

Day 56 Task

Express & MVC architecture

1. Fetch data of all restaurants from restaurant.json file using Express and implement it in MVC architecture. Use the restaurant data given below.

```
{  
  
  "name": "Domino's",  
  "city": "Delhi",  
  "location_id"  
    ": 1,  
  "city_id": 1,  
  "locality": "Shalimar Bagh",  
  "thumb": [  
  
    "Assets/breakfast.jpg",  
  
    "Assets/dinner.png",  
  
    "Assets/drinks.png",
```

```
"Assets/dinner.png"

],
"aggregate_rating": 4.2,

"rating_text": "Very Good",

"min_price": 666,

"contact_number": 919453524651,

"cuisine": [

{ "id": 1, "name": "North Indian" },

{ "id": 4, "name": "Fast Food" }

],

"image": "Assets/breakfast.jpg",

"mealtype_id": 1

},

{

"name": "KFC",

"city": "Delhi",

"location_id
```

```
"": 1,  
  
"city_id": 1,  
  
"locality": "Shalimar Bagh",  
  
"thumb": [  
  
"Assets/breakfast.jpg",  
  
"Assets/dinner.png",  
  
"Assets/drinks.png",  
  
"Assets/dinner.png"  
],  
"aggregate_rating": 4.5,  
  
"rating_text": "Excellent",  
  
"min_price": 333,  
  
"contact_number": 919453524651,  
  
"cuisine": [  
  
{ "id": 2, "name": "South Indian" },  
  
{ "id": 4, "name": "Fast Food" }  
],
```

```
"image": "Assets/breakfast.jpg",
```

```
  "mealtype_id": 1
```

```
},
```

```
{
```

```
"name": "Burger King", "city":
```

```
  "Delhi", "location_id": 1,
```

```
"city_id": 1,
```

```
"locality": "Shalimar Bagh",
```

```
  "thumb": [
```

```
    "Assets/breakfast.jpg",
```

```
    "Assets/dinner.png",
```

```
    "Assets/drinks.png",
```

```
    "Assets/dinner.png"
```

```
  ],
```

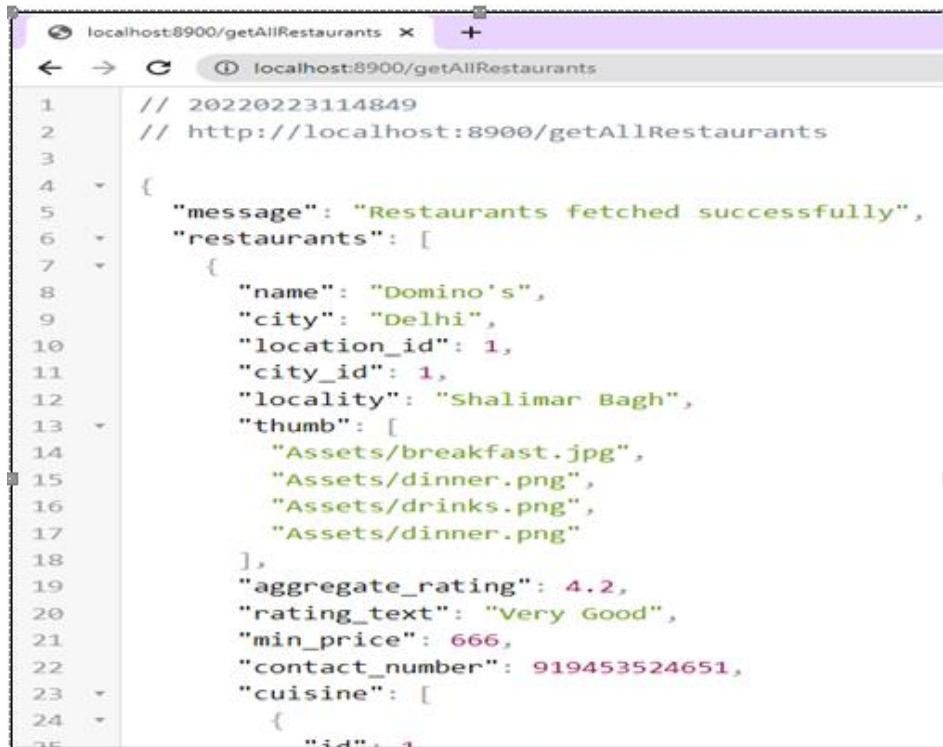
```
"aggregate_rating": 4.5,
```

```
  "rating_text": "Excellent",
```

```
"min_price": 999,  
  
"contact_number": 919453524651,  
  
"cuisine": [  
  
  { "id": 2, "name": "South Indian" },  
  
  { "id": 4, "name": "Fast Food" }  
  
],  
  
"image": "Assets/breakfast.jpg",  
  
"mealtype_id": 1  
  
},  
  
{  
  
  "name": "Baba Ka Dhaba",  
  
  "city": "Delhi",  
  
  "location_id": 5,  
  
  "city_id": 1,  
  
  "locality": "Anand Vihar", "thumb":  
  
  [  
  
    "Assets/breakfast.jpg", "Assets/dinner.png",
```

```
"Assets/drinks.png",  
  
  "Assets/dinner.png"  
  
],  
  
"aggregate_rating": 3.5,  
  
  "rating_text": "Excellent",  
  
  "min_price": 599,  
  
"contact_number": 919453524651,  
  
  "cuisine": [  
    { "id": 2, "name": "South Indian" },  
    { "id": 4, "name": "Fast Food" }  
  ],  
  
"image": "Assets/breakfast.jpg",  
  
  "mealtype_id": 2  
  
}  
  
]
```

The expected output is shown below.



```
1 // 20220223114849
2 // http://localhost:8900/getAllRestaurants
3
4 {
5   "message": "Restaurants fetched successfully",
6   "restaurants": [
7     {
8       "name": "Domino's",
9       "city": "Delhi",
10      "location_id": 1,
11      "city_id": 1,
12      "locality": "Shalimar Bagh",
13      "thumb": [
14        "Assets/breakfast.jpg",
15        "Assets/dinner.png",
16        "Assets/drinks.png",
17        "Assets/dinner.png"
18      ],
19      "aggregate_rating": 4.2,
20      "rating_text": "Very Good",
21      "min_price": 666,
22      "contact_number": 919453524651,
23      "cuisine": [
24        {
25          "id": 1
```

2. Fetch data of all locations from location.json file using Express and implement it in MVC architecture. Use the locations data given below.

```
[
{
```

```
"name": "Shalimar Bagh", "city_id":
```

```
1,
```

```
"location_id": 1,
```

```
"city": "Delhi",
```

```
"country_name":
```

```
"India"  
  
},  
  
{  
  "name":  
  
    "Janpat",  
  
    "city_id": 1,  
  "location_id": 2, "city":  
  
    "Delhi",  
  
    "country_name":  
  
    "India"  
  },  
  
  {  
  
    "name": "MSP",  
  
    "city_id": 1,  
  
    "location_id": 3, "city":  
  
    "Delhi",  
  
    "country_name":
```



```
"India"

},

{

"name": "MSP",

    "city_id": 2,

    "location_id": 4,

    "city":

        "Pune",

    "country_name": "India"

},

{

"name": "Anand Vihar",

    "city_id": 1,

    "location_id": 5,

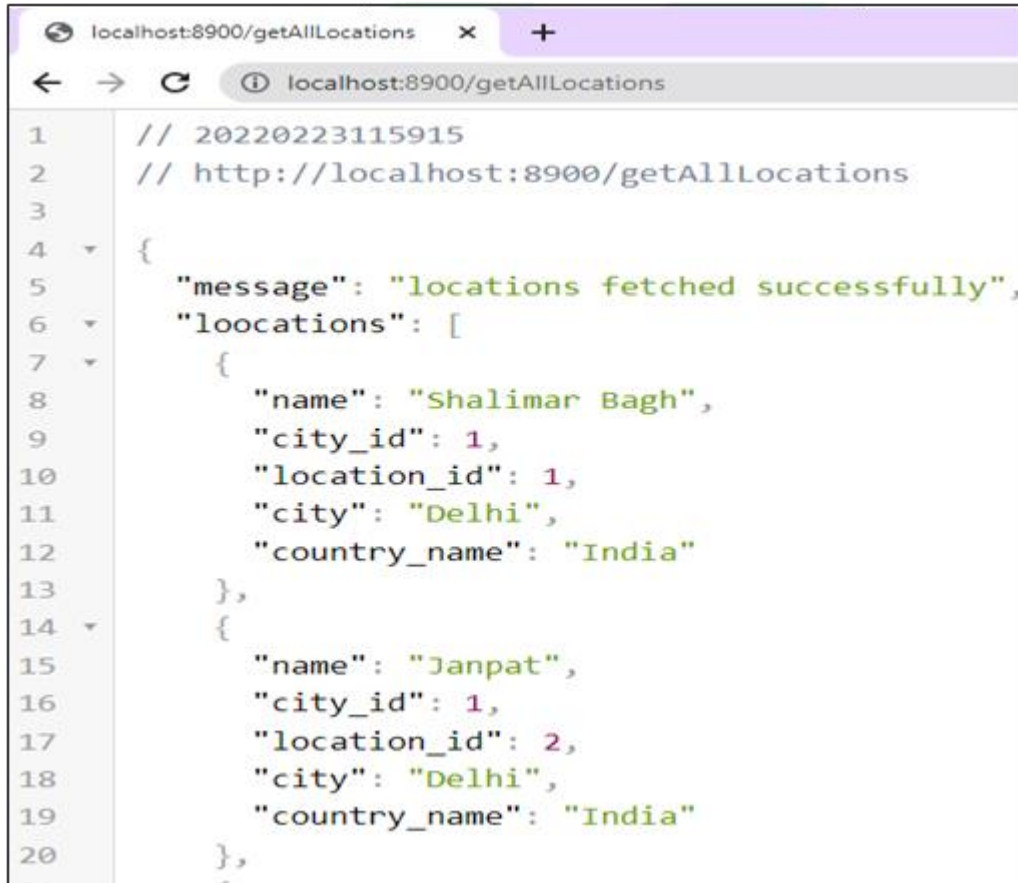
    "city": "Delhi",

    "country_name": "India"

}

]
```

The expected output is shown below.



```

1 // 20220223115915
2 // http://localhost:8900/getAllLocations
3
4 {
5   "message": "locations fetched successfully",
6   "loocations": [
7     {
8       "name": "Shalimar Bagh",
9       "city_id": 1,
10      "location_id": 1,
11      "city": "Delhi",
12      "country_name": "India"
13    },
14    {
15      "name": "Janpat",
16      "city_id": 1,
17      "location_id": 2,
18      "city": "Delhi",
19      "country_name": "India"
20    },
21  ]
22 }
```

3. Fetch data of all meal types from mealtype.json file using Express and implement it in MVC architecture. Use the mealtype data given below.

```

[
  {
    "name": "Breakfast",
    "content": "Start your day with exclusive breakfast options", "image":
      "Assets/breakfast.jpg",

```

```
"meal_type": 1
```

```
},
```

```
{
```

```
"name": "Lunch",
```

```
"content": "Start your day with exclusive lunch options", "image":
```

```
    "Assets/lunch.jpg",
```

```
"meal_type": 2
```

```
},
```

```
{
```

```
"name": "Dinner",
```

```
"content": "Start your day with exclusive dinner options", "image":
```

```
    "Assets/dinner.png",
```

```
"meal_type": 3
```

```
},
```

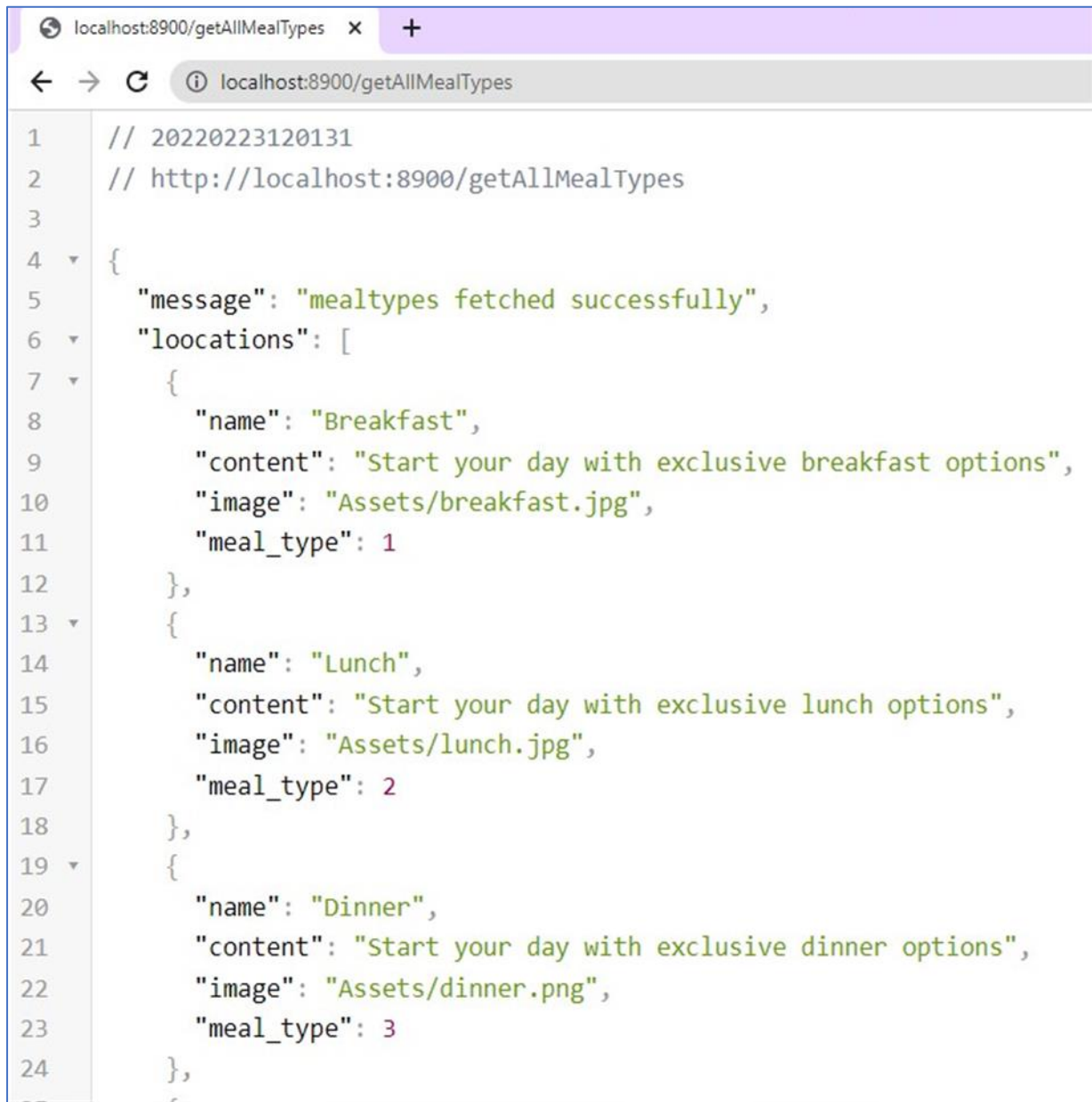
```
{
```

```
"name": "Snacks",
```

```
"content": "Start your day with exclusive snacks options", "image":
```

```
"Assets/snacks.png",  
  
"meal_type": 4  
  
},  
  
{  
  
"name": "Drinks",  
"content": "Start your day with exclusive drinks options", "image":  
  
    "Assets/drinks.png",  
"meal_type": 5  
},  
  
{  
  
"name": "NightLife",  
"content": "Start your day with exclusive nightlife options", "image":  
  
    "Assets/nightlife.png",  
"meal_type": 6  
}
```

The expected output is shown below.



```
1 // 20220223120131
2 // http://localhost:8900/getAllMealTypes
3
4 {
5   "message": "mealtypes fetched successfully",
6   "loocations": [
7     {
8       "name": "Breakfast",
9       "content": "Start your day with exclusive breakfast options",
10      "image": "Assets/breakfast.jpg",
11      "meal_type": 1
12    },
13    {
14      "name": "Lunch",
15      "content": "Start your day with exclusive lunch options",
16      "image": "Assets/lunch.jpg",
17      "meal_type": 2
18    },
19    {
20      "name": "Dinner",
21      "content": "Start your day with exclusive dinner options",
22      "image": "Assets/dinner.png",
23      "meal_type": 3
24    },
25  ]
26 }
```

4. Implement MVC architecture for filtering the restaurants based on city param. The example URL end point is “localhost:8900/getRestaurantsByLocation/Delhi”. Use the restaurant.json data given above.

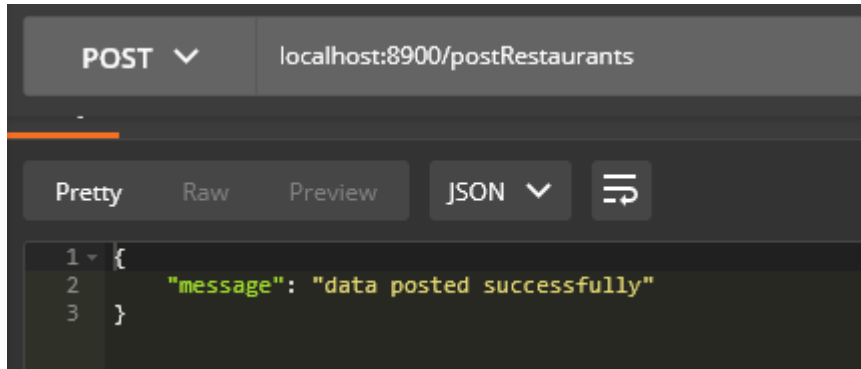
The expected output is shown below.



```
1 // 20220223121034
2 // http://localhost:8900/getRestaurantsByLocation/Delhi
3
4 {
5   "message": "restaurants found",
6   "restaurants": [
7     {
8       "name": "Domino's",
9       "city": "Delhi",
10      "location_id": 1,
11      "city_id": 1,
12      "locality": "Shalimar Bagh",
13      "thumb": [
14        "Assets/breakfast.jpg",
15        "Assets/dinner.png",
16        "Assets/drinks.png",
17        "Assets/dinner.png"
18      ],
19      "aggregate_rating": 4.2,
20      "rating_text": "Very Good",
21      "min_price": 666,
22      "contact_number": 919453524651,
23      "cuisine": [
24        {
25          "id": 1,
```

5. Implement MVC architecture for posting a new restaurant data to restaurant.json file. The example URL end point is “localhost:8900/postRestaurants”

The expected output is shown below.



A screenshot of a REST client interface. The top bar shows a 'POST' method and the URL 'localhost:8900/postRestaurants'. Below the bar, there are tabs for 'Pretty', 'Raw', and 'Preview', with 'JSON' selected. The response body is displayed in a code editor with line numbers 1, 2, and 3. The JSON response is: { "message": "data posted successfully" }

```
1 {  
2   "message": "data posted successfully"  
3 }
```