</talentlabs>

Express Lecture 5

Basic Express Routing

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Agenda

- CSS and Bootstrap
- A link to the other page
- Apply request parameter

CSS and Bootstrap

Add Bootstrap

Copy and paste the starter template provided by Bootstrap:
https://getbootstrap.com/docs/5.1/getting-started/introduction/#starter-template

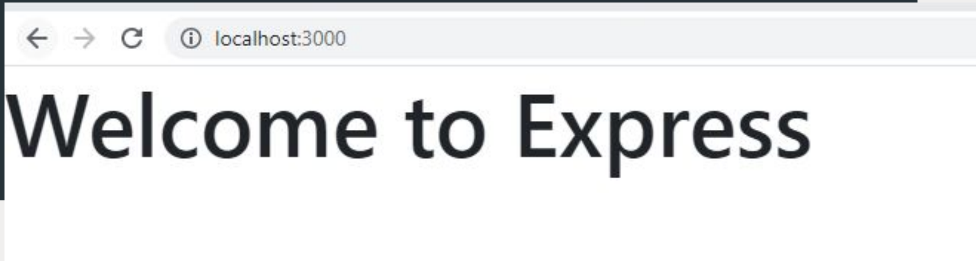
index.ejs

```html
<!doctype html>
<html lang="en">
  <head>

    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">


    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p/We"
crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>


    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.bundle.min.js" integrity="sha384-U1DAWAznBHeqEIlVSCgzq+c9gqGAJn5c/t99JyeKa9xxaYpSvHU5awsuZVVFIhvj"
crossorigin="anonymous"></script>
  </body>
</html>
```

Add back the EJS Template Tags

index.ejs

```
<!doctype html>
<html lang="en">

<head>

  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">


  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p/We" crossorigin="anonymous">

  <title><%= title %></title>
</head>

<body>
  <h1>Welcome to <%= title %></h1>


  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-U1DAWAznBHeqEIlVSCgzq+c9gqGAJn5c/t99JyeKa9xxaYpSvHU5awsuZVVFIhvj"
    crossorigin="anonymous"></script>
</body>

</html>
```

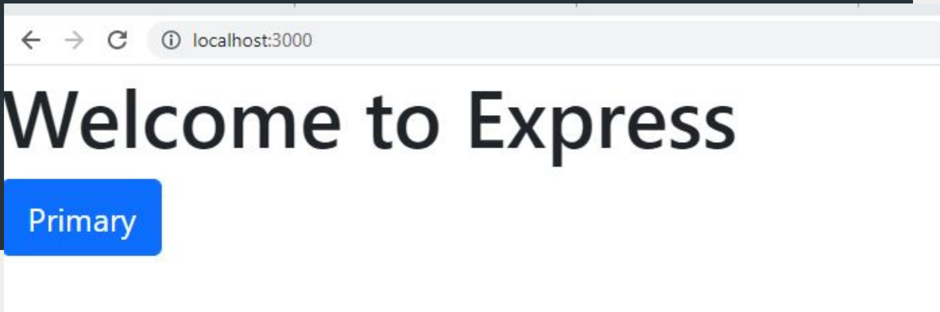


Welcome to Express

Express Components

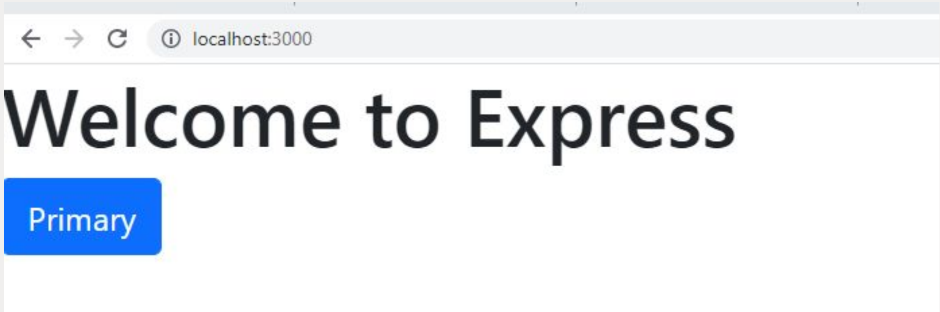
index.ejs

```
<!doctype html>
<html lang="en">

<head>

  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">


  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p/We" crossorigin="anonymous">

  <title><%= title %></title>
</head>

<body>
  <h1>Welcome to <%= title %></h1>
  <button type="button" class="btn btn-primary">Primary</button>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-U1DAWAznBHeqEIlVSCgzq+c9gqGAJn5c/t99JyeKa9xxaYpSvHU5awsuZVVFIhvj"
    crossorigin="anonymous"></script>
</body>

</html>
```



Express Components - Button

```
<button type="button" class="btn btn-primary">Primary</button>
```

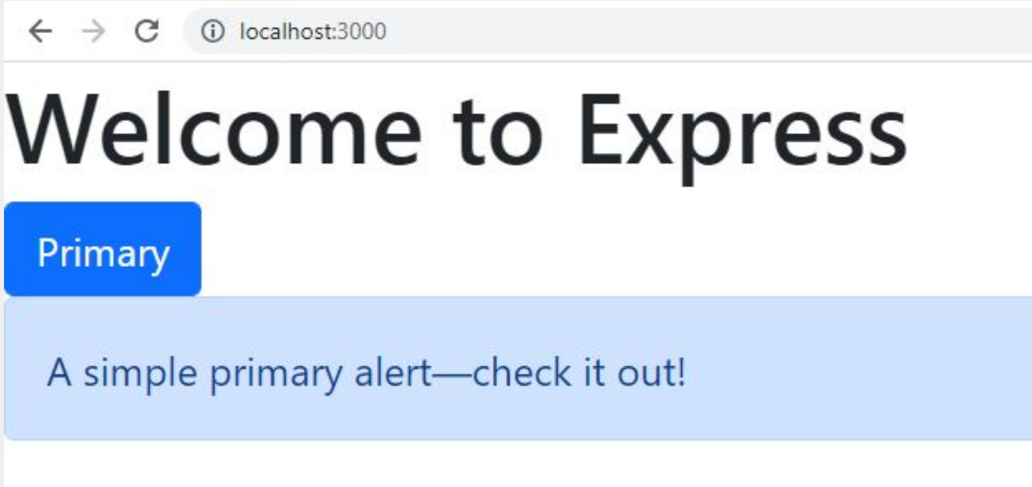


localhost:3000

Welcome to Express

Express Components - Alert

```
<div class="alert alert-primary" role="alert">
  A simple primary alert—check it out!
</div>
```

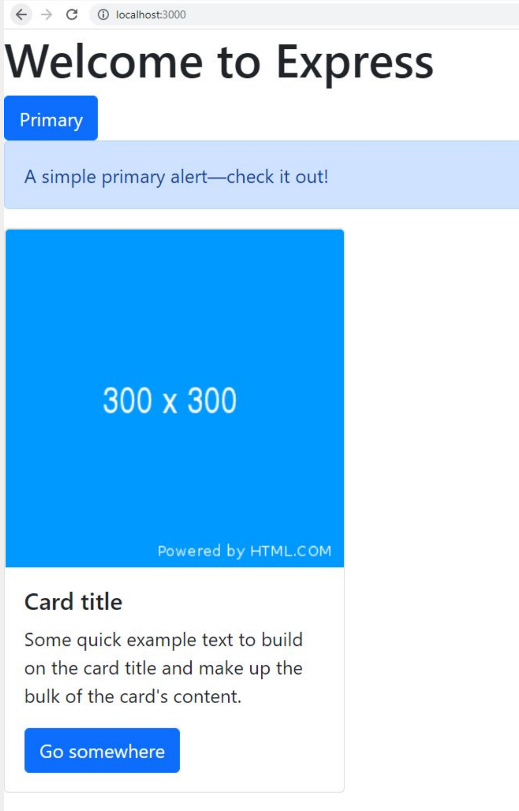


Welcome to Express

A simple primary alert—check it out!

Express Components - Card

```
<div class="card" style="width: 18rem;">
    <img src="https://via.placeholder.com/300.png/09f/fff" class="card-img-top" alt="...">
    <div class="card-body">
      <h5 class="card-title">Card title</h5>
      <p class="card-text">Some quick example text to build on the card title and make up the
bulk of the card's content.
      </p>
      <a href="#" class="btn btn-primary">Go somewhere</a>
    </div>
  </div>
```



Welcome to Express

A simple primary alert—check it out!

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Summary

- To use Bootstrap with Express Template, we need to add the CSS and JS tags.
  - https://getbootstrap.com/docs/5.1/getting-started/introduction/#starter-template
- Next, we can follow the examples in the Bootstrap Components page to design the look.
  - https://getbootstrap.com/docs/5.1/components/buttons/

A link to the other page

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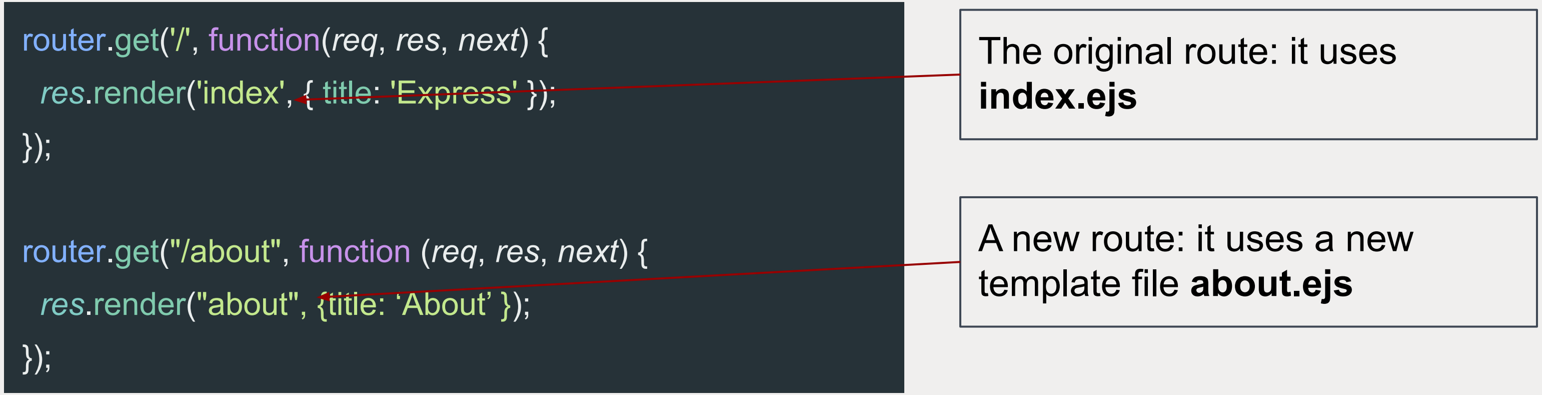
Create a new route with a new HTML template

index.js



```
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});

router.get("/about", function (req, res, next) {
  res.render("about", {title: ‘About’ });
});
```

The original route: it uses **index.ejs**

A new route: it uses a new template file **about.ejs**

Create a new route with a new HTML template

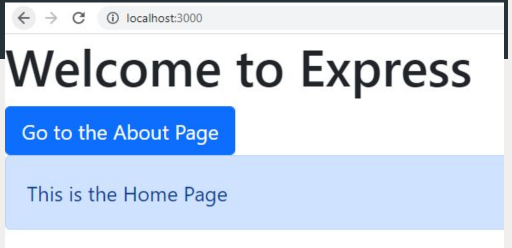
index.js

```
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});

router.get("/about", function (req, res, next) {
  res.render("about", {title: ‘About’);
});
```

index.ejs

```
<h1>Welcome to <%= title %></h1>
<button type="button" class="btn btn-primary">Go to the About Page</button>
<div class="alert alert-primary" role="alert">
  This is the Home Page
</div>
```



localhost:3000

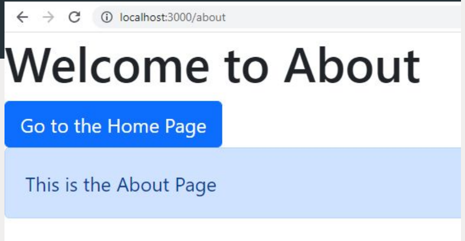
Welcome to Express

Go to the About Page

This is the Home Page

about.ejs

```
<h1>Welcome to <%= title %></h1>
<button type="button" class="btn btn-primary">Go to the Home Page</button>
<div class="alert alert-primary" role="alert">
  This is the About Page
</div>
```



localhost:3000/about

Welcome to About

Go to the Home Page

This is the About Page

Set up the <a>

index.ejs

```
<h1>Welcome to <%= title %></h1>
<a href="/about" type="button" class="btn btn-primary">Go to the About Page</a>
<div class="alert alert-primary" role="alert">
  This is the Home Page
</div>
```

about.ejs

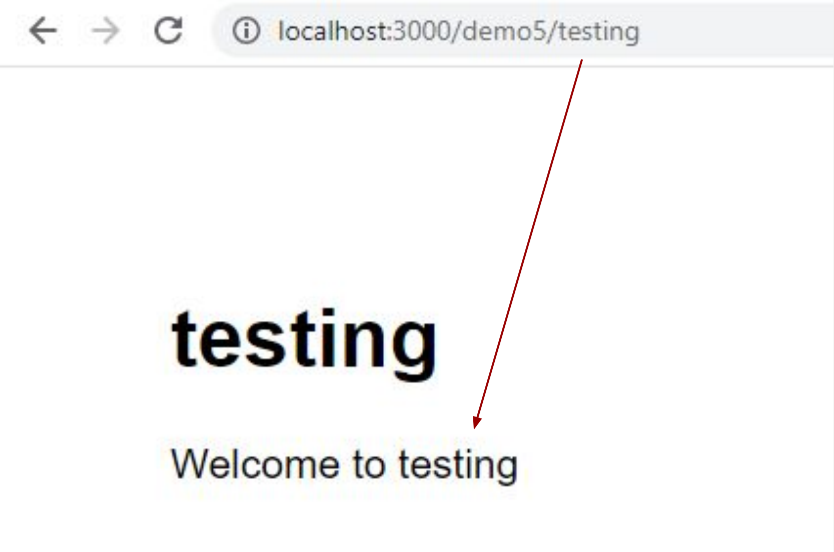
```
<h1>Welcome to <%= title %></h1>
<a href="/" type="button" class="btn btn-primary">Go to the Home Page</a>
<div class="alert alert-primary" role="alert">
  This is the About Page
</div>
```

Summary

- To set up a multi page website we need to
  - Add a new **route** to match the new url.
  - Add a new **view (EJS template)** to display new content.
  - Add **<a> links** to link up the navigation.

Apply Request Parameter

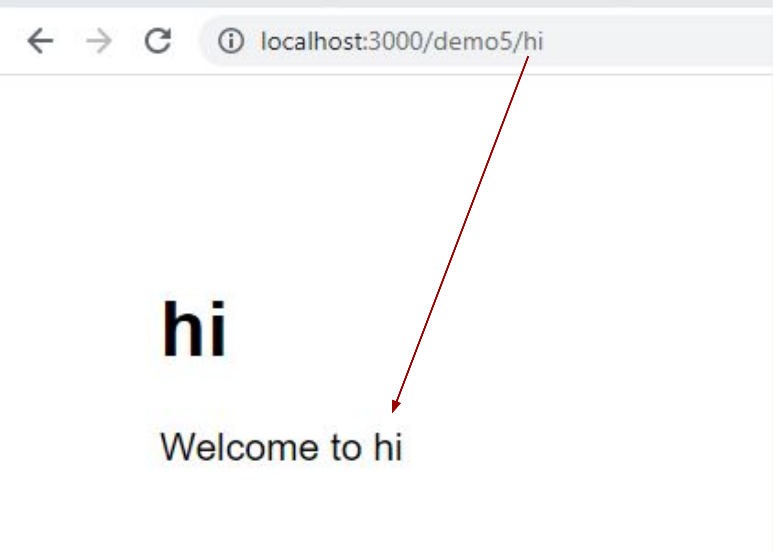
```
router.get("/demo5/:a", function (req, res, next) {
  console.log("URL Params", req.params);
  console.log("Queries", req.query);
  res.render("index", { title: req.params["a"] });
});
```



localhost:3000/demo5/testing

testing

Welcome to testing



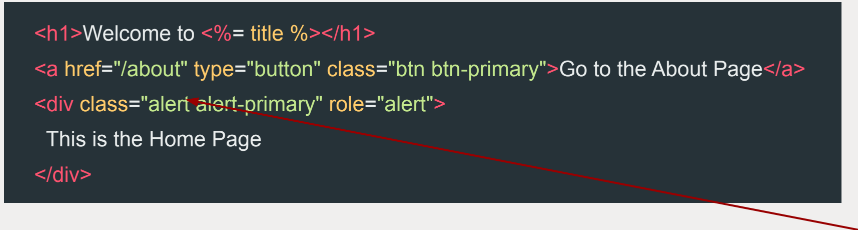
localhost:3000/demo5/hi

hi

Welcome to hi

In the previous lecture, we talked about we can **pass the request parameters to the rendering context**.

index.ejs



```
<h1>Welcome to <%= title %></h1>
<a href="/about" type="button" class="btn btn-primary">Go to the About Page</a>
<div class="alert alert-primary" role="alert">
  This is the Home Page
</div>
```

To set up a multi page website we need to

- Add a new **route** to match the new url.
- Add a new **view (EJS template)** to display new content.
- Add **<a> links** to link up the navigation.

This is for a static page only!!
No request params yet :)

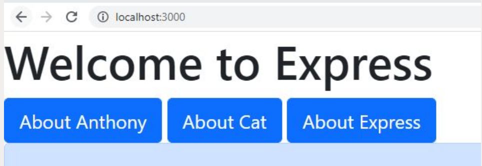
We updated the <a> link in index.ejs to produce dynamic URLs

index.js

```
router.get('/', function(req, res, next) {
  res.render('index', { title: 'Express' });
});

router.get("/about/:name", function (req, res, next) {
  res.render("about", {title: "About", name: req.params["name"]});
});
```

index.ejs


localhost:3000

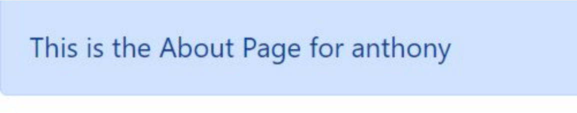
Welcome to Express

```
<h1>Welcome to <%= title %></h1>
<a href="/about/anthony" type="button" class="btn btn-primary">
  About Anthony
</a>
<a href="/about/cat" type="button" class="btn btn-primary">
  About Cat
</a>
<a href="/about/express" type="button" class="btn btn-primary">
  About Express
</a>
<div class="alert alert-primary" role="alert">
  This is the Home Page
</div>
```

about.ejs

```
<div class="alert alert-primary" role="alert">
  This is the About Page for <%= name %>
</div>
```

We render the HTML differently based on the given “name” parameter.


This is the About Page for anthony