SIT313 Week 2 Practical



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(8080, function(){
  console.log("Server is running on port 3000")
})
```

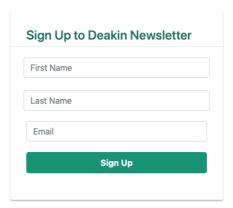
Use the BMI Calculator html code that we wrote previously as shown below and takes the weight and height as inputs and calculate the BMI and return a message based on the number. All calculations are run on backend.

What is my BMI? Calculate your Body Mass Index below

	Please enter your weight:
	63
Please enter your hight:	
	1.65
	Calculate

• Part 2: APIs

Deakin Newsletter Signup_A guide on how to do this can be found at <u>this link</u>. Now that you know what APIs are, your task is to use the <u>Mailchimp</u> API and build Deakin Newsletter Signup page as shown below.



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.