

Slide Set + Pre-Recorded Videos

- Week 2 slides and mini-lecture videos on Cloud Deakin
- Free APIs:
<https://public-apis.xyz/>
- HTTP Response Status Codes:
<https://developer.mozilla.org/en-US/docs/Web/HTTP/Status>

Practical

You can find the solution files and demo videos after the practicals on **Cloud Deakin > Content > Weekly materials > Week2 > Practical**. Good luck!

- **Part 1: Express & Body Parser**

It's time to build a backend server! Get your visual studio code ready for this exercise and install express and body-parser using npm.

BMICalculator Routing_ a guide on how to build a server using Express at [this link](#), a guide on how to send an HTML file using Express at [this link](#) and a guide on how to use body-parser at [this link](#)

In this part, you are asked to turn the previous BMI Calculator that we wrote using *JavaScript functions* and *Bootstrap* in Week 1 into a web application.

- Create a new project folder called BMI Calculator
- Inside BMI Calculator, create a new server.js and index.html file
- Initialize npm with default options

npm init -y

- Install express, body-parser modules

npm i express

npm i body-parser

- Require the newly installed modules inside server.js.

```
const express = require("express")
const bodyParser = require("body-parser")
```

- Create a new express app and set it to listen to port 3000. Once port is setup, log the below message.

```
const app = express()

app.listen(3000, function(){
  console.log("Server is running on port 3000")
})
```

Use the BMI Calculator html code that we wrote previously as shown below and takes the weight and height as inputs and calculate the BMI and return a message based on the number. All calculations are run on backend.

What is my BMI? Calculate your Body Mass Index below

Please enter your weight:

Please enter your hight:

- **Part 2: APIs**

Deakin Newsletter Signup_A guide on how to do this can be found at [this link](#).

Now that you know what APIs are, your task is to use the [Mailchimp](#) API and build Deakin Newsletter Signup page as shown below.

Sign Up to Deakin Newsletter

First Name

Last Name

Email

You need to build a single signup page application that sign up people to a mailing list on [Mailchimp](#) API to send the newsletter to subscribers' emails later.