

BUILDING A WEB APP IN 100% JAVASCRIPT

USING NODE.JS, EXPRESS.JS, AND
KENDO UI

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WHO AM I?

CARL BERGENHEM

MANAGER OF SOLUTIONS
CONSULTANT TEAM @TELERIK

ASPINSIDER

WEB DEVELOPER

GAMING AFFICIONADO

LOVER OF JS

I HAVE A SECRET...

WE CAN NOW BUILD OUR
ENTIRE APP
IN
JAVASCRIPT

HOW IS THIS EVEN
POSSIBLE!?

JAVASCRIPT IS JUST CLIENT-SIDE
RIGHT?

WRONG

NODE.JS CHANGED THE GAME

ALLOWS JAVASCRIPT ON THE SERVER

BEFORE WE START

LET'S TAKE A LOOK AT THE
TECHNOLOGIES WE'RE
COVERING

(THERE'S A LOT OF THEM)

SERVER:

NODE.JS

WEB FRAMEWORK:

EXPRESS.JS

DATABASE:

MONGODB AND MONGOOSE.JS

UI FRAMEWORK:

KENDO UI

NODE.JS

CREATED BY RYAN DAHL

RUNS ON GOOGLE'S V8 JAVASCRIPT
ENGINE

EVENT DRIVEN

ASYNCHRONOUS

PERFECT FOR WEB SERVERS

WHY IS IT PERFECT FOR
WEB SERVERS?

ASYNCHRONOUS AND EVENT DRIVEN

NON-BLOCKING I/O

SUPER LIGHT-WEIGHT

INSTALL PROCESS

NODE.JS.ORG

INSTALLERS FOR OS X, WINDOWS,
LINUX AND SUNOS

AUTOMATICALLY INSTALLS NODEJS
AND NPM

NPM

PACKAGE MANAGER FOR NODE.JS

SUPER EASY TO USE

```
npm install [package name]
```

QUICK NODE.JS SERVER

```
var http = require('http');  
http.createServer(function (req, res) {  
    res.writeHead(200, {'Content-Type': 'text/plain'});  
    res.end('Hello World\n');  
}).listen(1337, '127.0.0.1');
```

LET'S SET UP OUR SERVER

WELL THAT WAS FUN
WHAT'S NEXT?

EXPRESSJS

WEB APP FRAMEWORK FOR NODE.JS

EXTENDS THE NODE.JS FRAMEWORK

SIMPLE WAY OF HANDLING ROUTES

QUICK AND EASY SETUP & CONFIGURATION

BUILT-IN VIEW TEMPLATES (JADE)

YOU DECIDE THE STRUCTURE

INSTALL PROCESS

NAVIGATE TO YOUR APP FOLDER

CREATE A PACKAGE.JSON FILE

PASTE THE FOLLOWING

```
{  
  "name": "SampleApp",  
  "description": "Sample App Description",  
  "version": "0.0.1",  
  "private": true,  
  "dependencies": {  
    "express": "3.x"  
  }  
}
```

RUN THE FOLLOWING:

```
npm install
```

QUICK EXPRESS.JS SETUP

```
var express = require('express');  
  
var app = express();  
  
app.get('/request', function(req, res) {  
    console.log('We got a request!');  
});  
  
app.listen(3000);  
console.log('Listening on port 3000...');
```

LET'S EXPRESS-IFY OUR APP!

THAT WAS QUICK!

MONGOOSEJS

SIMPLE OBJECT MODELING

WORK WITH BSON

CREATE STRICT MODELS

EASILY HOOK IN TO MONGODB

HIGHER LEVEL THAN 'RAW' DRIVERS

INSTALL PROCESS

VERY EASY INSTALL!

```
npm install mongoose
```

ADDING OUR DATABASE!

KENDO UI

CREATED BY @TELERIK

JAVASCRIPT FRAMEWORK

BASED ON JQUERY

WEB APP UI FRAMEWORK

MOBILE HYBRID APP UI FRAMEWORK

HTML5 AND CSS3

WIDE CROSS-BROWSER SUPPORT

IE7+, FF, CHROME, SAFARI, OPERA

QUICK KENDO SAMPLE

```
<ul id='myMenu' >
  <li>Books</li>
  <li>Video Games</li>
  <li>Movies</li>
    <ul>
      <li>The Big Lebowski</li>
      <li>The Matrix</li>
    </ul>
  </li>
</ul>

<script>
  $(function () {
    $( '#myMenu' ).kendoMenu( );
  });
</script>
```

TIME TO SLAP SOME UI ON
THIS THING

UI LEVEL: KENDO UI

WOAH THERE, HOLD YOUR
HORSES

DEBUGGING!?

NODE INSPECTOR

DEBUG ANY NODE.JS APP

WEBKIT DEVTOOLS

EASY TO INSTALL

```
npm install -g node-inspector
```

EASY TO USE

```
node-inspector &
```

DEBUGGING TIME!

THAT'S IT!

WE NOW HAVE AN APP

WRITTEN IN 100%
JAVASCRIPT

THANKS!

Q&A

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