

MOVING ON TO THE WEB APP

IT'S TIME TO MEET EXPRESS

The Framework We'll Be Using To Make JOIN US

LOOK AT THE DOCS!

Starting Nice And Simple

DON'T RUN THIS YET!

```
npm install express
```

WHAT THE HECK DOES THIS DO

```
npm init
```

(it's a fast way of starting a new app)

THIS VERSION IS BETTER

```
npm install express --save
```

It will save a record of the install

Hi there, I would like the "/" page please!



Sure thing, here you go!

Our First SUPER SIMPLE Express App

```
var express = require('express');
var app = express();

app.get("/", function(req, res){
  res.send("HELLO FROM OUR WEB APP!");
});

app.listen(8080, function () {
  console.log('App listening on port 8080!');
});
```

Adding More Routes

Hi there, I would like the "/joke" page please!



Sure thing, here you go!

Routing Pseudocode

1. Did The Client Request "/"?

Respond with "WELCOME TO THE HOME PAGE"

2. Did The Client Request "/joke"?

Respond with "Knock Knock..."

Adding Another Route

```
app.get("/joke", function(req, res){  
    var joke = "What do you call a dog that does magic tricks? A labracadabrador."  
    res.send(joke);  
});
```

One Last Route

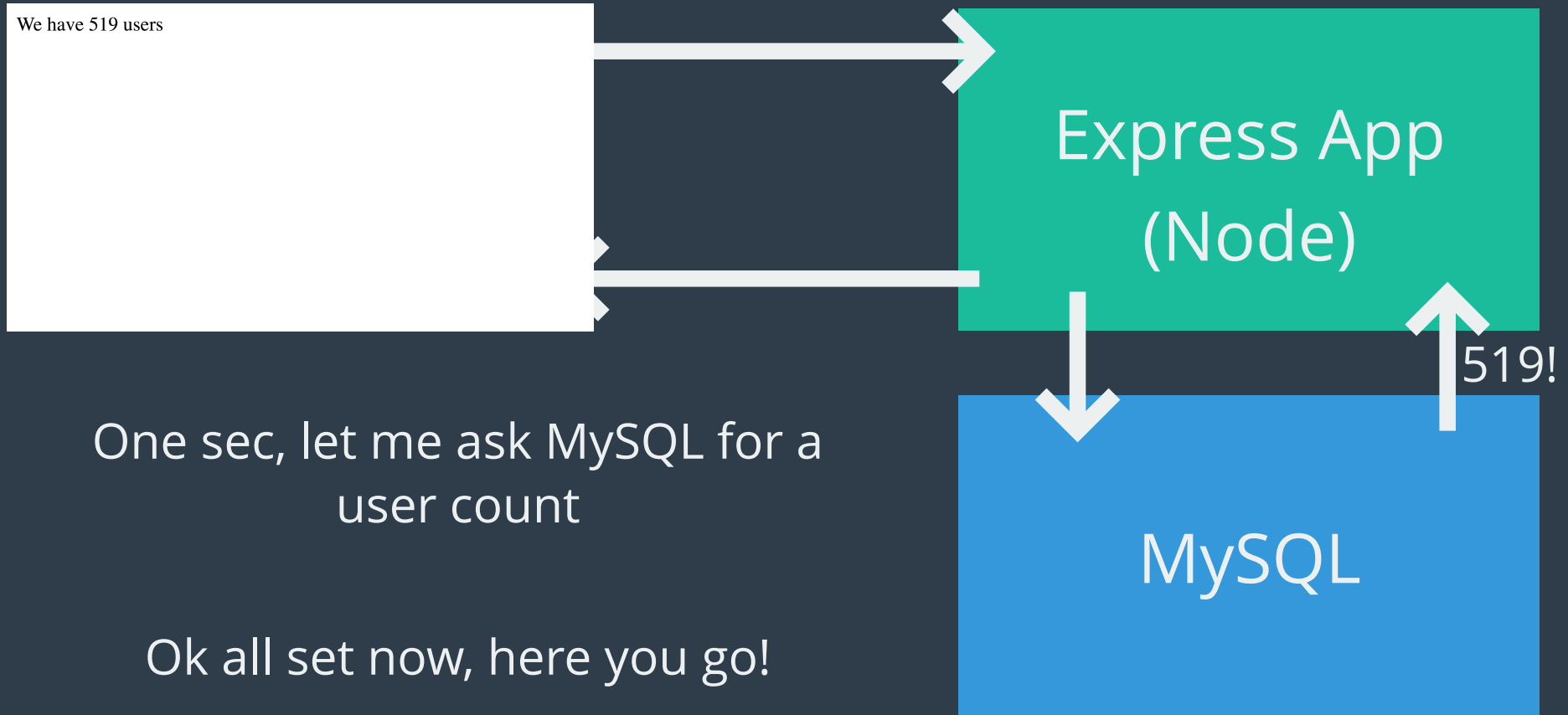
```
app.get("/random_num", function(req, res){  
    var num = Math.floor(Math.random() * 10) + 1;  
    res.send("Your lucky number is " + num);  
});
```

The Next Logical Step

Integrating MYSQL

We have 519 users

Hi there, I would like the "/" page please!



Retrieving Users Count From DB Inside a Route

```
app.get("/", function(req, res){  
  var q = 'SELECT COUNT(*) as count FROM users';  
  connection.query(q, function (error, results) {  
    if (error) throw error;  
    var msg = "We have " + results[0].count + " users";  
    res.send(msg);  
  });  
});
```

(Not showing code to connect to the db)

WORKING WITH VIEWS

Adding HTML to our web app

We're Working Towards This...



JOIN US

Enter your email to join **518** others on our waitlist. We are 100% not a cult.

Enter Your Email

Join Now

Where We'll Start...The Unstyled Version...

JOIN US

Enter your email to join **518** others on our waitlist. We are 100% not a cult.

All The Markup We Need

```
<h1>JOIN US</h1>
<p class="lead">Enter your email to join <strong>518</strong>
others on our waitlist. We are 100% not a cult. </p>
<form method="POST" action="/register">
  <input type="text" class="form" placeholder="Enter Your Email">
  <button>Join Now</button>
</form>
```

EJS

```
npm install --save ejs
```



```
app.set("view engine", "ejs");
```

```
res.render ( 'home' ) ;
```



Look For A Views Directory



Look For **home.ejs** in that directory

S00000000000

What about that form...

JOIN US

Enter your email to join **518** others on our waitlist. We are 100% not a cult.

Enter Your Email

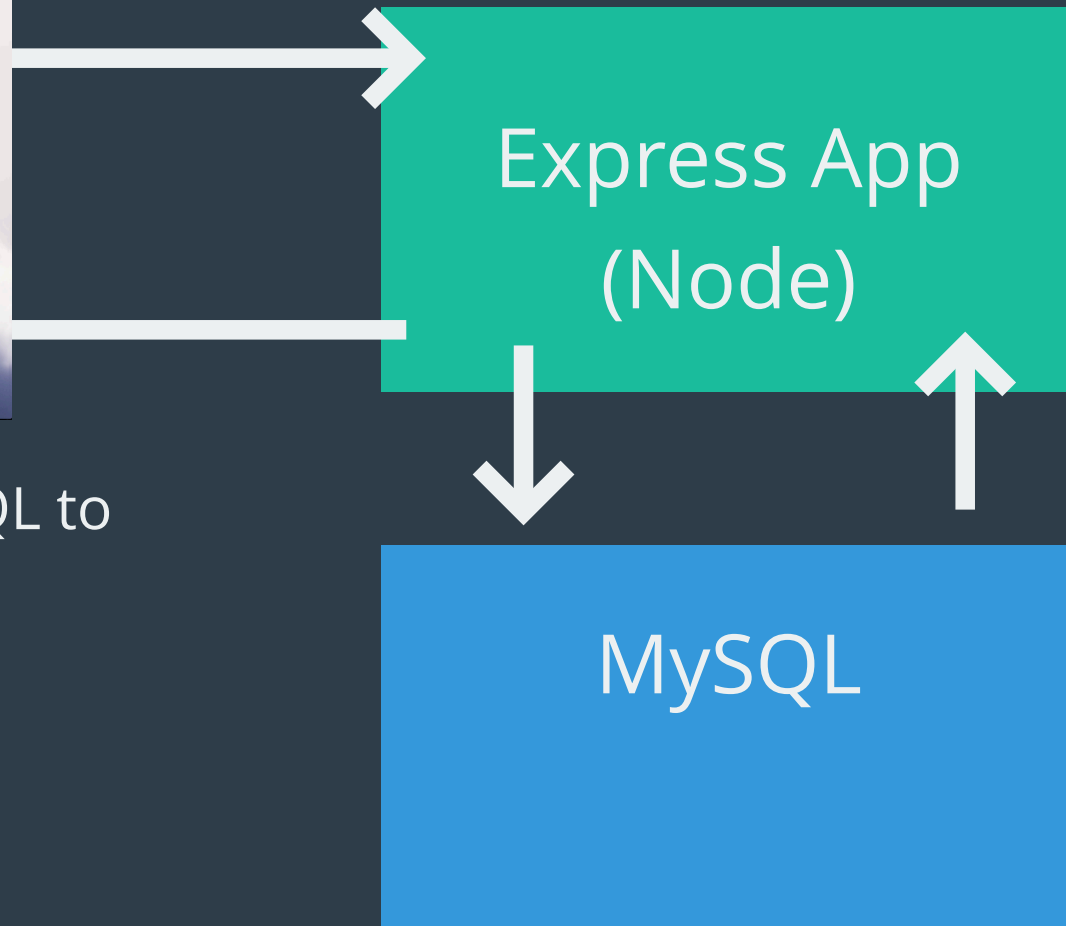
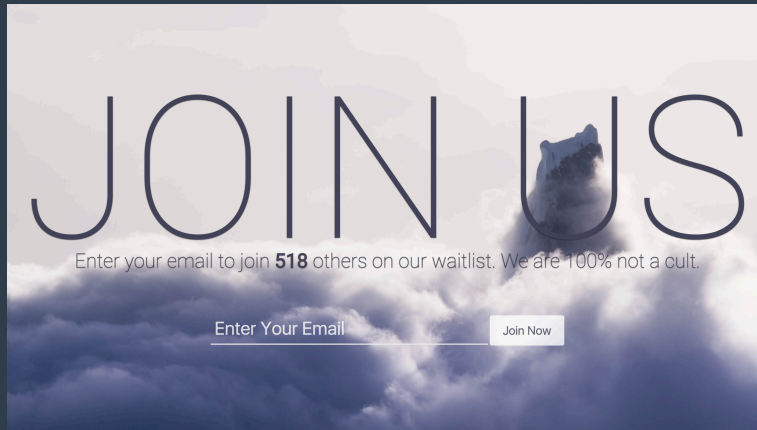
Join Now

JOIN US

Enter your email to join **518** others on our waitlist. We are 100% not a cult.

Hi server, I would like to sign up, here's my email

sophie97@yahoo.com



One sec, let me ask MySQL to
INSERT that for you

Ok all set now!

How Does The
Form Data
Make It To Our
Server?

Defining a POST route

```
app.post('/register', function(req, res) {  
    //a POST route!  
});
```


Some Annoying Set Up

```
npm install --save body-parser
```

```
var bodyParser = require("body-parser");
```

```
app.use(bodyParser.urlencoded({extended: true}));
```

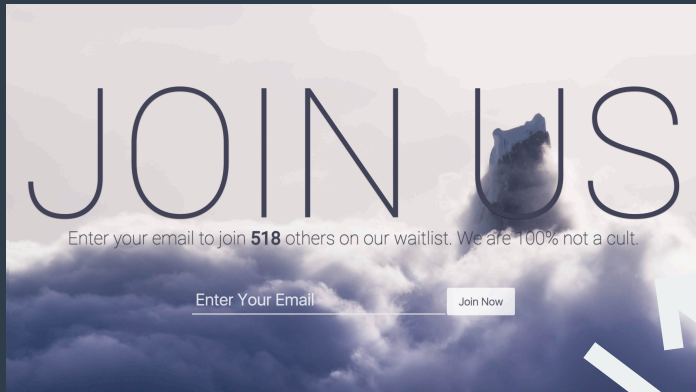
Extracting Form Data From Request Body

```
var person = {email: req.body.email};
```

Our Finished /register POST route

```
app.post('/register', function(req,res){
  var person = {email: req.body.email};
  connection.query('INSERT INTO users SET ?', person, function(err, result) {
    console.log(err);
    console.log(result);
    res.redirect("/");
  });
});
```

```
app.use(express.static(__dirname + "/public"));
```



MySQL DB

NodeJS Server

