

BASIC

EXPRESS WORKSHOP

WHAT IS EXPRESS ?

- ▶ Express is a minimal and flexible **Node.js web application framework** that provides a robust set of features for web and mobile applications

CORE FEATURES

- ▶ Server
- ▶ Routing
- ▶ Middleware
- ▶ Request & Response handler

SERVER

- ▶ Start express server will **start Node.js server**
- ▶ Can specify **port** and hostname
- ▶ Start server with watch mode by use [nodemon](#)

ROUTING

- ▶ Routing is how an application response to a client request
- ▶ Accept path and HTTP method
- ▶ Path can be string or regex and can receive parameter
- ▶ HTTP method ex. get, post, put, delete

MIDDLEWARE

- ▶ **Filter** before request pass through API
- ▶ Common use to create **log, authorization, validate request** etc

REQUEST

- ▶ Object define **client request**
- ▶ Contain path, url parameters, query string, body request (need [body-parser](#)), request header

RESPONSE

- ▶ Object that provide **how to response to client**
- ▶ Can response in many type likes **JSON, html, file**
- ▶ Can set **status code** ex. 200, 201

RESTFUL API CONCEPT

- ▶ It is a set of design principles for making network communication by HTTP protocol

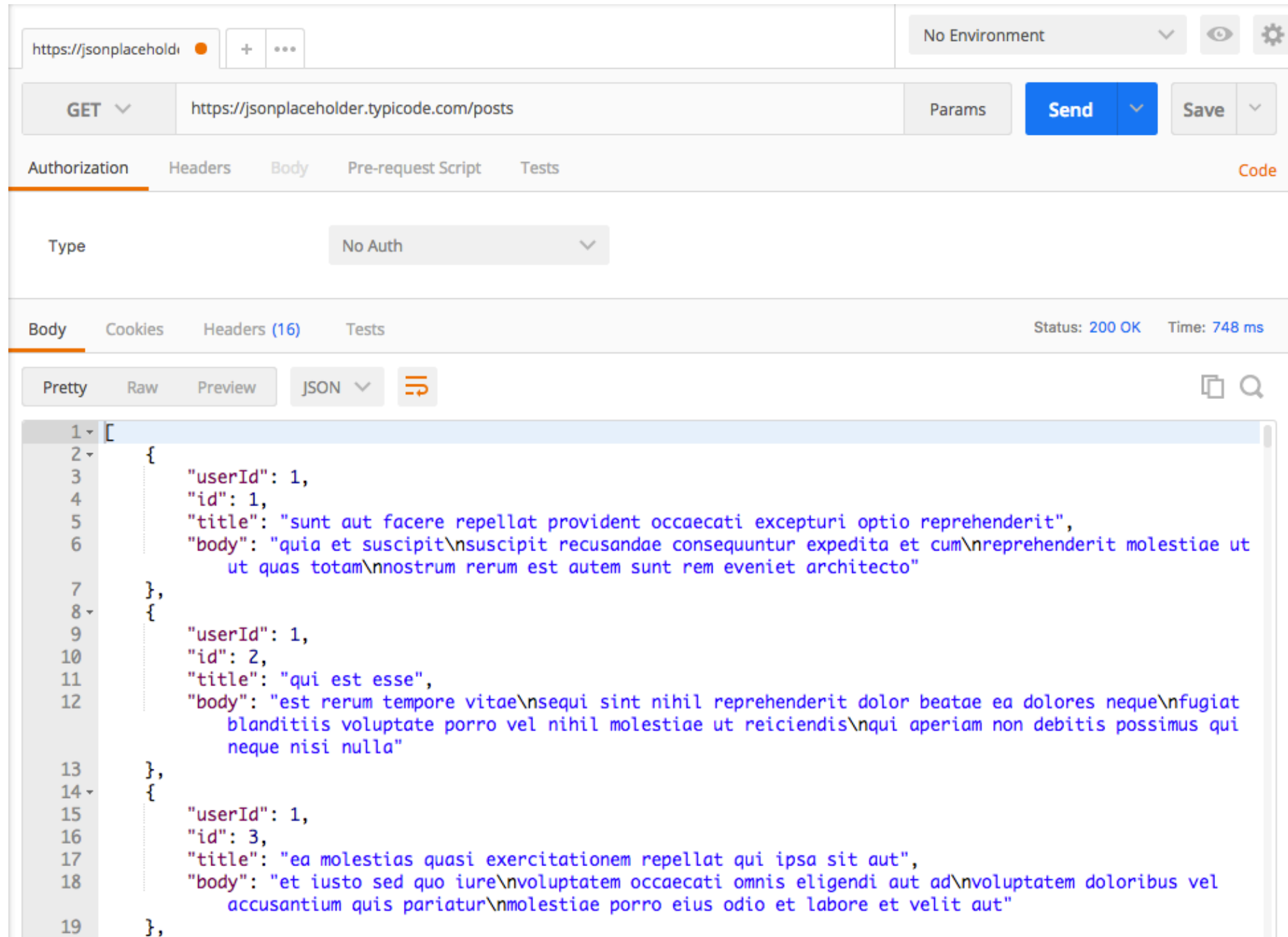
RESTFUL API EXAMPLE

METHOD	PATH	DESCRIPTION	RESPONSE CODE	REQUEST BODY
GET	/products	get all product	200	NO
GET	/products/1	get product where id is 1	200	NO
POST	/products	create product	201	product to create
PUT	/products/1	update product by id	200	product to update
DELETE	/products/1	delete product by id	204	NO

POSTMAN

- ▶ GUI platform to create HTTP request
- ▶ getpostman.com

POSTMAN



DEMO

SIMPLE REST API

WORKSHOP

- ▶ Create **simple RESTful API** with no database
- ▶ Response in **JSON** format
- ▶ Create **Log** when receive client request
- ▶ Use **array** instead database
- ▶ <https://gitlab.thinknet.co.th/kunapot/express-hackatron>

30 MINS

HACKATHON

NO TALKING !!!!!