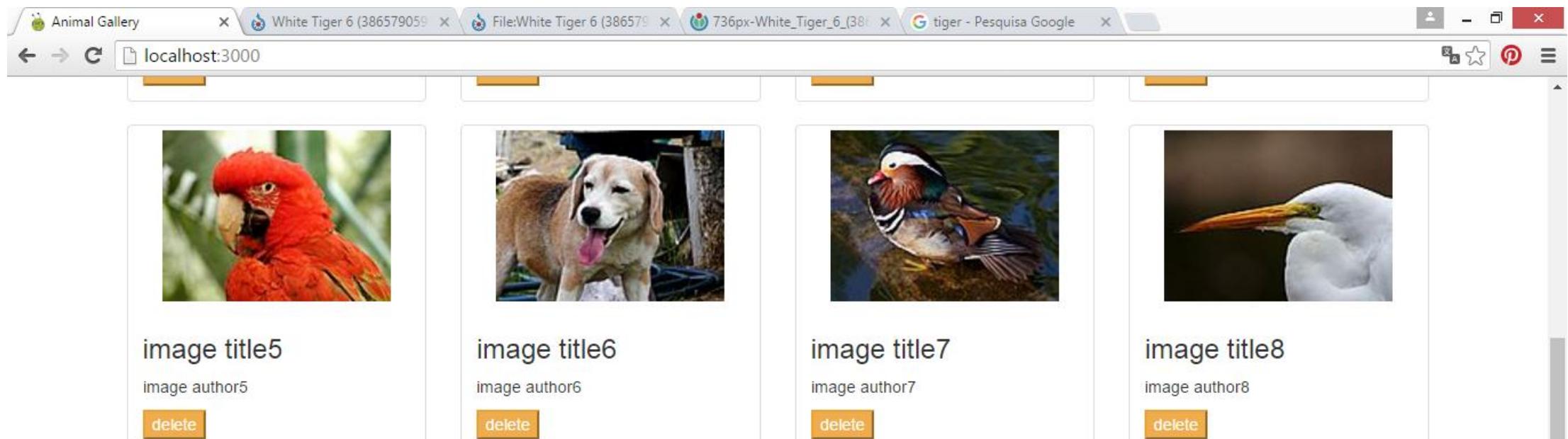


Image Add Form

Title:

Author:

Alt:

Source:

save

Animal Gallery White Tiger 6 (386579059) File:White Tiger 6 (386579... 736px-White_Tiger_6_(386579059).jpg tiger - Pesquisa Google

localhost:3000



image title5
image author5
[delete](#)



image title6
image author6
[delete](#)



image title7
image author7
[delete](#)



image title8
image author8
[delete](#)



Tiger
Tony Hisgett
[delete](#)

C:\dev\ex08new\client\main.js - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.js main.html main.css collections.js startup.js

```
1 // ****
2 // Template imagelist
3 // ****
4
5 Template.imagelist.helpers({
6   images:Images.find(
7     {},{sort:{createdOn:-1}}
8   ));
9
```

4 lines, 100 characters selected

Specify in the sort parameter the field or fields to sort by and a value of 1 or -1 to specify an ascending or descending sort respectively.

5 – Navigation and Layout with iron router

Create your application, install Bootstrap and Router

- Windows command prompt:

- > cd dev
- > meteor create myproject
- > cd myproject
- > meteor add twbs:bootstrap
- > meteor add iron:router
- > meteor

You can install iron:router using Meteor's package management system

<http://iron-meteor.github.io/iron-router/>

```
C:\dev\ex09new\client\temp.js • - Sublime Text 2 (UNREGISTERED) - □ ×  
File Edit Selection Find View Goto Tools Project Preferences Help  
main.js • temp.js •  
1 Router.route('/', function () {  
2   this.render('Home');  
3 };  
4  
5  
6  
7  
8 Router.route('/items');
```

Line 8, Column 24 Tab Size: 4 JavaScript

When the user navigates to the url "/", the route above will render the template named "Home" onto the page.

This second route will automatically render a template named "Items" or "items" to the page.

Client/ main.html

Client\\main.html

File Edit Selection Find View Go

main.html * main.js — ex09new

```
1 <head>
2   <title>Animal Gal
3 </head>
4
5 <template name="ApplicationLayout">
6   {{>yield "header-area"}}
7   {{>yield "main-area"}}
8 </template>
9
10
```

Layouts

Layouts allow you to reuse a common look and feel in multiple pages in your application so you don't have to duplicate the html and logic on every single page template.

Layouts are just templates. But, inside of a layout you can use a special helper called **yield**. You can think of yield as a placeholder for content.

The placeholder is called a region. The content will be "injected" into the region when we actually run our route.

This lets us reuse the layout on many different pages, only changing the content of the yield regions.

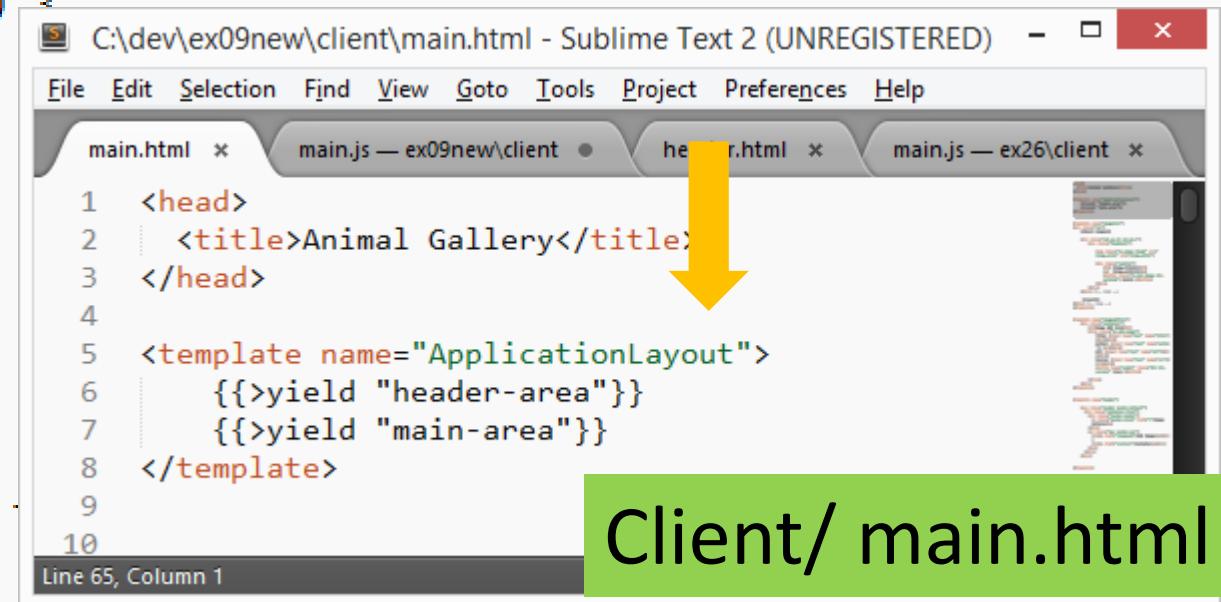
Line 65, Column 1

Tab Size: 4

HTML

```
84 });
85 this.render('imageelist',{
86   to:"main-area"
87 });
88 });
89
90 Router.route('/imageadd', function () {
91   this.render('header',{
92     to:"header-area"
93 });
94   this.render('imageaddform',{
95     to:"main-area"
96 });
97 });
98
99 Router.route('/contact', function () {
100   this.render('header',{
101     to:"header-area"
102 });
103   this.render('contact',{
104     to:"main-area"
105 });
106 });
```

If you want to use a default layout template for all routes you can configure a global Router option.



```
File Edit Selection Find View Goto Tools Project Preferences Help
main.html * main.js — ex09new\client • header.html * main.js — ex26\client *
1 <head>
2   <title>Animal Gallery</title>
3 </head>
4
5 <template name="ApplicationLayout">
6   {{>yield "header-area"}}
7   {{>yield "main-area"}}
8 </template>
9
10
Line 65, Column 1
```

Client/ main.html

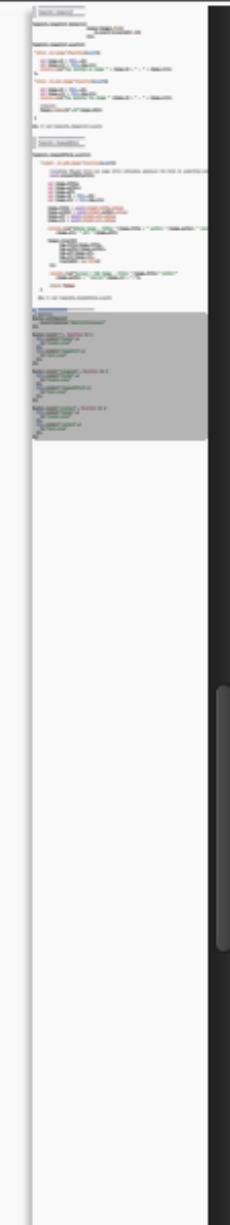
main.html

main.js — ex09new\client

header.html

main.js — ex26\client

```
76 // Routing
77 Router.configure({
78   layoutTemplate:'ApplicationLayout'
79 });
80
81 Router.route('/', function () {
82   this.render('header',{
83     to:"header-area"
84   });
85   this.render('imagelist',{
86     to:"main-area"
87   });
88 });
89
90 Router.route('/imageadd', function () {
91   this.render('header',{
92     to:"header-area"
93   });
94   this.render('imageaddform',{
95     to:"main-area"
96   });
97 });
98
99 Router.route('/contact', function () {
100   this.render('header',{
101     to:"header-area"
102   });
103   this.render('contact',{
104     to:"main-area"
105   });
106 });
```



```
1 <head>
2   <title>Animal Gallery</title>
3 </head>
4
5 <template name="ApplicationLayout">
6   {{>yield "header-area"}}
7   {{>yield "main-area"}}
8 </template>
9
10 <template name="imagelist">
11 ...
12 </template>
13
14 <template name="imageaddform">
15   <div class="container">
16 ...
17 </template>
18
19 <template name="header">
20   <nav class="navbar navbar-default">
21     <div class="container-fluid">
22       <div class="navbar-header">
23         <a class="navbar-brand" href="/">Image Gallery</a>
24       </div>
25       <ul class="nav navbar-nav">
26         <li><a href="/imageadd">Add Image</a></li>
27         <li><a href="/contact">Contato</a></li>
28       </ul>
29     </div>
30   </nav>
31 </template>
32
33 <template name="contact">
34   <p> Contact Information here </p>
35 </template>
```



Client/ main.html

main.js — ex09new\client * temp.js main.js — ex26\client * bookaddform.html *

```
37 Template.imageaddform.events({
38
39     'submit .js-add-image':function(event){
40
41         //problem though since our page still refreshes whenever the form is submitted and we can't see the console.log statements.
42         event.preventDefault();
43
44         var image_title;
45         var image_author;
46         var image_alt;
47         var image_id = this._id;
48         var image_src = this.img_src;
49
50         image_title = event.target.title.value;
51         image_author = event.target.author.value;
52         image_alt = event.target.alt.value;
53         image_src = event.target.src.value;
54
55         console.log("Adding Image - title: "+image_title + " author: "+image_author+ " source: "
56             +image_src+ " alt: "+image_alt);
57
58         Images.insert({
59             img_title:image_title,
60             img_author:image_author,
61             img_alt:image_alt,
62             img_src:image_src,
63             createdOn: new Date()
64         });
65
66         console.log("Success ! Add Image - Title: "+image_title+" Author:"
67             +image_author + " Source:"+image_src + ".");
68
69         Router.go('/');
70         return false;
71     }
}
```

Client/ main.js

Test yourself with Exercises

- Continue o exercício feito em sala de aula da image gallery
- Tire todas as suas dúvidas para que esteja funcionando o código até o exercício dado em sala de aula (até o slide anterior). Precisa funcionar a página com a listagem de imagens com opção de remoção de imagem, o formulário de cadastro de imagem e a página de contato. Todos as páginas com a barra de navegação no topo. Use os pacotes twbs:bootstrap e iron:router.
- Faça os exercícios definidos nos próximos slides.

1. Adapte o seu código para apresentar cada registro em uma única linha. Tanto a imagem quanto os botões devem estar alinhados a esquerda. Crie os três botões (delete, view details* e see more) usando estilos do Bootstrap. * A ação do botão “view details” não é para ser implementada agora. Este será um assunto da próxima aula.

Image Gallery Add Image Contato



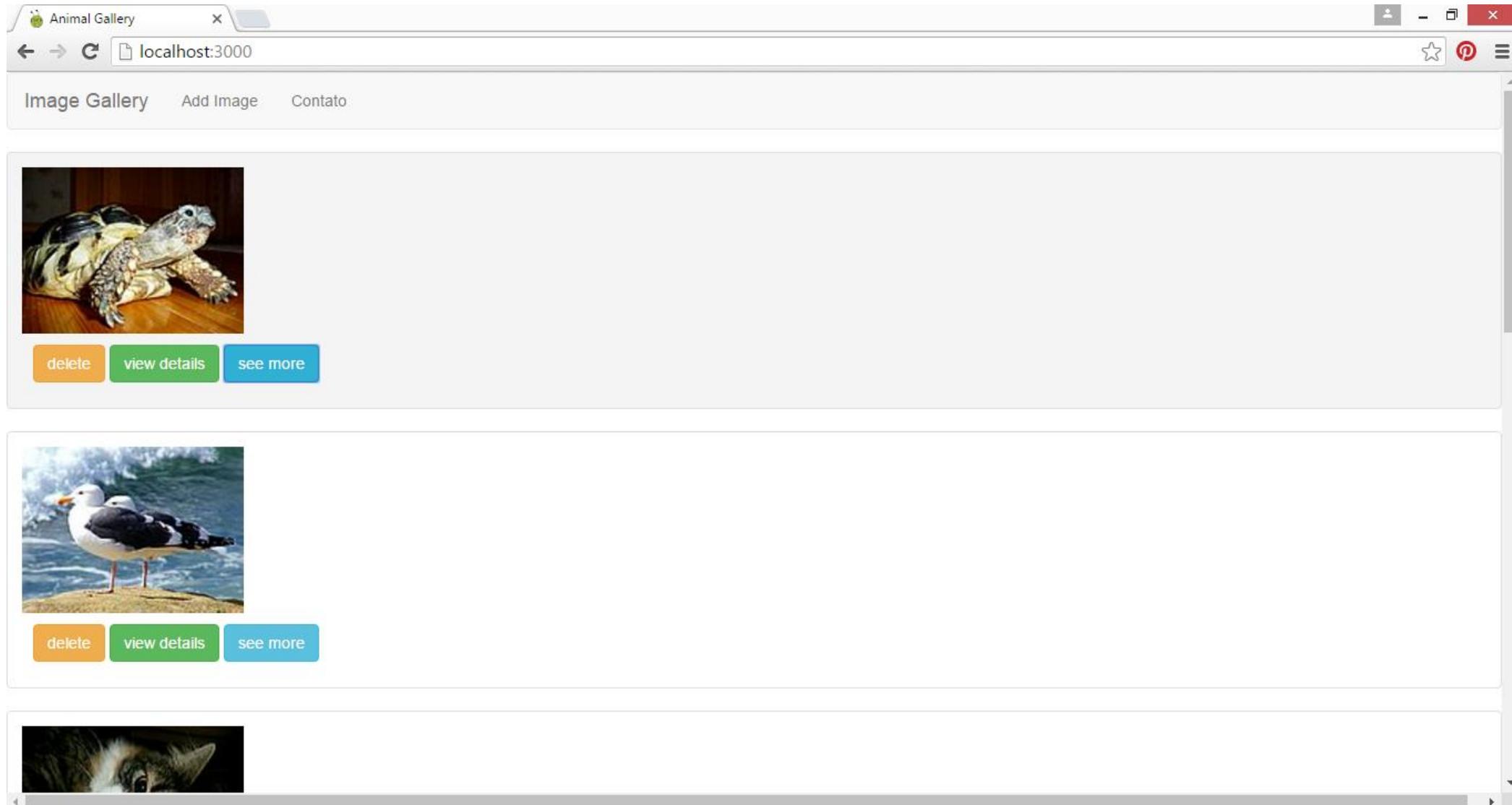
delete view details see more



delete view details see more



2. Faça funções para acender e apagar o background da “janela” de cada imagem quando o usuário passar o mouse por cima/ sair de cima.

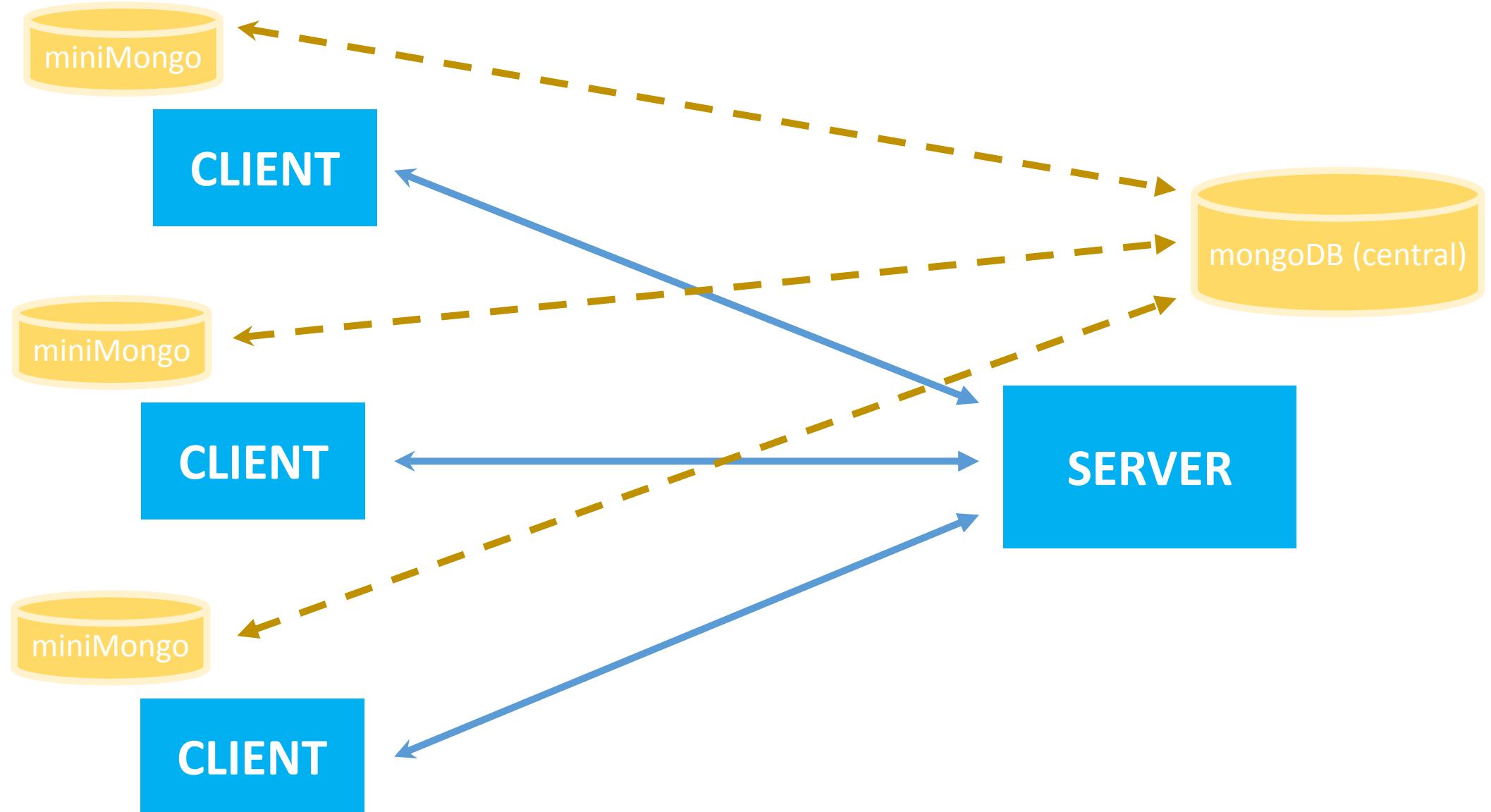


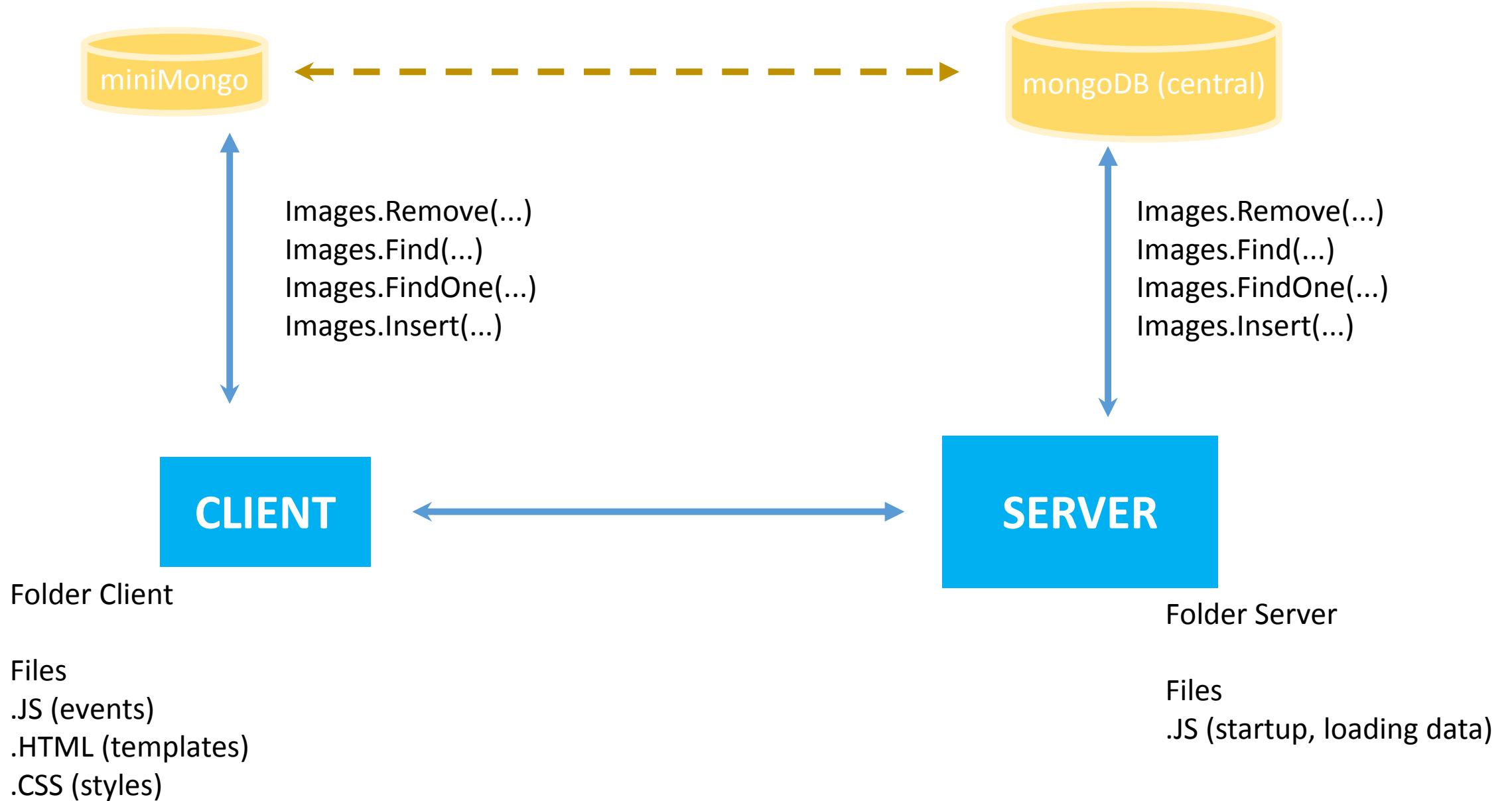
3. Faça função que mostre atributos da imagem quando usuário clicar no botão azul “see more”.

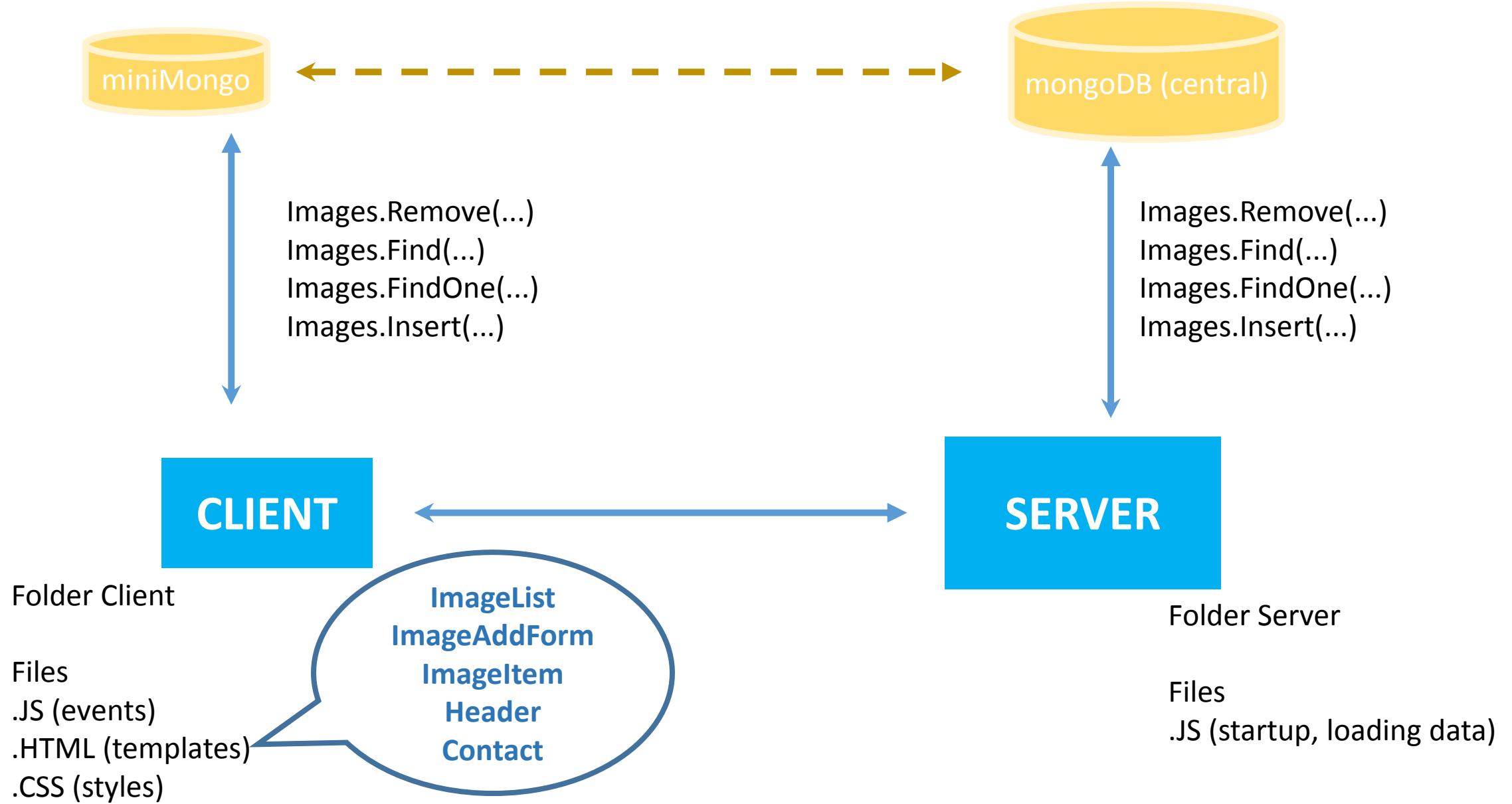
The screenshot displays a web application titled "Animal Gallery" running on "localhost:3000". The interface includes a header with "Image Gallery", "Add Image", and "Contato" links, and a toolbar with standard browser controls. The main content area shows a grid of images. The first image in the grid is a turtle, with three buttons below it: "delete" (orange), "view details" (green), and "see more" (blue). The "see more" button is currently highlighted. To the right of the image, its details are shown: "image title1", "Author: image author1", and "Alt: image number1". Below this section, another image of two seagulls is visible. The browser window has scroll bars on the right and bottom, indicating a larger content area.

6 – Showing item details











CLIENT

HTML Templates

ImageList
(js-del-image, js-view-image)

click

click

Images.Remove

Images.FindOne

ImageAddForm
(js-add-image)

submit

Images.Insert

JS Events

HTML Templates

ImageList
(js-del-image, js-view-image)

click

Images.Remove

Images.FindOne

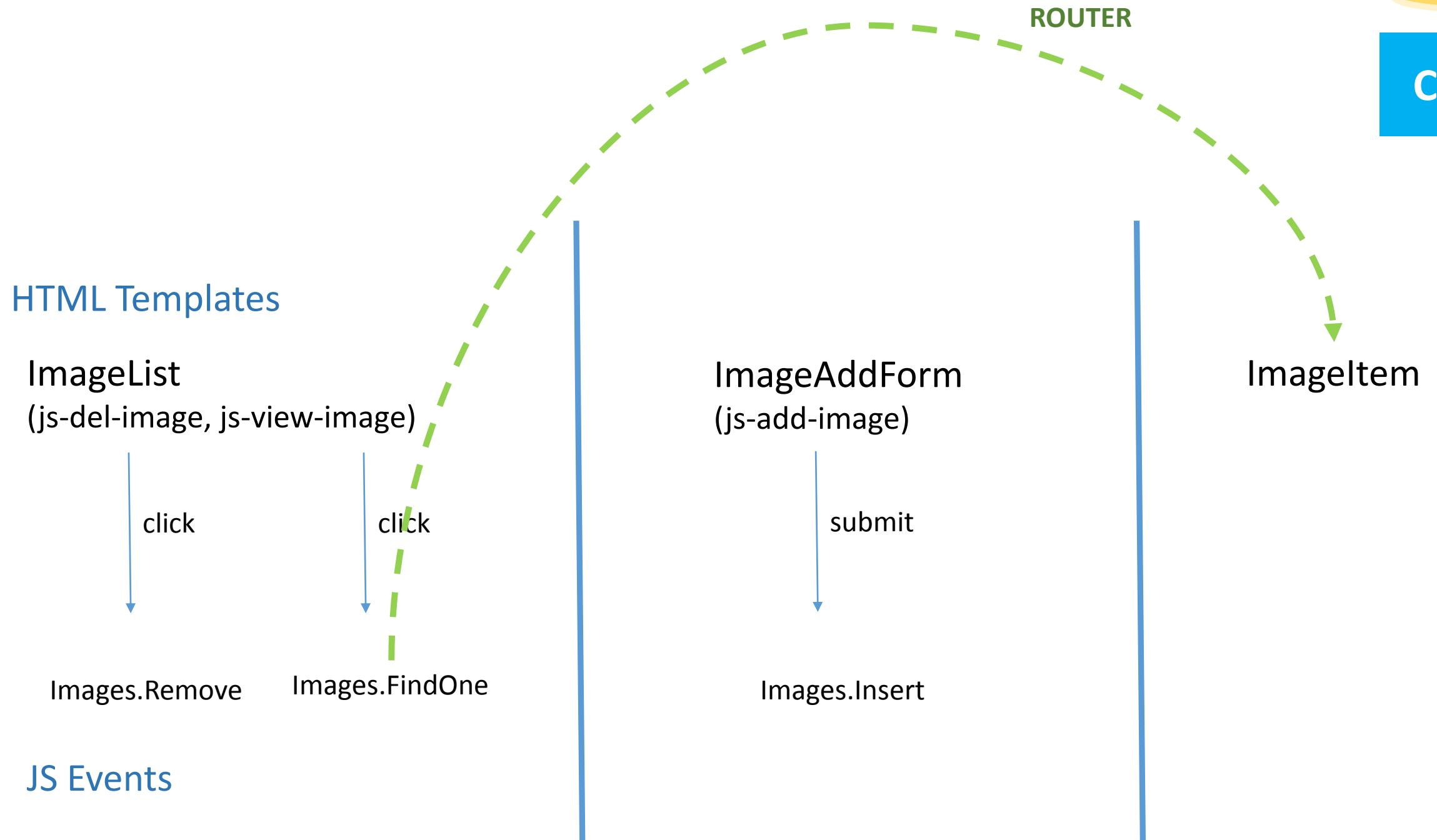
ROUTER

ImageAddForm
(js-add-image)

submit

Images.Insert

JS Events



Create your application, install Bootstrap and Router

- Windows command prompt:

- > cd dev
- > meteor create myproject
- > cd myproject
- > meteor add twbs:bootstrap
- > meteor add iron:router
- > meteor

Client/ main.html

C:\dev\ex10new\client\main.html - Sublime Text 2 (L)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html * startup.js * main.js *

```
10
11 <template name="imagelist">
12 <div class="row">
13 {{#each images}}
14
15 <div class="col-xs-12 col-md-3">
16   <div class="thumbnail">
17
18     
19
20     <div class="caption">
21       <h3> {{img_title}}</h3>
22       <p> {{img_author}}</p>
23       <button class="js-del-image btn btn-warning"> delete </button>
24       <button class="js-view-image btn btn-success"> view </button>
25     </div>
26   </div>
27 </div> <!-- /row -->
28
29 {{/each}}
30 </div> <!-- /row -->
31 </template>
32
33
```

61 characters selected Tab Size: 4 HTML

C:\dev\ex10new\client\main.js - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html x startup.js x main.js x

```
10 Template.imagelist.events({
11   'click .js-image':function(event){
12     var image_id = this._id;
13     var image_src = this.img_src;
14     console.log("You clicked on image " + image_id + " - " + image_src);
15   },
16   'click .js-del-image':function(event){
17     var image_id = this._id;
18     var image_src = this.img_src;
19     console.log("You deleted the image " +image_id + " - " + image_src);
20     //delete
21     Images.remove({_id:image_id});
22   },
23   'click .js-view-image':function(event){
24     var image_id = this._id;
25     console.log("view image detail, id image: " + image_id);
26     Router.go('/image/' + image_id);
27     return false;
28   }
29 },
30 'click .js-view-image':function(event){
31   var image_id = this._id;
32   console.log("view image detail, id image: " + image_id);
33   Router.go('/image/' + image_id);
34   return false;
35 }
36 }
37 }
38 }
39 }
40 }
41 }
42 }
```

Client/ main.js

9 lines, 219 characters selected Spaces: 2 JavaScript

C:\dev\ex10new\client\main.js - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html x startup.js x main.js x

```
106 Router.route('/imageadd', function () {  
107     this.render('header',{  
108         to:"header-area"  
109     });  
110     this.render('imageaddform',{  
111         to:"main-area"  
112     });  
113 };  
114  
115 Router.route('/contact', function () {  
116     this.render('header',{  
117         to:"header-area"  
118     });  
119     this.render('contact',{  
120         to:"main-area"  
121     });  
122 };  
123  
124  
125 Router.route('/image/:_id', function () {  
126     this.render('header',{  
127         to:"header-area"  
128     });  
129     this.render('imageitem',{  
130         to:"main-area",  
131         data:function(){  
132             return Images.findOne({_id:this.params._id});  
133         }  
134     });  
135 });
```

11 lines, 232 characters selected Spaces: 2 JavaScript

Client/ main.js

Route Parameters

Routes can have variable parameters. For example, you can create one route to show any image with an id. The id is variable depending on the image you want to see such as "/image/1" or "/image/2".

To declare a named parameter in your route use the : syntax in the url followed by the parameter name. When a user goes to that url, the actual value of the parameter will be stored as a property on this.params in your route function.

Client/ main.html

C:\dev\ex10new\client\main.html - Sublime Text 2 (UNR)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html * startup.js * main.js *

```
48
49 <template name="imageitem">
50
51 ▼ <div class="container">
52     <h3>Image Details</h3>
53     <hr>
54     <div class="caption">
55         <p> Title = {{img_title }}</p>
56         <p> Author = {{img_author }}</p>
57         <p> Alt = {{img_alt }}</p>
58         <p> Source = {{img_src}}</p>
59         <a href="/">Back to image list</a>
60     </div>
61 </div>
62
63 </template>
64
```

27 characters selected Tab Size: 4 HTML

M Ingresso Rápido - Venda × Animal Gallery × 160px-Polarbrown-2.jpg × Nova guia ×

localhost:3000

Image Gallery Add Image Contato



image title1

image author1

[delete](#) [view](#)



image title2

image author2

[delete](#) [view](#)



image title3

image author3

[delete](#) [view](#)



image title4

image author4

[delete](#) [view](#)



image title5

image author5

[delete](#) [view](#)



image title6

image author6

[delete](#) [view](#)



image title7

image author7

[delete](#) [view](#)



image title8

image author8

[delete](#) [view](#)

A screenshot of a web browser window displaying an image details page. The browser has four tabs open: 'Ingresso Rápido - V', 'Animal Gallery', '160px-Polarbrown-', and 'Nova guia'. The active tab shows the URL <localhost:3000/image/4ZtawotGKWk99TjFb>. The page content includes a header with 'Image Gallery', 'Add Image', and 'Contato' links, followed by a section titled 'Image Details' containing the following metadata:

Title = image title1
Author = image author1
Alt = image number1
Source = img1.jpg

[Back to image list](#)

6 – Editing an item

Animal Gallery

localhost:3000

Image Gallery Add Image Contato



image title22

edit add edit remove



image title3

edit add edit remove



image title4

edit add edit remove



image title5

edit add edit remove



image title6

edit add edit remove

Animal Gallery

localhost:3000/image/DgMm57F43H6mLqAwT

Image Gallery

Add Image

Contato

Image Details



Title = image title22

Author = image author22

Alt = image number22

[Back to image list](#)

Animal Gallery ×

localhost:3000

Image Gallery Add Image Contato



image title22

image title22

Author: image author22

Alt: image number22



image title3



image title4



Animal Gallery

localhost:3000/imageeditform/DgMm57F43H6mLqAwT

Image Gallery Add Image Contato

Image Edit Form

Title:

Author:

Alt:

Source:

save

Animal Gallery

localhost:3000

Image Gallery Add Image Contato



image title3



image title4

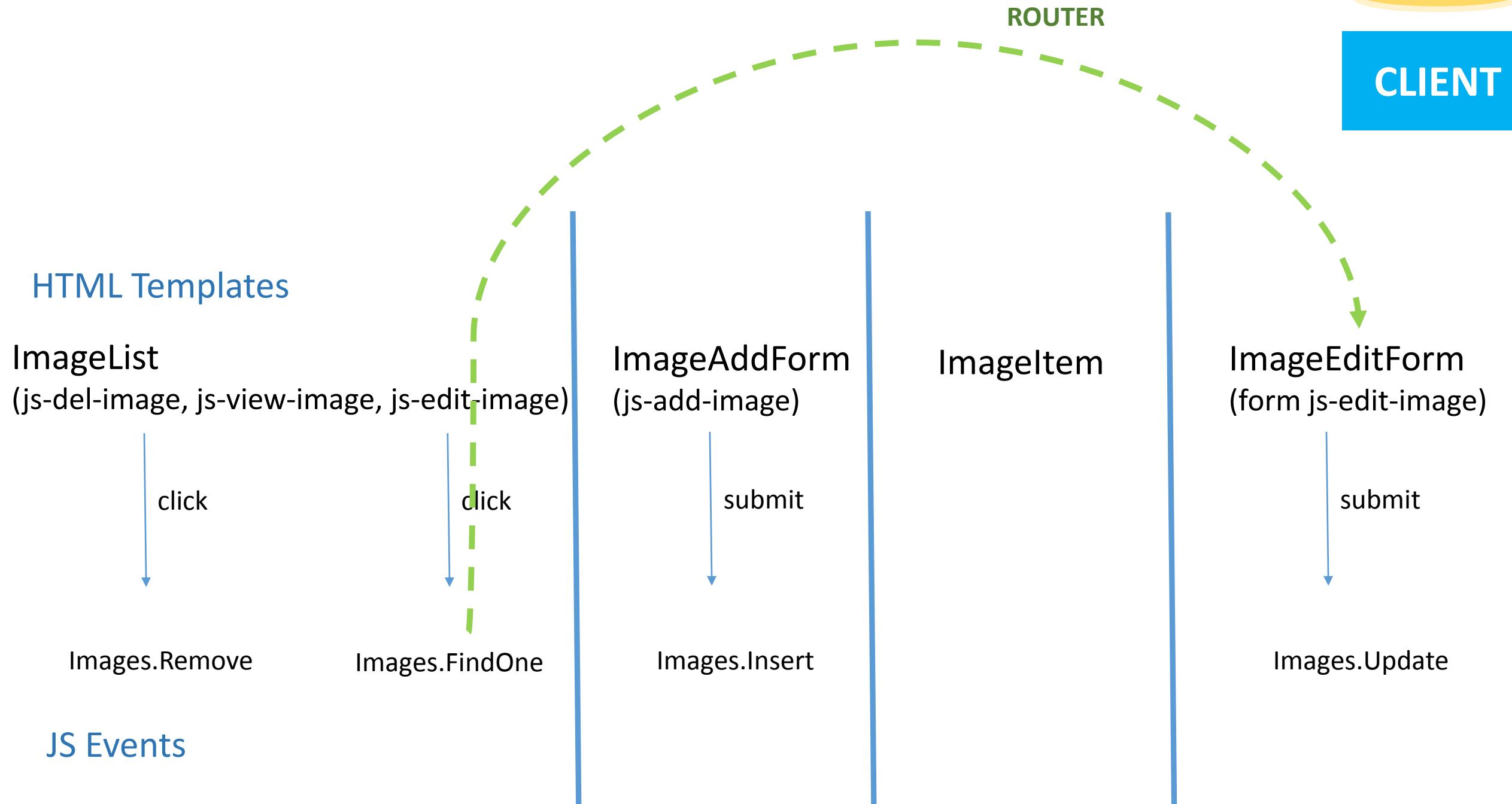


image title5

+ info edit remove

+ info edit remove

+ info edit remove



Client/ main.html



A screenshot of a Sublime Text 2 window titled "C:\dev\ex12new\client\main.html • - Sublime Text 2 (UNREGISTERED)". The window shows the following code:

```
1 <head>
2   <title>Animal Gallery</title>
3 </head>
4
5 <template name="ApplicationLayout">
6   {{>}yield "header-area"}}
7   {{>}yield "main-area"}}
8 </template>
9
```

The status bar at the bottom left says "Line 17, Column 14". The status bar at the bottom right says "Tab Size: 4" and "HTML". A sidebar on the right shows a tree view of the project structure.

```
main.html
  o </template>
  9
 10
11 <template name="imagelist">
12 <div class="row">
13   {{#each images}}
14
15   <div class="col-xs-12 col-md-12">
16
17     <!-- adaptar a apresentacao para mostrar cada imagem em uma linha -->
18     <div class="thumbnail js-light-image" id="{{_id}}>
19
20       <div class="caption">
21          {{img_title}}
22         <span class="actions">
23           <button type="button" class="js-view-image btn btn-default"> <span class="glyphicon glyphicon-info-sign"></span> </button>
24           <button type="button" class="flip btn btn-default"> <span class="glyphicon glyphicon-plus"></span></button>
25           <button type="button" class="js-edit-image btn btn-default"> <span class="glyphicon glyphicon-pencil"></span> </button>
26           <button type="button" class="js-del-image btn btn-default"><span class="glyphicon glyphicon-remove"></span></button>
27         </span>
28         <div class="panel" id="panel{{_id}}>
29           <h3> {{img_title}}</h3>
30           <p> Author: {{img_author}}</p>
31           <p> Alt: {{img_alt}}</p>
32         </div>
33       </div>
34
35     </div>
36
37   </div> <!-- /col -->
38
39   {{/each}}
40 </div> <!-- /row -->
41 </template>
```

Client/ main.html

Template imagelist

Client/ main.html

Template imageaddform



The screenshot shows the Sublime Text editor with the file 'main.html' open. The code defines a template named 'imageaddform' containing a form for adding an image with fields for title, author, alt, and source, and a save button. The code is color-coded for syntax highlighting.

```
42
43
44 <template name="imageaddform">
45   <div class="container">
46     <h3>Image Add Form</h3>
47     <form class="js-add-image">
48       Title: <input type="text" name="title"/><br/><br/>
49       Author: <input type="text" name="author"/> <br/><br/>
50       Alt: <input type="text" name="alt"/><br/><br/>
51       Source: <input type="text" name="src"/><br/><br/>
52       <button type="submit" class="btn btn-success" >save </
53         button>
54     </form>
55   </div>
56 </template>
57
58
```

Line 11, Column 14 Tab Size: 4 HTML

Client/ main.html

Template imageitem



The screenshot shows the Sublime Text editor interface with the following details:

- Title Bar:** C:\dev\ex12new\client\main.html • - Sublime Text
- Menu Bar:** File Edit Selection Find View Goto Tools Project Preferences
- File Tab:** main.html
- Code Content:**

```
59 <template name="imageitem">
60
61 <div class="container">
62     <h3>Image Details</h3>
63     <hr>
64     <div class="caption">
65         <p>  </p>
66         <p> Title = {{img_title }}</p>
67         <p> Author = {{img_author }}</p>
68         <p> Alt = {{img_alt }}</p>
69         <a href="/">Back to image list</a>
70     </div>
71 </div>
72
73 </template>
```
- Status Bar:** Line 11, Column 14 | Tab Size: 4 | HTML

File Edit Selection Find View Goto Tools Project Preferences Help

main.html

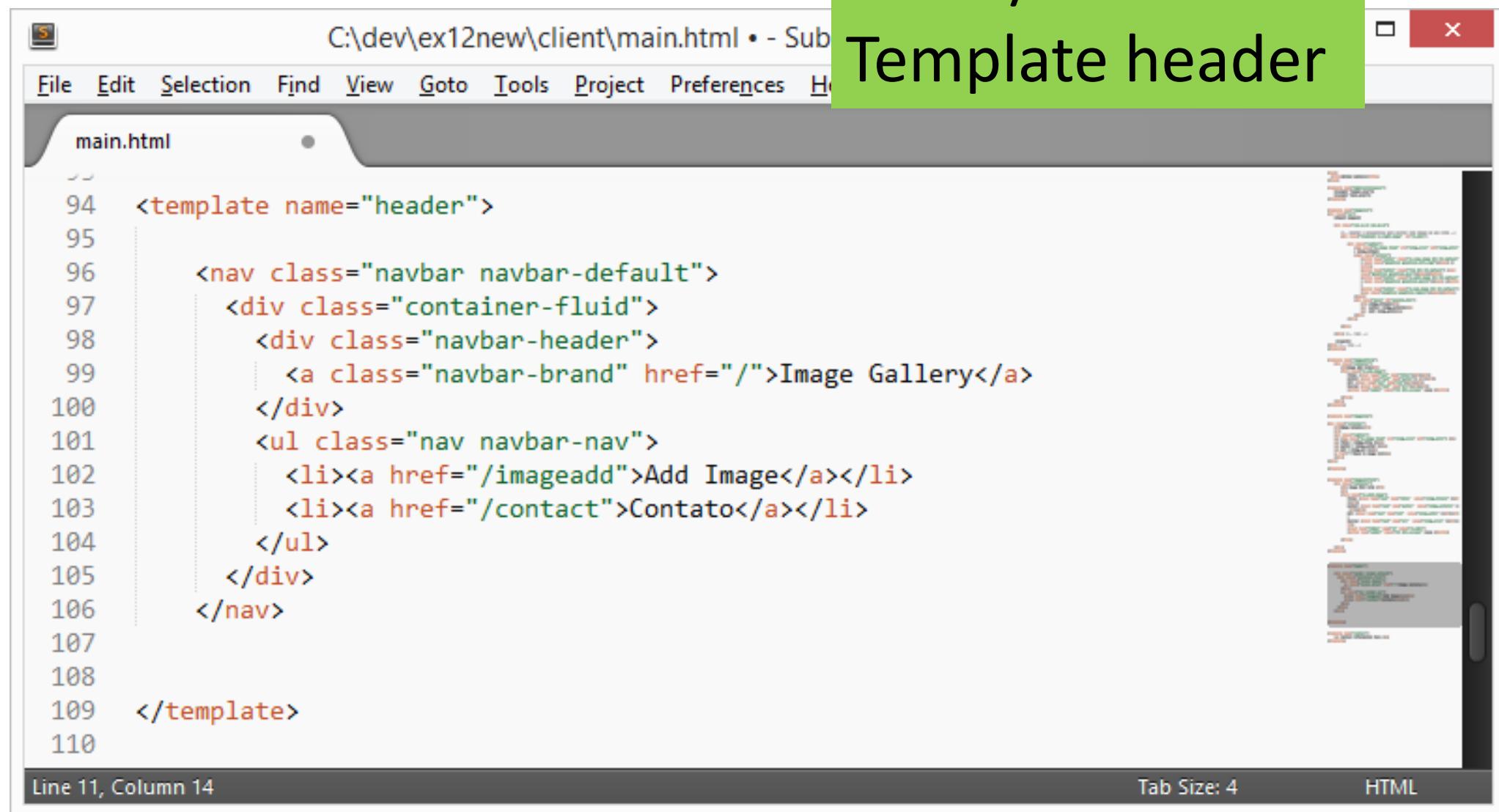
```
75
76  <template name="imageeditform">
77      <div class="container">
78          <h3> Image Edit Form </h3>
79          <hr>
80          <form class="js-edit-image">
81              Title: <input type="text" name="title" value="{{img_title}}><br/><br/>
82              Author: <input type="text" name="author" value="{{img_author}}><br/><br/>
83              Alt: <input type="text" name="alt" value="{{img_alt}}><br/><br/>
84              Source: <input type="text" name="src" value="{{img_src}}><br/><br/>
85              <input type="hidden" name="id" value="{{_id}}>
86              <button type="submit" class="btn btn-success">save </button>
87
88      </form>
89
90  </div>
91  </template>
```

Client/ main.html

Template imageeditform

Client/ main.html

Template header



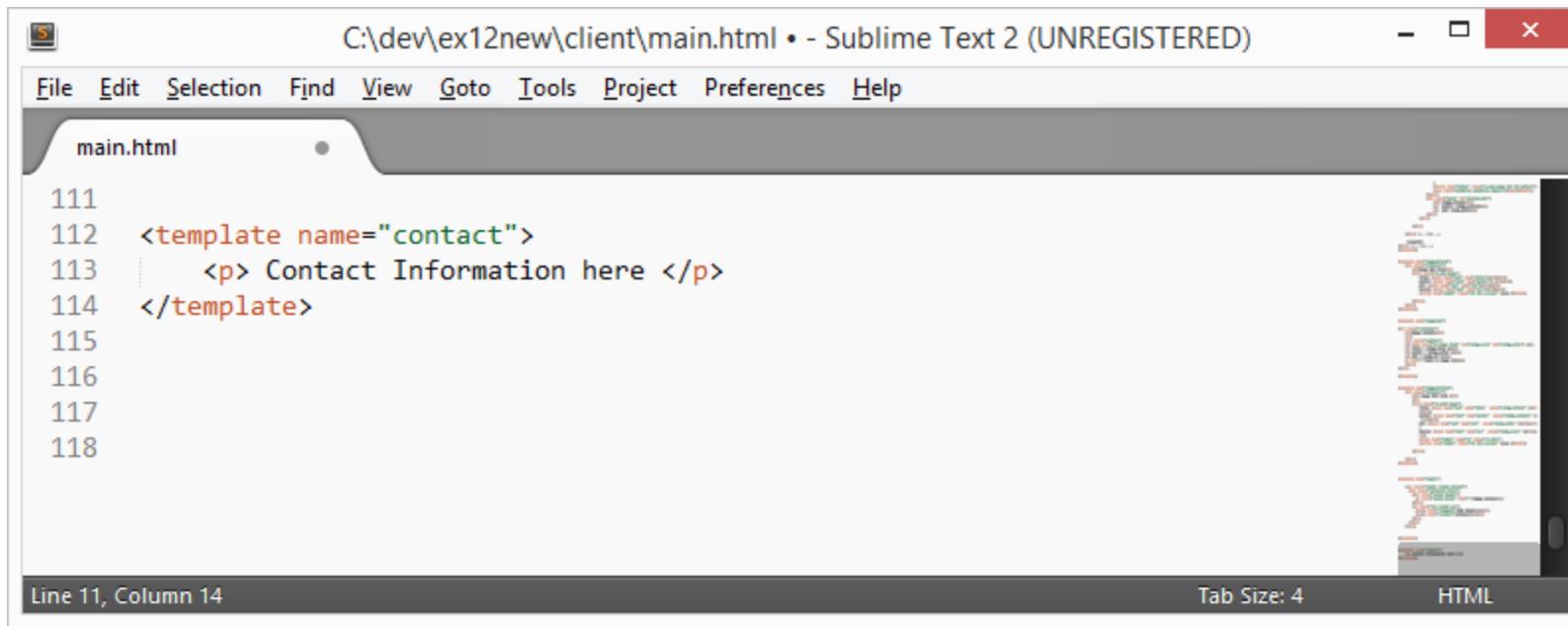
The screenshot shows a code editor window with the file 'main.html' open. The code defines a template named 'header' containing a navigation bar with links to 'Image Gallery', 'Add Image', and 'Contato'. The code is color-coded for syntax highlighting.

```
94 <template name="header">
95
96     <nav class="navbar navbar-default">
97         <div class="container-fluid">
98             <div class="navbar-header">
99                 <a class="navbar-brand" href="/">Image Gallery</a>
100            </div>
101            <ul class="nav navbar-nav">
102                <li><a href="/imageadd">Add Image</a></li>
103                <li><a href="/contact">Contato</a></li>
104            </ul>
105        </div>
106    </nav>
107
108
109 </template>
110
```

Line 11, Column 14 Tab Size: 4 HTML

Client/ main.html

Template contact



C:\dev\ex12new\client\main.html • - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html

```
111
112 <template name="contact">
113     <p> Contact Information here </p>
114 </template>
115
116
117
118
```

Line 11, Column 14 Tab Size: 4 HTML

Client/.js Routing

C:\dev\ex12new\client\main.js - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html main.js

```
187 // ****
188 // Routing
189 Router.configure({
190   layoutTemplate:'ApplicationLayout'
191 });
192
193 Router.route('/', function () {
194   this.render('header',{
195     to:"header-area"
196   });
197   this.render('imagelist',{
198     to:"main-area"
199   });
200 });
201
202 Router.route('/imageadd', function () {
203   this.render('header',{
204     to:"header-area"
205   });
206   this.render('imageaddform',{
207     to:"main-area"
208   });
209 });
210
211 Router.route('/contact', function () {
212   this.render('header',{
213     to:"header-area"
214   });
215   this.render('contact',{
216     to:"main-area"
217   });
218 });
219
220
221 Router.route('/image/:_id', function () {
222   this.render('header',{
223     to:"header-area"
224   });
225   this.render('imageitem',{
226     to:"main-area",
227     data:function(){
228       return Images.findOne({_id:this.params._id});
229     }
230   });
231 });
232
```

Line 1, Column 1

Spaces: 2 JavaScript

C:\dev\ex12new\client\main.js - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html main.js

```
232 |
233
234 Router.route('/imageeditform/:_id', function () {
235   this.render('header',{
236     to:"header-area"
237   });
238   this.render('imageeditform',{
239     to:"main-area",
240     data:function(){
241       return Images.findOne({_id:this.params._id});
242     }
243   });
244 });
245 });

Line 232, Column 1
```

Spaces: 2 JavaScript

```
1 // Helpers Imagelist - mostrando as imagens de acordo com a ordem de cadastro
2 Template.imagelist.helpers({
3     images:Images.find(
4         {},{sort:{createdOn:-1}})
5 });
6
7
8
9 // Treating events - template imagelist
10 Template.imagelist.events({
11
12     'click .js-image':function(event){
13
14         var image_id = this._id;
15         var image_src = this.img_src;
16         console.log("You clicked on image " + image_id + " - " + image_src);
17     },
18
19     'click .js-del-image':function(event){
20
21         var image_id = this._id;
22         var image_src = this.img_src;
23         console.log("You deleted the image " +image_id + " - " + image_src);
24
25         //delete
26         Images.remove({_id:image_id});
27
28     },
29
30     'click .js-view-image':function(event){
31
32         var image_id = this._id;
33
34         console.log("view image detail, id image: " + image_id);
35         Router.go('/image/' + image_id);
36         return false;
37     },
38 },
39
40 })
```

Client/.js Imagelist - events

Client/.js Imagelist - events

The screenshot shows a Sublime Text 2 window with the title bar "C:\dev\ex12new\client\main.js • - Sublime Text 2 (UNR)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. Below the menu is a tab bar with "main.html" and "main.js". The main editor area contains the following code:

```
40
41
42
43 // Edit a image
44 'click .js-edit-image':function(event){
45
46     var image_id = this._id;
47
48     console.log("edit image detail, id image: " + image_id);
49     Router.go('/imageeditform/'+image_id);
50     return false;
51
52 },
53
```

The status bar at the bottom shows "Line 41, Column 1", "Spaces: 2", and "JavaScript". A sidebar on the right displays a tree view of files and folders.

C:\dev\ex12new\client\main.js • - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

main.html main.js

```
93 // Treating events - template imageaddform
94 Template.imageaddform.events({
95
96     'submit .js-add-image':function(event){
97
98         //problem though since our page still refreshes whenever the form is submitted
99         event.preventDefault();
100
101        var image_title;
102        var image_author;
103        var image_alt;
104        var image_id = this._id;
105        var image_src = this.img_src;
106
107        image_title = event.target.title.value;
108        image_author = event.target.author.value;
109        image_alt = event.target.alt.value;
110        image_src = event.target.src.value;
111
112        // validate form field
113        if(!image_title)
114        {
115
116            alert("You have to inform the title");
117            Router.go('/imageadd');
118            return false;
119
120        }
121
122        console.log("Adding Image - title: "+image_title + " author: "+image_author+ " source: "
123        +image_src+ " alt: "+image_alt);
124
125        Images.insert({
126            img_title:image_title,
127            img_author:image_author,
128            img_alt:image_alt,
129            img_src:image_src,
130            createdOn: new Date()
131        });
132
133        console.log("Success ! Add Image - Title: "+image_title+" Author:"
134        +image_author + " Source:"+image_src + ".");
135
136        Router.go('/');
137        return false;
138    }
}
```

Line 112, Column 26

Spaces: 2

JavaScript

Client/.js

Imageaddform - events



main.html • main.js

```
144 // Treating events - template image_edit_form
145 Template.imageeditform.events({
146
147     'submit .js-edit-image':function(event){
148
149         var image_id;
150         var image_title;
151         var image_alt;
152         var image_author;
153         var image_src;
154
155         image_id = event.target.id.value;
156         image_title = event.target.title.value;
157         image_author = event.target.author.value;
158         image_alt = event.target.alt.value;
159         image_src = event.target.src.value;
160
161
162         console.log("Edit Image - title: "+image_title+" author:"+image_author);
163
164         Images.update({_id:image_id},
165             {img_title: image_title, img_author:image_author, img_alt:image_alt, img_src:image_src});
166
167
168         alert("Success ! Edit Image - Title: "+image_title+" Author:"+image_author + ".");
169
170         Router.go('/');
171         return false;
172
173     }
174 })
175 // end template.imageeditform.events
176
```

Client/.js

Imageeditform - events

Imagenes e... X 3 Google Age X 3 Google Age X Animal Gall... X meteor find X meteor mo... X how do i qu... X MongoDB C... X How do I q... X db.collectio... X

localhost:3000

Image Gallery Add Image Contato

Keyword: 222

image title1

Info + Edit X

search image with keyword: 222 main.js:89
Session estah setado com 222 main.js:16
Search String /222/ main.js:17
> Images.find({title:/image/})
< L...n.Cursor {collection: LocalCollection, sorter: null,
▼ matcher: M...o.Matcher, _selectorId: undefined, skip:
undefined...} ↓
► _projectionFn: function (obj)
_selectorId: undefined
_transform: null
▼ collection: LocalCollection
► _docs: LocalCollection._IdMap
► _idParse: function (id)
► _idStringify: function (id)
▼ _map: Object
► Ao4Xunn4hDThKevNm: Object
_id: "Ao4Xunn4hDThKevNm"
img_alt: "image number2"
img_author: "image author2"
img_src: "img2.jpg"
img_title: "image title2"
► __proto__: Object
► DhhYTxuvvfzkZscs: Object
► bFhZawCd3Q8WoveX2: Object
► eX8Nb9dck8EjyqJgr: Object
► o9un9T9bdEP8Jv4qZ: Object
► oPFu8NktiZyZRxaEK: Object
► roQwLCstSDxC6Q2RE: Object
► wPgEzRje7J7sWztCT: Object
► ...: Object

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