Problem:

The pricing structure for a broadband provider and an energy provider is different. While both business types have **products** and a **monthly price**, only energy providers have a **regional variation.**

Goal:

The goal is to create a simple API that consists of three endpoints.
1. A **GET** endpoint that returns the monthly price for broadband that:
   Accepts: Provider name, Product
   Returns: Monthly price or failure message.

2. A **GET** endpoint for energy price that:
   Accepts: Provider name, Product, Product variation
   Returns: Monthly price or failure message.

3. A **PATCH** endpoint that updates an energy price
   Accepts: Provider name, Product, Product variation, New Price
   Returns:A success or failure message.

Step by step

1. Create a database schema that best handles both pricing structures
2. Implement the schema
3. Write models (& migrations optional)
4. Write 2x GET endpoints & 1x PATCH endpoint

What we're looking for:
● Good database design
● Tests
● That you have considered validation and error cases

Tools:

You can use any framework (Laravel preferable), database, library, testing suite etc. that you like. The only requirement is that you use PHP as your primary language.

Data:

BROADBAND		

PROVIDERS		
Provider name	**Product**	**Monthly price (USD)**
BSNL	100MB	30
	200MB	40
	300MB	50
Airtel	17MB	25
	72MB	40

ENERGY PROVIDERS			
Provider name	**Product**	**Product variation**	**Monthly price (USD)**
Indane energy	Standard tariff	North	54.12
		Mid	56.50
		South	61.92
	Green tariff	North	64.85
		Mid	68.21
		South	71.66
Tata Power	Standard tariff	North	51.95
		Mid	52.00
		South	56.62
	Saver tariff	North	42.57
		Mid	45.22
		South	47.67