RESTAURANT RESERVATION REST API

Version	1.0.0
Last Date Modified	December 19, 2024
Author	Kim Justine Ferriol

Description

The Restaurant Reservation REST API aims to easily manage the creation and update of customer reservation. This involves the creation of reservation given the customer details, cancel reservation, view all customer reservations and update customer reservation date and number of guests, which will also notify and remind the customer via their preferred contact mode.

Create New Reservation

Description: Create and save new customer reservation

Method Type: POST

Path: v1/reservation

PARAMETERS (Request Body)

Parameter Name	Description	Datatype	Require
customerName	Name of Customer	String	Mandatory
phoneNumber	Mobile or Telephone to be used to contact	String	Mandatory
email	Email to be used to contact	String	Mandatory
reservationDatetime	Preferred schedule. Should be in format: yyyy-MM-ddTHH:ss:mm **Must be in between 30 mins.**	LocalDateTime	Mandatory
guestNumber	Total number of guests to reserve a seat	Integer	Mandatory
contactChannel	SMS or EMAIL to which notification and reminder will be send	String	Mandatory

REQUEST BODY

Content-type	Application/json

```
{
   "customerName": "Kim",
   "phoneNumber": "9170239821",
   "email": "kim@email.com",
   "reservationDatetime": "2024-12-19T06:11:30",
   "guestNumber": 3,
   "contactChannel": "sms"
}
```

RESPONSE

Content-type	Application/json

{
   "message": "Successfully Inserted.",
   "reservationId": "RESV2412190337331233"
 }	

Parameter Name	Description	Datatype
message	Status of the Reservation	String
reservationId	Auto generated Id	String

Get All Reservation by Customer Name

Description: Retrieve all reservation of the customer in ascending order

Method Type: GET

Path: v1/reservation/customerName/{{customerName}}

PARAMETERS (Path Variable)

Parameter Name	Description	Datatype	Require
customerName	Name of Customer	String	Mandatory

RESPONSE

Content-type	Application/json

```json
[
  {
    "reservationId": "RESV2412190210301230",
    "customerName": "Kim",
    "phoneNumber": "12345",
    "email": "wil@y.com",
    "reservationDatetime": "2024-12-19T06:11:00",
    "guestNumber": 3,
    "status": true,
    "contactChannel": "email",
    "createdDate": "2024-12-19T14:10:30",
    "updatedDate": "2024-12-19T14:10:30"
  },
  {
    "reservationId": "RESV2412190337331233",
    "customerName": "Kim",
    "phoneNumber": "9170239821",
    "email": "kim@email.com",
    "reservationDatetime": "2024-12-19T06:11:30",
    "guestNumber": 3,
    "status": true,
    "contactChannel": "sms",
    "createdDate": "2024-12-19T15:37:33",
    "updatedDate": "2024-12-19T15:37:33"
  }
]
```

Parameter Name	Description	Datatype
customerName	Name of Customer	String
phoneNumber	Mobile or Telephone to be used to contact	String
email	Email to be used to contact	String
reservationDatetime	Preferred schedule. Should be in format: yyyy-MM-ddTHH:ss:mm	LocalDateTime
guestNumber	Total number of guests to reserve a seat	Integer
contactChannel	SMS or EMAIL to which notification and reminder will be send	String
status	True if reservation is Active False if reservation is Cancelled	Boolean
createdDate	Date and time of Reservation created	LocalDateTime
updatedDate	Last Updated date and time of the Reservation	LocalDateTime

Get Reservation Details by Reservation Id

Description: Retrieve reservation details by reservation Id

Method Type: GET

Path: v1/reservation/reservationId/{{reservationId}}

PARAMETERS (Path Variable)

Parameter Name	Description	Datatype	Require
reservationId	The ID of the reservation	String	Mandatory

RESPONSE

Content-type	Application/json

```
{
    "message": "Successefully Cancelled.",
    "reservationId": "RESV2412190337331233"
}
```

Parameter Name	Description	Datatype
customerName	Name of Customer	String
phoneNumber	Mobile or Telephone to be used to contact	String
email	Email to be used to contact	String
reservationDatetime	Preferred schedule. Should be in format: yyyy-MM-ddTHH:ss:mm	LocalDateTime
guestNumber	Total number of guests to reserve a seat	Integer
contactChannel	SMS or EMAIL to which notification and reminder will be send	String

status	True if reservation is Active False if reservation is Cancelled	Boolean
createdDate	Date and time of Reservation created	LocalDateTime
updatedDate	Last Updated date and time of the Reservation	LocalDateTime

Update Reservation by Reservation Id

Description: Update the reservation date and number of guest by reservation id

Method Type: PUT

Path: v1/reservation/reservationDateAndGuest

PARAMETERS (Request Body)

Parameter Name	Description	Datatype	Require
reservationId	The ID of the reservation	String	Mandatory
newReservationDate	New Reservation date following format yyyy-MM-ddTHH:ss:mm	LocalDateTime	Mandatory
newGuestNumber	New number of guests to reserve	Integer	Mandatory

RESPONSE BODY

Content-type	Application/json

```
{
    "reservationId": "RESV2412190337331233",
    "newReservationDate ": "2024-12-29T05:13:10",
    "newGuestNumber": 4
}
```

RESPONSE

Content-type	Application/json

```
{
    "message": "  Successefully Updated.",
    "reservationId": "RESV2412190337331233"
}
```

Parameter Name	Description	Datatype
message	Status of the Reservation	String

reservationId	The Reservation Id that was updated	String

Cancel Reservation by Reservation Id

Description: Cancels the reservation-by-reservation id

Method Type: PUT

Path: v1/reservation/cancel?reservationId={{reservationId}}

PARAMETERS (Request Param)

Parameter Name	Description	Datatype	Require
reservationId	The ID of the reservation	String	Mandatory

RESPONSE

Content-type	Application/json

```
{
    "reservationId": "RESV2412190210301230",
    "customerName": "Kim",
    "phoneNumber": "12345",
    "email": "wil@y.com",
    "reservationDatetime": "2024-12-19T06:11:00",
    "guestNumber": 3,
    "status": true,
    "contactChannel": "email",
    "createdDate": "2024-12-19T14:10:30",
    "updatedDate": "2024-12-19T14:10:30"
}
```

Parameter Name	Description	Datatype
message	Status of the Reservation if successfully cancelled	String
reservationId	Reservation Id that was cancelled	String