# API Contract📜

Every error thrown by an API should be a ***418- I’m a teapot*** error with response:

```
{ "error": "There is some issue. Please try again" }
```

In every API, Header should have the following content:

```
{
    "rootOrg": "Restuarant",
    "org": "Shaandar"
}
```

If the API Header doesn’t contain these, throw an error. No DB/API operations should be allowed in such cases.

> 💡 You are expected to do all the validations and verifications in every API.
> For eg: If customer adds an item which is not present in the menu, throw an error.

## Admin

### View Menu List API:

- Description: Retrieve the menu list for the admin.
- Endpoint: `/admin/menu`
- Method: **GET**
- Response:
    - Success Code: (200)

    ```
    [
      {
        "item_id": 1,
        "item_name": "Chicken Saoji",
        "item_price": 500
      },
    ```

```
    {
      "item_id": 2,
      "item_name": "Veg Kolhapuri",
      "item_price": 350
    }
  ]
```

## Add New Item to Menu API:

- Description: Add a new item to the menu.
- Endpoint: `/admin/menu`
- Method: **POST**
- Request Payload:

```
{
  "item_id": "3",
  "item_name": "Kadhai Paneer",
  "item_price": 450
}
```

- Response:
    - Success (200):

    ```
    { "message": "Item added successfully." }
    ```

## Update Item to Menu API:

- Description: Update item name and/or price for an item in menu.
- Endpoint: `/admin/menu`
- Method: **PUT**
- Request Payload:

```
{
  "item_id": "3",
  "item_name": "Kadhai Paneer",
  "item_price": 450
}
```

- Response:

- Success (200):

```
{ "message": "Item updated successfully." }
```

# Waiting Staff

## View Customer Orders API:

- Description: Retrieve the orders of all customers.
- Endpoint: `/staff/orders`
- Method: **GET**
- Response:
  - Success (200):

```
[
  {
    "customer_id": 12345,
    "items": [
        {
            "item_id": 1,
            "item_name": "Chicken Saoji",
            "item_price": 500
        }
    ]
  },
  {
    "customer_id": 12346,
    "items": [
        {
            "item_id": 2,
            "item_name": "Veg Kolhapuri",
            "item_price": 350
        }
    ]
  }
]
```

## View Order and Current bill amount API:

- Description: Get the order and current bill amount for a specific customer.
- Endpoint: `/staff/bill`
- Method: **GET**

- Query Parameters: `customer_id` (String) - Customer's unique identifier.

  Example: `/staff/bill?customer_id=12345`

- Response:
  - Success (200):

```
{
  "customer_id": "12345",
  "bill_amount": 500,
  "items": [
        {
            "item_id": 1,
            "item_name": "Chicken Saoji",
            "item_price": 500
        }
   ]
}
```

# Customer

## View Current Order API:

- Description: Retrieve the current order of the customer.
- Endpoint: `/customer/order`
- Method: **GET**
- Header: *(Additional to rootOrg and org mentioned above)*

```
{ "customer_id": 12345 }
```

- Response:
  - Success (200):

```
[
  {
    "item_1": 1,
    "item_name": "Chicken Saoji",
    "price": 500
  },
  {
    "item_id": 2,
    "item_name": "Veg Kolhapuri",
    "price": 350
  }
]
```

## Add Item to Order API:

- Description: Add a new item to the customer's order.
- Endpoint: `/customer/order/add`
- Method: **POST**
- Header: *(Additional to rootOrg and org mentioned above)*

```
{ "customer_id": 12345 }
```

- Request Payload:

```
{
  "item_id": "3",
  "item_name": "Kadhai Paneer",
}
```

- Response:
  - Success (200):

```
{ "message": "Item added to the order successfully." }
```

## Remove Item from Order API:

- Description: Remove an item from the customer's order.
- Endpoint: `/customer/order/remove/<item_id>`
- Method: **DELETE**
- Header: *(Additional to rootOrg and org mentioned above)*

```
{ "customer_id": 12345 }
```

- Path Parameters: <item_id> →Unique item identifier

Example: `/customer/order/remove/1`

- Response:
  - Success (200):

    ```
    { "message": "Item removed from the order successfully." }
    ```

## Render Bill API:

- Description: Retrieve the bill for a specific customer.
- Endpoint: `/customer/bill`
- Method: **GET**
- Header: *(Additional to rootOrg and org mentioned above)*

  ```
  { "customer_id": 12345 }
  ```

- Response: Render the HTML bill page with customer-specific information.

  (***bill.html*** is provided in Lab Assignment Folder)