dibimbing.id  
Backend Server Development

# Mini Project

short line

1. Subject: Mini Project of Backend Server Development
2. Types:
   * Hands-on
3. Topics covered: Node.js, API, DB

# Scenario

* You are working in an e-commerce company and single handedly responsible with a **merchant service** that handles the catalog of products owned by merchants

# Objective

* You need to build a **merchant service** from scratch according to the requirements

# Context

* For the MVP, the requirements of **merchant service** are defined below
* The user is a merchant

# Requirements

Task 1

* A merchant service should be written with Node.js and using DB (any DB is allowed) as a persistent storage
* A merchant service will expose several APIs with these functions
  + A merchant could register itself/create an account in the merchant service
  + A merchant could remove its data/delete its account in the merchant service
  + A merchant could add products in the merchant service
  + A merchant could delete a product in the merchant service
  + A merchant could update a product in the merchant service
  + A merchant could get the list of its products from the merchant service
  + Merchant information that a merchant service needed is
    - id
    - password
    - name
    - address
    - join\_date
    - phone\_number
  + Product information that is needed is
    - id
    - name
    - quantity
    - Price
* Commit the working code to git

Task 2

* Make all apis to authenticate user
* Authentication using Basic Auth
* Commit the working code to git

Task 3

* Handle all errors in every API properly
  + If not found return status code 404
  + If unauthorized return status code 401
  + If request is wrong return status code 400

# What and How To Submit

* Create a doc written with [markdown](https://www.markdownguide.org/getting-started/) (md) format that explains
  + A simple [architecture diagram](https://microservices.io/patterns/microservices.html) of the merchant service
  + An Entity Relational Diagram of the merchant service data model
  + List of API contract like [this](https://gist.github.com/BeattieM/324063512d166122ba5c)
  + Add the doc as README.md and checked that in the repo
* A working code checked in in your github repo

short dash