**API and Interface file Specification Doc for Greyhound Kiosks**

**(*Direct Reward Travel Vouchers)***

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1. | 25/05/2020 | H Sadie | Greyhound APIs |
| 1.1 | 10/06/2020 | H Sadie | Removed return trip, it will be handled as a trip on its own. Greyhound Request |
| 1.2 | 13/07/2020 | H Sadie | Replace Buscode with City (arrival and departure) |
| 1.3 | 28/07/2020 | H Sadie | Remove Name, Surname and Cell number from final call  due to POPI |

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Methods

# Introduction

The purpose of this document is to detail and demonstrate the usage of the Travel Voucher Acquisition REST Web Service API. It is important to note that this is a .NET RESTFUL Web Service written using the lightweight Web API 2.0 Framework. Due to its flexibility, you can easily switch between receiving XML or JSON as your response. Its intention is to provide required resources in a quick, simple and little sizes thus boosting usage on different platforms including the laziest mobile device.

Conventions

# Standards

* **Client** - Client application.
* **Status** – .NET Web API uses the standard known HTTP Status Codes of response.
* A POST request to a Web API is configurable. You can post an **HTML form** (Content-Type: application/x-www-form-urlencoded), **JSON** (Content-Type: application/json), or even **XML** (Content-Type: application/xml) provided tags match the parameters expected on such a request on the API. Examples below will be based on **JSON** requests and responses.
* Similar to a request, you can configure your application to receive either XML (Accept: text/xml, application/xml) or JSON (Accept: text/json, application/json).
* All request parameters are mandatory unless explicitly marked as [optional]
* The type of values accepted for a *request* parameter are shown in the values column like this [**10**|<any number>]. The | symbol means *OR*. If the parameter is [optional], the default value is shown in blue bold text, as **10** is written in [**10**|<any number>].
* **All fields marked with a \* are mandetory**

Calls

# Login

Authenticate the user with the system by making a POST request with the assigned **APIKey** and obtain an **AccessToken** to be utilized during a given session. An AccessToken is valid for **30 minutes**, you can request a new AccessToken by making another request to this API Call which will overwrite an existing AccessToken with a new one, if any exist.

Url = <https://www.testdirectrewards.co.za/api/Authorisation/Authenticate> (for the testing)

Url = <https://www.directrewarding.co.za/api/Authorisation/Authenticate> (for the Production)

# AUTHENTICATE

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | Url = <https://www.testdirectrewards.co.za/api/Authorisation/Authenticate> (for the testing)  Url = <https://www.directrewarding.co.za/api/Authorisation/Authenticate> (for the Production) |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Values** |
| string **\*** | apikey | API Key assigned to your API Usage (string)  Use **\_\*\*\*\*\*\*\*\*\*\*\*\*\_** for testing  API Key assigned to your API Usage (string)  Use **\_\*\*\*\*\*\*\*\*\*\*\*\*\_** for production  (The key will be shared with you via email) |
| Request Header | Accept: text/json  Content-Type: application/json | |
| Request Body | {  “APIKey”: “\_\*\*\*\*\*\*\*\*\*\*\*\*\*\*\_”  } | |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  “Authorized”:true,  “AccessToken”:”4efb40d8852084051435a1c9bc0399bf89a4e581”  }  AccessToken (**string**) - all further API calls must have this token in the header |
| 401 | {“Message”:”The provided authentication details are not valid.”} |
| 400 | {“Message”:”Request failed because there are no required parameters specified.”} |

# Example:

Post:

{

"APIKey": "\_99999testGhb\_"

}

Response:

{

"Authorized": true,

"AccessToken": "f968fd3b694e3bdea1412419db0a72ec30f1e8fd-3140e80e94-3ab3a8aacdaec939799f1cfd7d2a17"

}

# DISCOUNT (POST)

Use this request to get the appropriate discount for a member either by submitting the SA ID number or Passport number. Depending on the arrangement with our trading parther, the discount amount or voucher value will be returned. If a voucher value is returned then the a voucher reference will be returned as well. The DRReference number is a unique identifier and should be returned with the trip information.

IF a response code of 0 is returned it means that the member does not exist or that there is no discount for the route.

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | <https://www.testdirectrewards.co.za/api/Member/Discount> (for the testing)  <https://www.directrewarding.co.za/api/Member/Discount> (for the Production) |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Description** |
| string \*  string (50) \*  String (50)  string (50) \*  String(50) \*  datetime \*  string (50) | AccessToken  IDNumber  MembershipNo  DepartureCity  ArrivalCity  DepartureTime  UniqueReference | - <assigned to this session>  - SA ID Number or Passport number  - Membership no (Optional)  - City of Trading Partner for departure  - City for Trading Partner for Arrival  - Departure date and time  - Unique Reference for Use by Trading Partner |
| Request Header | Accept: text/json  Content-Type: application/json  AccessToken: 4efb40d8852084051435a1c9bc0399bf89a4e581 | |
| Request Body | [{  “IDNumber”:”AN123456789D”,  “DepartureCity”:” Paarl”,  “ArrivalCity”:”Pretoria”,  “DepartureTime”:” 2020-06-15T11:00:00”  “UniqueReference”:””  },{},{}] | |
|  |  | |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200  (found) | [{"Voucher": “XYV99999999”,  “ResponseCode”:”1”,  "Discount": 15.00,  “RandValue”:null,  “DRReference”:”76eh9yx54301”,  “ArrivalCity”:” Pretoria”,  “CampaignCode”:”XXXYYYXXXYY”,  “DepartureCity”:” Paarl”,  “UniqueReference”:”AB9998887766”,  },{},{}] |
| 200  (Not Found) | [{“ResponseCode”:”0”,  “CampaignCode”:”0”,  “DepartureCity”:””,  “ArrivalCity”:””,  "Discount": 0.00,  “RandValue”:0.00,  "Voucher": “”,  “DRReference”:””,  },{},{}] |
| 400 | {“Message”:”Access Token not specified.”} |
| 400 | {“Message”:”Invalid Access Token.”} |
| 401 | {“Message”:”Unauthorized”} |
| 400 | {“Message”:”Invalid ID or Membership Number.”} |
| 400 | {“Message”:”City Required”} |
| 400 | {“Message”:”DepartureTime Required:”} |
| 403 | {“Message”:”Something went wrong. Please try again later.”} |

# Example

Post

{

"IdNumber":"7210035098084",

"DepartureCity":"Paarl",

"ArrivalCity":"Pretoria",

"DepartureTime":"",

"UniqueReference":"hs20200608230000"

}

Response

[

    {

        "Voucher": "",

        "ResponseCode": 1,

        "Discount": 5.00,

        "RandValue": null,

        "DRReference": "a230222ba0",

        "ArrivalCity": "Pretoria",

        "CampaignCode": "TESTGHB",

        "DepartureCity": "Paarl",

        "UniqueReference": "hs20200608230000",

    }

]

# TRIP (POST)

Once the booking is done on our Trading partner’s system, the details of the booking will be sent back to Direct Rewards for recording on our side.

**Request**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | <https://www.testdirectrewards.co.za/api/Member/Trip> (for the testing)  <https://www.directrewarding.co.za/api/Member/Trip> (for the Production) |

|  |  |  |
| --- | --- | --- |
| **Type** | **Params** | **Description** |
| string **\***  string **\***  string (50) **\***  string (50) **\***  Decimal**\*** | AccessToken  CampaignCode  - UniqueReference  - DRReference  - TripCost | - <assigned to this session>  - Campaign Code  - A Unique Key (Trading Partner’s unique key)  - DR Reference sent in previous response  - TripCost (without discount) |
| Request Header | Accept: text/json  Content-Type: application/json  AccessToken: 4efb40d8852084051435a1c9bc0399bf89a4e581 | |
| Request Body | {  “CampaignCode”:”GH00100105”,  “UniqueReference”:”123456”,  “DRReference”:”efg123av456e2”,  “TripCost”:850.00,  } | |
|  |  | |

**Response**

|  |  |
| --- | --- |
| **Status** | **Response** |
| 200 | {  “ResponseCode”:”0”,  “UniqueCustomerKey”:”123456”  } |
| 400 | {“Message”:”Request failed because there are no required parameters specified.”} |
| 400 | {“Message”:”Please specify a CampaignCode.”} |
| 400 | {“Message”:”Invalid CampaignCode.”} |
| 400 | {“Message”:”Please specify a UniqueReference.”} |
| 400 | {“Message”:”Please specify Trip Details.”} |
| 400 | {“Message”:”Please specify Trip Cost.”} |
| 400 | {“Message”:”Invalid Access Token.”} |
| 401 | {“Message”:”Unauthorized”} |
| 403 | {“Message”:”Something went wrong. Please try again later.”} |
|  |  |
|  |  |

# Example

Post

{

"CampaignCode":"TESTGHB",

"UniqueReference":"hs20200608230000",

"DRReference":"43beabc23a",

"TripCost":810.00,

}

**Response**

{

    "ResponseCode": 1,

    "DRRerence": "43beabc23a",

    "TradingPartnerKey": "hs20200608230000"

}

# DAILY TRANSACTION FILE (SFTP)

At the end of each day a daily comma delimited transaction file will be sent to Trading Partner via SFTP. The layout of this file is as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Chacteristic** | **Example Value** | **Description** |
| Campaign Code | Alphanumeric | GH001000102 |  |
| Unique Key | Alphanumeric | 201909000000 | Trading Partners’s UniqueCustomerKey |
| Invoice Status | Numeric | 1 | 0=No Discount, 1=Discount |
| DRReference | Alphanumeric | d70961fee9 | DR Unique transaction key |
| TripDate | DateTime | 2019-09-11T00:08:00 | Trip Date |
| DepartureCity | Alphanumeric | Johannesburg |  |
| Arrival City | Alphanumeric | Durban |  |
| Transaction Date | DateTime | 2019-09-11T00:08:00 | System Date |
| TripAmt | Money | 120 | TripAmount before Discount |
| Discount Amt | Money | 225 | Discount Amount |
| ActualAmount | Money | 130 | TripAmount-DiscountAmount |
| Decline Reason | Alphanumeric |  | If the status is 0 then the reason will be stored here |

Programmer Notes:

Generate a daily file with headings and send to Greyhound.