**Coffee Stall Application**

Coffee Stall RESTful web service provides certain operations on the coffee house. It helps in keeping track of the customer details, variety of coffees available for the day.  
It also generates the report on sales made.

**Service Specification**

| **#** | **Operation Detail** | **End-point** |
| --- | --- | --- |
| 1 | Add Coffee for the day | <HTTP-protocol>://<server-ip>:<port>/coffees |
| 2 | Add Customer | <HTTP-protocol>://<server-ip>:<port>/customers |
| 3 | Make an order on coffees | <HTTP-protocol>://<server-ip>:<port>/orders |
| 4 | Generate report for the day | <HTTP-protocol>://<server-ip>:<port>/reports |

* **Add Coffee for the day**

The Service will create and add the Coffee details for the day.

| **HTTP Method** | **End-point** | **Header** |
| --- | --- | --- |
| POST | /coffees | Content-Type: application/json |

| **Request Template - JSON** |
| --- |
| {      **"coffee"**:{         **"coffeeName"**:"Cappuccino",       **"description"**:"Composed of double espresso and hot milk, with the surface topped with foamed milk",       **"cost"**:50    },    **"servingDate"**:"2018-05-26",    **"totalServings"**:100,    **"servingsLeft"**:100 } |

| **Response Template - JSON** |
| --- |
| {      **"statusCode"**:"CS-201",    **"statusMessage"**:"Coffee Data for the day Created!" } |

| **Status Code** | **Message** | **Type** |
| --- | --- | --- |
| CS-201 | Coffee Data for the day Created! | Success |
| CS-412 | The resource already exists! | Error |

* **Add Customer**

The Service, stores the customer details to system with name and contact number details.

| **HTTP Method** | **End-point** | **Header** |
| --- | --- | --- |
| POST | /customers | Content-Type: application/json |

| **Request Template - JSON** |
| --- |
| {      **"name"**:"Pradeep",    **"contactNumber"**:"+91-9739468874" } |

| **Response Template - JSON** |
| --- |
| {      **"statusCode"**:"CS-201",    **"statusMessage"**:"Customer Data Created!" } |

| **Status Code** | **Message** | **Type** |
| --- | --- | --- |
| CS-201 | Customer Data Created! | Success |
| CS-412 | The resource already exists! | Error |

* **Make an order on coffees**

The service is used to make an order. Multiple coffees can be ordered in one request.

| **HTTP Method** | **End-point** | **Header** |
| --- | --- | --- |
| POST | /orders | Content-Type: application/json |

| **Request Template - JSON** |
| --- |
| {      **"date"**:"2018-05-26",    **"customer"**:{         **"name"**:"Pradeep",       **"contactNumber"**:"+91-9739468874"    },    **"coffees"**:[         {            **"coffeeName"**:"Cappuccino",          **"count"**:4       },       {            **"coffeeName"**:"Espresso",          **"count"**:2       }    ] } |

| **Response Template - JSON** |
| --- |
| {      **"statusCode"**:"CS-200",    **"statusMessage"**:"The order has been placed.",    **"receipt"**:{         **"receiptNumber"**:"1527292800000",       **"receiptDate"**:"2018-05-28T21:16:16.122+0000",       **"customer"**:{            **"name"**:"Pradeep",          **"contactNumber"**:"+91-9739468874"       },       **"coffeeOrders"**:[            {               **"coffeeName"**:"Cappuccino",             **"count"**:4          }       ],       **"totalCost"**:200    } } |

| **Status Code** | **Message** | **Type** |
| --- | --- | --- |
| CS-200 | The order has been placed. | Success |
| CS-404 | Coffee not available! | Error |

* **Generate report for the day**

The service generates the report for the day.

| **HTTP Method** | **End-point** | **Header** |
| --- | --- | --- |
| GET | /reports?date=<dd-MM-yyyy> | Content-Type: application/json |

| **Response Template - JSON** |
| --- |
| {      **"statusCode"**:"CS-200",    **"statusMessage"**:"The Report for the day retrived successfully",    **"coffeesForTheDay"**:[         {            **"coffee"**:{               **"coffeeName"**:"Cappuccino",             **"description"**:"Composed of double espresso and hot milk, with the surface topped with foamed milk",             **"cost"**:50          },          **"servingDate"**:"2018-05-26T00:00:00.000+0000",          **"totalServings"**:100,          **"servingsLeft"**:98       }    ] } |

| **Status Code** | **Message** | **Type** |
| --- | --- | --- |
| CS-200 | The Report for the day retrived successfully | Success |