





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

Training Calendar

Training Schedule	
No. of Training Days	14
Training Dates and Time September 26, 2022 – October 13, 2022	

Day	Date	Topic	Sub-topic	Trainer
			Orientation	Bayan
		Introduction to	M/hat is hadrand wah davalanmant?	Academy
		Backend Web	What is backend web development?	_
		Development	Overview	
	September	-	What is Terminal and why do we need to	Aldrin B.
	26 - 27,	Terminal	know its commands?	Tamayo
1	2022	Terminar	Terminal installation guide	
and 2	Monday		The Basics of Terminal commands	
2	Monday and		Introduction to Node JS	
	Tuesday		What is Node used for?	
	,		Node JS installation guide	Aldrin B.
		Node JS	The Node JS REPL	Tamayo
			Running Node JS files	
			Process and Argv	
			File System Module	
			Modules.exports	
			Requiring a directory	
			NPM	Aldrin B.
		Modules and NPM	Installing Packages	Tamayo
	Cantanahan		Adding Global Packages	
	September 28, 2022		Package.json	
3	20, 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	
		uck End Wah Davidan	Auto-restart with Nodemon	

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4	Creating Dynamic HTML with templating September 29 - 30, 2022 Thursday and Friday RESTful Routes	HTML with	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 Serving Static assets in Express Bootstrap and Express EJS and Partials	Aldrin B. Tamayo
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 3, 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 4, 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	
		NA	Products Details	414.5
		Mongoose with	Creating Products	Aldrin B.
		Express	Updating Products	Tamayo
	October 5,		Tangent on Category Selector	
	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	
			Defining custom error handlers	
			Our custom error class	Aldrin D
			Handling Async Errors	Aldrin B. Tamayo
			Handling more Async errors	Talliayo
	October 6 -		Defining an Async utility	
9	7, 2022	7, 2022	Differentiating Mongoose errors	
and 10	Thursday and Friday		Introduction to Mongo Relationships	
10			SQL Relationships overview	Aldrin B. Tamayo
		Data Relationship	One to Few	
			One to Many	
		with Mongo	Mongoose Populate	
			One to Millions	
			Mongo Shema Design	
11			Defining Product Models	







			Note about farm model	
			Create new farms	
		Mongo	Farms show page	Aldrin B.
	Relationships with Express	Creating products for a farm	Tamayo	
	October	Express	Finishing touches	1
	10, 2022		Deletion Mongoose Middleware	1
	,		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	1
			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	
	October		Cryptographic Hashing Functions	
12	11, 2022		Password salts	
12			Introduction to Bcrypt	
	Tuesday	Authentication	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	
	October	SELF-MASTERY/		Bayan
13	12, 2022	EMPLOYMENT		Academy
14	October	SPRINT FIN-ED		BPI
	13, 2022	, 25		511

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.