

Kindly check the following task.

Create clean project - Don't use frameworks or mini frameworks, you can only use third parties.

1- creating MySQL database for the following Data , it represents tiny shopping cart app.

Customer , should have Name and Identifier Columns

Products , should have Name, Price and Identifier Columns

Orders , should includes Customers purchases including purchase date

* it's your choice for database tables and columns structure , i just try to give you sample of requirement . try to make it very simple as possible

2- Create Page to list Top 10 Purchased Products within date range (start/End) as a filter

Default value for date range is last month from today

3- Use Date pickers for date range , and validate "End Date" not less than "Start Date"

First time when page loads, it will start loading data based on default date range , then use "Submit" button to reload data.

4- Data will be loaded using ajax

Result should includes Id - Product Name - Purchase Count(within date range)

5- Create API to retrieve only customers who has purchased products , if any customer doesn't purchased any product yet he will not be listed

Response content is JSON , a list of customers with their unique purchased products

```
{
  "data": [
    {
      "id": 2,
      "name": "Ahmed",
      "products": [
        {
          "id": 100,
          "name": "Iphone x",
        },
        {
          "id": 101,
          "name": "samsung",
        }
      ]
    },
    {
      "id": 3,
      "name": "Mahmoud",
      "products": [
        {
          "id": 100,
          "name": "Iphone x",
        }
      ]
    }
  ]
}
```

```
},  
  
{  
  "id": 102,  
  "name": "Dell",  
},  
  
{  
  "id": 103,  
  "name": "Lenovo",  
}  
]  
  
},
```