

Code School – Backend Course Outline - 2021

SUBJECT	TEACHER	START DATE	END DATE
Backend Development	Eugene Dumoga	March 2021	June/July 2021

OVERVIEW

At the end of the 4-month duration of the course, the student should have accomplished the following:

1. Be able to Understand & Write clean, functioning, standard & modern JavaScript code.
2. Be able to successfully debug JavaScript errors.
3. Be able to build secure, stable RESTful APIs in Node & Express
4. Be able to build, test & successfully deploy backend applications in Node & MongoDB.

TECHNOLOGIES	TOPICS TO BE TREATED	DURATION
JAVASCRIPT	<ul style="list-style-type: none">• Introduction to JavaScript• Variables, Datatypes	MARCH
ADVANCED JAVASCRIPT	<ul style="list-style-type: none">• Control Flow (ES5 & ES6)• Arrays & Higher Order Functions• Objects, Methods• Functions, Arrow Functions• Classes, Methods• Writing Clean JavaScript Code• Debugging	APRIL
NODE JS & EXPRESS JS	<ul style="list-style-type: none">• Introduction to Node JS• NPM, Semantic Versioning (Introduction to GitHub)• Building RESTful APIs with Express JS• Express Advanced Topics (Middleware, Project Structuring)• Asynchronous JavaScript	MAY
EXPRESS JS, MONGO DB & PROJECT	<ul style="list-style-type: none">• Introduction to Mongo DB• Mongo DB Advanced Topics (Authentication & Authorization, Modelling Relationships)• Handling Errors• Unit Testing, Integrated Testing, Test-Driven Development• Deployment (Project**)	JUNE/JULY