





Online Training on Back End Web Development 101 Batch 2 (with Self Mastery and Employment Sprint Course)

Training Calendar

Training Schedule	
No. of Training Days	12
Training Dates and Time	October 17 – November 3, 2022

Day	Date	Topic	Sub-topic	Trainer
			Orientation	Bayan Academy
		Introduction to	What is backend web development?	
		Backend Web Development	Overview	
	October 17-18,	T	What is Terminal and why do we need to know its commands?	Aldrin B. Tamayo
1	2022	Terminal	Terminal installation guide	
and			The Basics of Terminal commands	
2	Monday and		Introduction to Node JS	
	Tuesday		What is Node used for?	
	racsaay		Node JS installation guide	Aldrin B.
		Node JS	The Node JS REPL	Tamayo
			Running Node JS files	ramayo
			Process and Argv	
			File System Module	
			Modules.exports	
			Requiring a directory	
			NPM	Aldrin B.
		Modules and NPM	Installing Packages	Tamayo
			Adding Global Packages	ramayo
	October 19, 2022		Package.json	
3	19, 2022		Installing all dependencies for a project	
	Wednesday		Introduction to Express JS	
	,		First Express App	
		Creating Servers	The Request and Response Objects	Aldrin B.
		using Express	Basics of Express Routing	Tamayo
			Query Strings	
		d F. IWd B. day	Auto-restart with Nodemon	

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		Creating Dynamic HTML with templating	What is templating? Configuring Express for EJS Setting The Views Directory EJS Interpolation Syntax Passing Data to templates Subreddit Template Demo Conditionals in EJS Loops in EJS More complex Subreddit Demo	Aldrin B. Tamayo
4	October 20 - 21, 2022	ı	Serving Static assets in Express Bootstrap and Express EJS and Partials	
and 5		Get vs Post Requests Defining Express Post Routes Parsing the Request body Intro to REST RESTful comments overview RESTful comments index RESTful comments new Express redirects RESTful comments show The UUID package RESTful comments update Express Method Override RESTful comments delete	Aldrin B. Tamayo	
6	October 24, 2022 Monday	MongoDB	Introduction to Databases SQL vs NoSQL Databases Why do we need to know MongoDB? MongoDB installation guide The Mongo Shell What BSON? Create using Mongo Read using Mongo Update using Mongo Delete using Mongo Additional Mongo Operators	Aldrin B. Tamayo
7	October 25, 2022 Tuesday	Connecting to Mongo with Mongoose	What is Mongoose? Connecting Mongoose to Mongo Mongoose Model Create Many Read using Mongoose	Aldrin B. Tamayo







			Update using Mongoose	
			Deleting using Mongoose	
			Mongoose Schema Validation	
			Additional Schema Constraints	
			Validating Mongoose Updates	
			Mongoose Validation Errors	
			Model Instance Methods	
			Adding Model Static Methods	
			Mongoose Virtuals	
			Defining Mongoose Middleware	
			Basic Setup of Express and Mongoose	
			Our Model	
			Products Index	
			Products Details	
		Mongoose with	Creating Products	Aldrin B.
		Express	Updating Products	Tamayo
	October	ctober	Tangent on Category Selector	
	26, 2022		Deleting Products	
8	,		Filtering by Category	
	Wednesday		Introduction to Express Middleware	
			Using Morgan: Logger Middleware	
			Defining our own Middleware	
		Middleware	Middleware Practice	Aldrin B.
			Setting up a 404 route	Tamayo
			Password Middleware demo	
			Protecting Specific routes	
			Express' built-in error handler	
		Handling Francis	Defining custom error handlers	
			Our custom error class	Aldrin B.
	Handling Errors in Express Apps	Handling Async Errors	— Татауо	
			Handling more Async errors	
	October 27		Defining an Async utility	
and	9 - 28, 2022		Differentiating Mongoose errors	
10	Thursday		Introduction to Mongo Relationships	
	and Friday	-	SQL Relationships overview	
			One to Few	Aldrin B.
			One to Many	Tamayo
			Mongoose Populate	
			One to Millions	
			Mongo Shema Design	
11			Defining Product Models	







			Note about farm model	
		Create new farms	1	
		Relationships with Express	Farms show page	Aldrin B. Tamayo
			Creating products for a farm	
	October		Finishing touches	
	31, 2022		Deletion Mongoose Middleware	
			Introduction to Express router	
	Monday		Express router and Middleware	
		Express Router &	Introduction to Cookies	Aldrin B.
		Cookies	Sending Cookies	Tamayo
			Cookie Parser Middleware	
			Signing Cookies	
			Introduction to Sessions	
		Express Session and Flash	Express Session	Aldrin B.
			Introduction to Flash	Tamayo
			Res. Locals and Flash	
			Authentication vs Authorization	
			How to not store passwords	
	November		Cryptographic Hashing Functions	
12	1, 2022		Password salts	
12			Introduction to Bcrypt	
	Tuesday	A.uthomtiontion	Auth Demo: Setup	Aldrin B.
		Authentication	Auth Demo: Registering	Tamayo
			Auth Demo: Login	
			Auth Demo: Staying logged in with session	
			Auth Demo: Logout	
			Auth Demo: Require Login Middleware	
			Auth Demo: Refactoring to model methods	
13	November 2, 2022	SELF-MASTERY/		Bayan
		EMPLOYMENT		Academy
	November	SPRINT		<u>'</u>
14	3, 2022	FIN-ED		BPI

Prepared by	Approved by
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For concerns and questions, please contact:

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This training is part of Bayan Academy's One Plan for Labor Alignment and Networking or OPLAN Trabaho campaign created to address the needs of unemployed and outplaced workers brought about by Covid-19.