

## **Backend Assignment**

**Statement** - You have to create multiple API's. The details of the API's to be created are as follows:

**1. Create API's through which we can add customers and their details. The details to be included are:**

- Customer Name
- Email
- Mobile Number
- City
- Customer ID - Should be Auto generated (Unique ID)

**2. Create an API for Purchase Order. The details to be included are:**

- Product Name
- Quantity
- Pricing
- MRP
- Purchase order ID- Auto Generated (Unique ID)
- Customer ID - From Customer table above

**Note - Pricing can't be greater than MRP**

**3. Create an API for Shipping Details. The details to be included are**

- Address
- City
- Pincode
- Purchase order ID - From purchase order table above
- Customer ID from the customer details table above

**4. Create an API to get customers which have shipment with city filter**

Eg: The customer details should be fetched based on the city selected. Like if I select city as Delhi, then the shipment details of all the customers in Delhi shall be displayed

## 5. Create an API to get customers with all purchase order

For eg: It should look something like this:-

```
/*
[
  {
    customerId:"",
    ....
    ....
    purchaseOrder:[
      {
        purchaseOrderId:"",
        productName:"",
        quantity:"",
        ...
      },
      {
        purchaseOrderId:"",
        productName:"",
        quantity:"",
        ...
      }
    ]
  },
  {
    customerId:"",
    ....
    ....
    purchaseOrder:[
      {
        purchaseOrderId:"",
        productName:"",
        quantity:"",
        ...
      },
      {
        purchaseOrderId:"",
        productName:"",
        quantity:"",
        ...
      }
    ]
  },
  ...
  ...
]
```

```

    ]
  }
  ...
  ...
]

*/

```

## 6. Create an API to get customer with all purchase order and shipment details

For eg: It should look something like this:-

```

/*
[
  {
    customerId:"",
    ....
    ....
    purchaseOrder:[
      {
        purchaseOrderId:"",
        productName:"",
        quantity:"",
        ...
        shipmentDetail:[
          {
            address:"",
            city:"",
            pincode:"",
            ...
            ..
          }
        ]
      }
    ],
  },
  {
    purchaseOrderId:"",
    productName:"",
    quantity:"",
    ...
    shipmentDetail:[
      {
        address:"",
        city:"",
        pincode:"",
        ...
        ..
      }
    ]
  }
]
*/

```

```
        }
      ]
    }
    ...
    ...
  ]
},
{
  customerId:"",
  ....
  ....
  purchaseOrder:[
    {
      purchaseOrderId:"",
      productName:"",
      quantity:"",
      ...
      shipmentDetail:[
        {
          address:"",
          city:"",
          pincode:"",
          ...
          ..
        }
      ]
    }
  ],
},
{
  purchaseOrderId:"",
  productName:"",
  quantity:"",
  ...
  shipmentDetail:[
    {
      address:"",
      city:"",
      pincode:"",
      ...
      ..
    }
  ]
}
...
...
]
```

```
}  
...  
...  
]  
  
*/
```

**Note - Kindly use mongo aggregation pipeline if possible.**

### Instructions

1. Create an api doc with the postman and publish it.
2. Watch video to publish doc from postman:  
[https://www.youtube.com/watch?v=rKyUA\\_nsCXA](https://www.youtube.com/watch?v=rKyUA_nsCXA)
3. You have **24 hours** to complete the task. You can submit the task before **12 PM tomorrow** i.e **1st February 2022** through this link - <https://forms.gle/2yTrsSnTtfZF37RL8>
4. Kindly send us your repository link through the submission link given above. Do not forget to make it public
5. You can upload the code on any version control like Github, Gitlab, Bitbucket. It's up to you.
6. For any queries contact Arsalan at **+91 6205332071** or mail him at **arsalan@flipr.ai**