Voucher Pool Documentation

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| --- | --- | --- |
| Endpoint | Method | Descriptions |
| /api/voucherPool/generateVoucher | POST | To generate voucher code for customer based on Offer Code and Expiry Date |
| /api/voucherPool/validateVoucher | POST | To validate voucher and return discount percentage |
| /api/voucherPool/getActiveVoucher | POST | To get list of active voucher available for the customer |

# Voucher Pool Service

## Generate Voucher

This service generates voucher codes for all customer, based on the given offer name and expiry date. Customers with existing voucher code for the same offer will not be given new codes.

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| --- | --- |
| API Path | https://<server>/voucher-pool/api/voucherPool/generateVoucher |
| Method | POST |

### Request

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter Name | Data Type | Mandatory? | Description |
| offerName | String | Yes | Offer Name, as registered in the Database |
| expiryDate | Date  Format: yyyy-MM-dd | Yes | Expiry date for the voucher code generated |

Sample Request

|  |
| --- |
| {  "offerCode": "Offer1",  "expiryDate" : "2021-03-31"  } |

### Response

| Parameter Name | Data Type | Description |
| --- | --- | --- |
| status | int | Status of the request  0 = Success  1 = Failed |
| count | int | Number of records available in datas |
| datas | Map<String, String> | List of customer email and generated voucher code |
| error | ErrorResponse | Error object  If Status = 0, no value will be returned |

Sample Response

|  |
| --- |
| {      "status": 0,      "error": **null**,      "datas": {          "joe.smith@mail.com": "qDMoSVgEi9",          "sammi.tan@mail.com": "PBwUWSZgt3"      },      "count": 2  } |

## Validate Voucher

This service validates the provided voucher code and customer email. If it’s a valid request, the service will return the discount percentage of the offer.

Service will return error if the voucher code already used or beyond the expiry date

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| --- | --- |
| API Path | https://<server>/voucher-pool/api/voucherPool/validateVoucher |
| Method | POST |

### Request

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter Name | Data Type | Mandatory? | Description |
| voucherCode | String | Yes | Voucher code |
| email | String  Format: Valid email format | Yes | Customer’s email |

Sample Request

|  |
| --- |
| {      "voucherCode": "D6Onm48YYA",      "email" : "john.doe@mail.com"  } |

### Response

| Parameter Name | Data Type | Description |
| --- | --- | --- |
| status | int | Status of the request  0 = Success  1 = Failed |
| count | int | Default value: 0 |
| datas | Map<String, String> | Map with the below key-value   1. offerName 2. discount |
| error | ErrorResponse | Error object  If Status = 0, no value will be returned |

Sample Response

|  |
| --- |
| {      "status": 0,      "error": **null**,      "datas": {          "offerName": "Offer2",          "discount": 5.5      },      "count": 0  } |

## Get Active Voucher

This service will retrieve list of available voucher code for the provided Customer’s email.

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| --- | --- |
| API Path | https://<server>/voucher-pool/api/voucherPool/getActiveVoucher |
| Method | POST |

### Request

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter Name | Data Type | Mandatory? | Description |
| email | String  Format: Valid email format | Yes | Customer’s email |

Sample Request

|  |
| --- |
| {  "offerCode": "Offer1",  "expiryDate" : "2021-03-31"  } |

### Response

|  |  |  |
| --- | --- | --- |
| Parameter Name | Data Type | Description |
| status | int | Status of the request  0 = Success  1 = Failed |
| count | int | Number of records available in datas |
| datas | List<ValidVoucher> | List of ValidVoucher object |
| error | ErrorResponse | Error object  If Status = 0, no value will be returned |

Sample Response

|  |
| --- |
| {      "status": 0,      "error": **null**,      "datas": [          {              "voucherCd": "LAgJgzkex2",              "offerName": "Offer1",              "offerDiscount": 10,              "expiryDate": "2021-03-31"          },          {              "voucherCd": "D6Onm48YYA",              "offerName": "Offer2",              "offerDiscount": 5.5,              "expiryDate": "2021-03-31"          }      ],      "count": 2  } |

# Common Response Object with Error

## Common Response

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Remarks |
| status | int | 0 = Success  1 = Failed |
| count | int | Number of records available in datas |
| datas | Object | The object type will be determine by which service is returning from.  If Status is 1, no value will be returned |
| error | ErrorResponse | Error object  If Status = 0, no value will be returned |

## Error Response

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Remarks |
| errorCode | String | Error code, to identify error type |
| errorMessage | String | Error message, describing the error encounted |

Sample Error Response

|  |
| --- |
| {      "status": 1,      "error": {          "errorCode": **null**,          "errorMessage": "Voucher already expired"      },      "datas": **null**,      "count": 0  } |

## ValidVoucher

|  |  |  |
| --- | --- | --- |
| Variable Name | Data Type | Remarks |
| voucherCd | String | Unique voucher code |
| offerName | String | Offer Name |
| offerDiscount | Double | Discount Percentage for the Offer |
| expiryDate | Date | Voucher code expiry date |

# Sample PostMan Collection

Link: <https://app.getpostman.com/run-collection/9d02d8a02d0431dfe714>

# Source Code

Link: https://gitlab.com/amy.chuah/voucher-pool