EJS

A template engine for Express



Templating

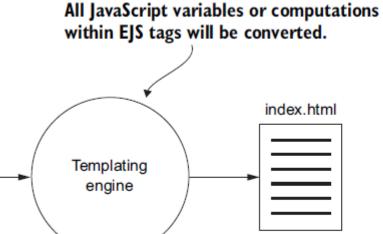
- You can extend Express to use a templating engine that allows you to insert dynamic data in the views.
- EJS is a template engine that proves to be the simplest templating language to learn for people with moderate experience with HTML.



Converting EJS to HTML

 The starting file represents your index page. The goal of the templating engine is to produce an HTML page.

index



3. The templating engine will convert dynamic

content into static HTML nodes and elements.

2. The extension for an EJS templating engine is .ejs. This extension helps the engine locate only the files it knows how to convert into HTML.

index.ejs

4. The result of this process is an HTML page that's viewable on any modern browser.



Configuring an Express App with ejs

- Just enter express at the command line
 - You need to have express-generator installed globally for this to work

To use ejs and init a git repo:

```
express --view=ejs --git app_name
```

For an existing express app you can install ejs with npm

npm i ejs -S



app.js

```
var createError = require('http-errors');
var express = require('express');
var indexRouter = require('./routes/index');
var usersRouter = require('./routes/users');
var app = express();
// view engine setup
app.set('views', path.join( dirname, 'views'));
app.set('view engine', 'ejs');
// middleware setup
app.use(logger('dev'));
app.use(express.json());
app.use(express.urlencoded({ extended: false }));
// routes setup
app.use('/', indexRouter);
app.use('/users', usersRouter);
// catch 404 and forward to error handler
app.use(function(req, res, next) {
 next(createError(404));
});
// error handler
app.use(function(err, req, res, next) {
// set locals, only providing error in development
module.exports = app;
```



Respond with a view

```
index.js
var express = require('express');
var router = express.Router();

/* GET home page. */
router.get('/', function(req, res, next) {
    res.render('index', { title: 'Express' });
});
module.exports = router;
```

Name of view file

Object with data to pass to the view



The view

index.ejs

```
<!DOCTYPE html>
<html>
  <head>
    <title><%= title %></title>
                                                                   Ejs view engine
    <link rel='stylesheet' href='/stylesheets/style.css' />
  </head>
                                                                                         index.html
  <body>
    <h1><%= title %></h1>
                                     <!DOCTYPE html>
    Welcome to <%= title %>
                                     <html>
  </body>
                                        <head>
</html>
                                          <title>Express</title>
                                          <link rel='stylesheet' href='/stylesheets/style.css' />
                                       </head>
                                        <body>
                                          <h1>Express</h1>
               The value of the title
                                          Welcome to Express
               property will be inserted
                                        </body>
               here
                                      </html>
```



Ejs layouts

- A layout is a template in which your views are rendered
- To use this feature with ejs you must install the express-ejs-layouts package

```
npm i express-ejs-layouts -S
```

And require and use in app.js:

```
const layouts = require("express-ejs-layouts")
app.use( layouts );
```



Ejs layout template file

layout.ejs

index.ejs

```
<!DOCTYPE html>
<html>
<head>
  <title><%= title %></title>
  <link rel='stylesheet'</pre>
  </head>
<body>
  <div id="nav" AAVIGATION</div>
  <%- body %>
  <div id="footer">FOOTER</div>
</body>
                Express I4 X
                                      ×
</html>
                      (i) localhost
                                 · >>
                      NAVIGATION
             Express 14
             Welcome to Express I4
                       FOOTER
```

```
<h1><%= title %></h1>
 Welcome to <%= title %>
                                                  index.js
             router.get('/', function(req, res, next)
             res.render('index', { title: 'Express' })
             });
<!DOCTYPE html>
<html>
<head>
 <title>Express</title>
 <link rel='stylesheet' href='/stylesheets/style.css' />
</head>
<body>
 <div id="nav">NAVIGATION</div>
 <h1>Express</h1>
 Welcome to Express
 <div id="footer">FOOTER</div>
</body>
</html>
```

Partials

- Are snippets of view content that can be included in other views.
- You add a partial view to another EJS view by using the include keyword and the path to the partial view

 And it is recommended to keep you partial views in a separate sub folder of the View folder – often called partials

```
<body>
<div id="nav"><% include partials/navigation %></div>
<%- body %>
<div id="footer">FOOTER</div>
</body>
```

✓ views
✓ partials
◇ navigation.ejs
◇ error.ejs
◇ index.ejs
◇ layout.ejs

navigation.ejs

<h3>Navigation area</h3>



Loops

```
exports.someStudents = (req, res) => {
                                                   exports.listStudents = (req, res) => {
res.render('shortList', {
                                                     res.render('listStudents', {
title: '3 students',
                                                     title: 'Students List',
students
                                                     students
                                 let students = [{
});
                                   studentNo: '1',
                                                     });
                                   givenName: 'Brendan',
                                   sirName: 'Eich'
<h1>3 first students in ITTWEB</h1
                                   }, ...
<h1>Students in ITTWEB</h1>
<% for(let i=0; i < 3; i++) { %>
                                                   <% students.forEach(student => { %>
 >
                                                     <strong> <%= student.studentNo %>
   <%= students[i].studentNo %>
                                                     </strong>
   <%= students[i].givenName %>
                                                     <span> <%= student.givenName %>
   <%= students[i].sirName %>
                                                     <%= student.sirName %></span>
 <br />
<% } %>
                                                   <% }); %>
```



Conditionals



References & Links

- Get programming with Node.js chapter 10.
- https://ejs.co/
- YouType videos search for "intro ejs"

