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Preface

This Document

This document provides detail information on the integration points required to enable the services and features of the Amole Platform within the Amole Marketplace online eCommerce site. Each service is described in detail, including the steps and sample code required by the development team to bring the Customer Journey to life.

Intended Audience

This document is intended for stakeholders and technical staff to be able to understand the integration to Amole and services to be provided within the Amole Marketplace.

Living Document

This document will be revised and grow accordingly ahead of the overall development efforts of the Amole Marketplace.

Revision History

Version	Date	Team Member	Description
1.0	25 Feb 2021	Doug Deneau	Initial release
1.1	27 Feb 2021	Doug Deneau	Additional content release
1.2	04 Mar 2021	Doug Deneau	Added Digital Content section
1.3	10 Mar 2021	Doug Deneau	Completed Digital Content, Added Send Amole, Added options to be shown for My Amole
1.4	10 Mar 2021	Doug Deneau	Added detail for My Amole button drop-down menu

Overview of Amole APIs to be Utilized

The Amole Marketplace will have several integration points to the Amole Platform. There are two main APIs which will be utilized by the Amole Marketplace. The list of services from each API is shown below. Each Payment Gateway Action and Service API will be described in detail in the sections that follow at each integration point of the marketplace.

Amole Payment Gateway

The Amole Payment Gateway is a rigid web service which process payments for purchases (sales), airtime and bill payment.

Payment Action	Description	Instructions
01	Sale	Payment for goods and services from a customer's digital wallet. Source account information can be the customer's Card Number (with PIN and Exp. Date) or Mobile Number with OTP.
20	Airtime Top-up	Purchase PIN-Based or PINless airtime minutes for mobile phone topup.
31	Bill Payment	Issue customer payment (bill) for an available vendor.

Sample call to the Payment Gateway

Below is the standard format for a call to the Amole Payment Gateway. Consult the Amole Payment Gateway Reference Guide for more detailed information.

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/pay",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM ",
    "HDR_IPAddress": "0.0.0.0",    ← we will have to whitelist this in Amole
    "HDR_UserName": "Abishek",
    "HDR_Password": "test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "+251911999999",
    "BODY_ExpirationDate": "",
    "BODY_PIN": "9999",
    "BODY_PaymentAction": "01",
    "BODY_AmountX": "123.45",
    "BODY_AmoleMerchantID": "MARKETPLACE",
    "BODY_OrderDescription": "Description of transaction",
    "BODY_SourceTransID": "MarketplaceUniqueTransID",
    "BODY_VendorAccount": "",
    "BODY_AdditionalInfo1": "",
    "BODY_AdditionalInfo2": "",
    "BODY_AdditionalInfo3": "",
    "BODY_AdditionalInfo4": "",
    "BODY_AdditionalInfo5": ""
  }
};
```

Amole Service Integration APIs

This web service is a collection of services which expose the core functionality of the Amole back-end platform. The services to be utilized by the Amole Marketplace are listed below.

Services	Description
Customer	
AccountGet	To view detailed account information for this customer's account in the Amole system, including the last 5 transactions.
CustomerAdd	To create a new customer in the Amole system.
CustomerGet	To view current customer detailed information stored in the Amole system.
CustomerUpdate	To update any of an exposed set of fields into the Amole system.
DStvBillLookup	To retrieve a customer's bill through the integration to DStv's back office.
SendSMS	To send an SMS Text message to an existing Amole customer.
SendEmail	To send an Email to a customer for OTP, alerts or Notifications.
TransactionsGet	To query account transactions using a reference number from the last time the AccountSync operation was called. If no reference number is passed, the last 5 transactions are returned.
ValidateCard	To verify a customer exists and card information is valid and active. If an amount is included, then the account will be checked for sufficient funds.
Content	
BillLookup	To retrieve bill information hosted at ETH Switch which is integrated to various government-associated billing services.
BillServiceProviders	To retrieve the list of valid bill pay service providers available through Amole.
ContentGet	To retrieve the entire catalog of content and items available for sale.
ContentGetTypes	To lookup the types of content available for sale to customer.
ContentGetCat	To retrieve the categories (events) available for a content type.
ContentGetIcon	To retrieve the corresponding icon for the content category.
ContentGetItems	To lookup the items available for a content category (event) ID.
ContentCalc	Calculates the total payment amount for a potential content purchase.
ContentGetItem	To lookup the detail for an <u>item that was sold</u> .
Transaction	
AirtimeGetPIN	To lookup the PIN and Serial Number from a mobile airtime top-up purchase.
Donation	To accept a customer donation for a charitable cause.
OTPSend	To send an OTP (One-Time PIN) to a customer for verification purposes.
OTPSendEmail	To send an OTP (One-Time PIN) to a customer via email for verification.
OTPVerify	To verify an OTP that was sent to the customer.
Reversal	To process a transaction reversal within an open business day.
TransferP2P	To process a transfer from one customer account to another customer account in the Amole system.
VerifyRequest	To lookup a prior API call or posted transaction for verification of posting information.

Sample call to the Service Integration APIs

Below is a sample call to the Amole Services. Consult the Amole Service Integration API Reference Guide for more information.

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  }
}
```

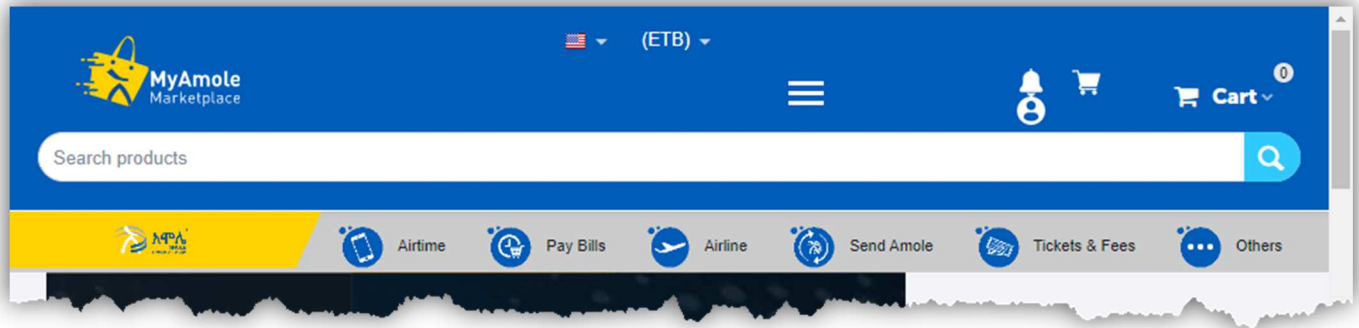
```
},  
"data": {  
  "BODY_ServiceRequest": "<Service>CustomerGet</Service><KeyValue>+251911999999</KeyValue>", ← service info  
  "BODY_SourceTransID": "YourUniqueTransID"  
}  
};
```

Integration Points

Each section of the Marketplace will be described in separate sections in detail.

Home Page – Amole Toolbar

The Amole toolbar exposes financial services available from the Amole platform.



When the user clicks on one of the toolbar items in the menu, we should open up a new page and handle the transactions.

Send Amole

This service will allow the customer to send money as a P2P Transfer to another customer out of their wallet balance. This is also considered a Domestic Money Transfer.

The user will enter the amount to be transferred in ETB and the recipient mobile number. The user will then click on the "Send OTP" button to request and OTP to be sent to the customer using the OTPSend service. Set the IncludeEmail flag to "Y" so that an email will also be sent if the customer has an email address on file.

How much would you like to send:

Enter mobile number of recipient:

Send OTP

Enter OTP:

Submit

<submit the request>

Send Amole Successful!

Amount: **100 ETB**

Reference Number: **9999999**

Confirmation Number: **99999999999**

Thank you for using Amole!

Amole Service API: OTPSend

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>OTPSend</Service><MobileNumber>+251911999999</MobileNumber>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Amole Service API: TransferP2P

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>TransferP2P</Service><MerchantID>YourMerchantID</MerchantID><SourceAccount>+251911654321</SourceAccount><OTP>9999</OTP><DestMobile>+251911987654</DestMobile><Amount>123.45</Amount>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Airtime

We are going to break this up into two phases. For phase I we will offer PIN-Based top-up only, and for phase II we will change to pinless topup and post-paid bill payment.

Recipient of Airtime

Country: Ethiopia

Telco: Ethiopia Telecom

☐ Myself ☐ Someone else:

Select top-up amount:

- ☐ 25 Birr ☐ 250 Birr
☐ 50 Birr ☐ 500 Birr
☐ 100 Birr ☐ 1000 Birr

Send the OTP to the customer using the OTPSend service. Set the IncludeEmail flag to "Y" so that an email will also be sent if the customer has an email address on file.

Next prompt for the OTP and account to pay from. To get the list of accounts, call the CustomerGet service and display the account name as a drop-down list selection.

Send OTP

Enter OTP:

Pay from Account:

Submit

After hitting submit we need to show the receipt information and the airtime PIN as shown below.

Airtime purchase successful!

PIN: xxxxxxxxxxxxxxxxxxxx

Serial #: xxxxxxxxxxxxxxxxxxx

Amount: **100 ETB**

Reference Number: **999999**

Confirmation Number: **9999999999**

Thank you for using Amole.

Amole Service API: OTPSend

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZlakDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>OTPSend</Service><MobileNumber>+251911999999</MobileNumber>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Amole Payment Gateway API: Purchase Airtime (20)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZlakDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "+251911999999", ← mobile wallet, current user, for payment
    "BODY_ExpirationDate": "",
    "BODY_PIN": "????",
    "BODY_PaymentAction": "20",
    "BODY_AmountX": "100",
    "BODY_AmoleMerchantID": "MARKETPLACE",
    "BODY_OrderDescription": "Airtime topup",
    "BODY_SourceTransID": "MarketplaceUniqueTransID",
    "BODY_VendorAccount": "",
    "BODY_AdditionalInfo1": "P",
    "BODY_AdditionalInfo2": "+251888888888", ← Only required if sending airtime to another person
    "BODY_AdditionalInfo3": "",
    "BODY_AdditionalInfo4": "",
    "BODY_AdditionalInfo5": ""
  }
};
```


Amole Service API: AirtimeGetPIN

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZlakDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
```

```
"HDR_Password": "Test",
"Content-Type": "application/x-www-form-urlencoded"
},
"data": {
  "BODY_ServiceRequest": "<Service>AirtimeGetPIN</Service><MerchantID>MARKETPLACE</MerchantID>
<KeyValue>123456</KeyValue>",
  "BODY_SourceTransID": "YourUniqueTransID"
}
};
```

Pay Bills

We have two types of bills: Government or Other. Please use the flow and formatting below for bill payment services.

<div>  Government Bills </div> <div> Other Bills </div>		← Selection of G=Gov, O=Other.
Which bill would you like to pay: <input type="text"/>		List from BillServiceProviders service API call.
Account Number: <input type="text"/> <i>(Label will be loaded from the configuration)</i>		← Label/Prompt 1
Bill/Invoice ID: <input type="text"/> <i>(Label will be loaded from the configuration)</i>		← Label/Prompt 2 – OPTIONAL, only if value
<div>Find My Bill</div>		← call Fattan Payment Gateway with Action = 30. Sample calls are in APPENDIX A.
BillInfoLabel#1: BillInfoData#1 BillInfoLabel#2: BillInfoData#2 BillInfoLabel#3: BillInfoData#3 BillInfoLabel#4: BillInfoData#4 BillInfoLabel#5: BillInfoData#5 BillInfoLabel#6: BillInfoData#6 BillInfoLabel#7: BillInfoData#7 BillInfoLabel#8: BillInfoData#8 BillInfoLabel#9: BillInfoData#9 BillInfoLabel#10: BillInfoData#10	← we will pass back 10 of each field label and data for generic bill presentment. We will fill in starting from the top (#1) and each additional piece of information immediately below the prior line. Please display each non-blank label and data line. You may get the first 2 lines with information to display or you may get up to 10 lines of information to display. Please refer to the screen flow in next section. Data comes back in JSON_AdditionalData field.	
Pay from this account: <input type="text"/> Topup my account	← Wallet, Prepaid or Current (not sure about savings), current would first settle with FLEXCUBE.	
Amount Due/Bill Amount: <input type="text"/> 50.00 Amole Service Fee: 10.00 Total Payment Amount: 60.00	← Allow customer to change if AllowPartial = Y, otherwise customer cannot change value.	
<<<< SHOW DISCLAIMER >>>>		← Returned in response from Bill Lookup.

Send OTP

Enter OTP: 9999

Pay from Account: Amole Mobile Wallet

Submit

Upon hitting Submit, call the Amole Payment Gateway with action code 31 (shown below) and receive the response. If error, please show the error information and allow to correct. If success, show the receipt information as shown below.

Bill Payment Successful!

Reference Number: **99999999**

Confirmation Number: **999999999999**

Thank you for using Amole!

Amole Service API: BillServiceProviders

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>BillServiceProviders</Service><Type>G</Type>", ← or "O"
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Amole Service API: BillLookup

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest":
    "<Service>BillLookup</Service><BillerID>110</BillerID><Value1>XXXXXXXXXX</Value1><Value2></Value2>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Amole Service API: OTPSend

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
```

```
"headers": {
  "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
  "HDR_IPAddress": "0.0.0.0",
  "HDR_UserName": "Abishek",
  "HDR_Password": "Test",
  "Content-Type": "application/x-www-form-urlencoded"
},
"data": {
  "BODY_ServiceRequest": "<Service>OTPSend</Service><MobileNumber>+251911999999</MobileNumber>",
  "BODY_SourceTransID": "YourUniqueTransID"
}
};
```

Amole Payment Gateway API: Bill Payment (31)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "+251911999999",    ← mobile wallet, current user, for payment
    "BODY_ExpirationDate": "",
    "BODY_PIN": "????",
    "BODY_PaymentAction": "31",
    "BODY_AmountX": "50.00",
    "BODY_AmoleMerchantID": "MARKETPLACE",
    "BODY_OrderDescription": "Bill payment",
    "BODY_SourceTransID": "MarketplaceUniqueTransID",
    "BODY_VendorAccount": "XXXXXXXXXX",    ← Value from Prompt 1
    "BODY_AdditionalInfo1": "BSP",
    "BODY_AdditionalInfo2": "123",         ← Biller ID Number
    "BODY_AdditionalInfo3": "",            ← Value from Prompt 2 (optional)
    "BODY_AdditionalInfo4": "10.00",      ← Fee Amount
    "BODY_AdditionalInfo5": ""
  }
};
```


Airline

Currently we only have Ethiopian Airlines online for payments with Amole. The customer must lookup the amount they owe by providing their PNR number. We perform a Bill Lookup and then take payment.

Enter PNR:

Lookup My Reservation

Reservation was found.

Amount Due: **1,234.56 ETB**

Send OTP

Enter OTP:

Pay from Account:

Submit

Bill Payment Successful!

Reference Number: **99999999**

Confirmation Number: **999999999999**

Thank you for using Amole!

Upon hitting Submit, call the Amole Payment Gateway to post the payment.

Amole Payment Gateway API: Bill Lookup (30)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "",
    "BODY_ExpirationDate": "",
    "BODY_PIN": "",
    "BODY_PaymentAction": "30",
```

```
"BODY_AmountX": "",
"BODY_AmoleMerchantID": "MARKETPLACE",
"BODY_OrderDescription": "",
"BODY_SourceTransID": "MarketplaceUniqueTransID",
"BODY_VendorAccount": "",
"BODY_AdditionalInfo1": "ETAIR",
"BODY_AdditionalInfo2": "PNR123",
"BODY_AdditionalInfo3": "",
"BODY_AdditionalInfo4": "",
"BODY_AdditionalInfo5": ""
}
};
```

Amole Service API: OTPSend

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZlakDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>OTPSend</Service><MobileNumber>+251911999999</MobileNumber>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Amole Payment Gateway API: Bill Payment (31)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZlakDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "+251911999999", ← mobile wallet, current user, for payment
    "BODY_ExpirationDate": "",
    "BODY_PIN": "????",
    "BODY_PaymentAction": "31",
    "BODY_AmountX": "50.00",
    "BODY_AmoleMerchantID": "MARKETPLACE",
    "BODY_OrderDescription": "Bill payment",
    "BODY_SourceTransID": "MarketplaceUniqueTransID",
    "BODY_VendorAccount": "",
    "BODY_AdditionalInfo1": "ETAIR",
    "BODY_AdditionalInfo2": "PNR123", ← PNR Reservation Code
    "BODY_AdditionalInfo3": "",
    "BODY_AdditionalInfo4": "",
    "BODY_AdditionalInfo5": ""
  }
};
```

```
};
```

Tickets & Fees (Digital Content)

The Amole platform has the ability to dynamically offer various digital content for sale to the consumer. The content is managed centrally by the Amole back-office team.

How Content is Organized

Content is organized into three levels:

1. **Top Level** – Content Types, this level is retrieved by calling **ContentGetTypes** service and represents the various types of content available for sale on the Amole platform as of the time of the call. Examples would be Sports Events, Concerts, Movie Tickets, School Fees, etc.
2. **Second Level** – Content Categories or Events for selected type of content. This level is retrieved by passing the corresponding TypeID from the type selected at the top level by the customer to the **ContentGetCat** service. For example, if Sports Events was selected you could see Team 1 vs. Team 2 and Team 3 vs. Team 4 types of events under this category. The detail returned from this call will include the event location and the event date(s).
3. **Third Level** – Items for sale for selected Content Category. This level is the item the customer can purchase. This list is retrieved by calling the **ContentGetItems** service using the Category ID from the second level of which the customer selected. Examples of this would be the type of ticket for a sporting event, or the type of fee you are trying to pay for a selected school. All of the detail information of each item for sale is returned within the results of this service call. The price should be presented in the menu selection, and upon selection all of the detail information shown prior to the payment process.

NOTE: To retrieve the entire content catalog in one call, use the **ContentGet** service and the entire structure will be returned in one result set.

Sample Content Structure

The customer should be able to navigate the content catalogue by first selecting the Content Type, and the application should present the Categories/Events in available from within that type. Next they should be able to select the Category or Event they are interested in purchasing. Once the Category or Event is selected, then present the items for sale and the price for that item.

The customer should always be able to navigate backwards to the prior level, or even return to the top level to re-select the content type they are interested in.

Below is a sample content catalog to be delivered to Amole Customers.

Type	Category / Event	Item (for sale)
School Fees 5	Destiny Future Acadamy 4	Pre-Nursery and Nursery 13
		KG1 and KG2 14
		G-1 to G-4 15
		G-5 to G-8 16
	MALD KINDERGARTEN TUITION 61	Nursery 328
		Kindergarten 329
		Prep 330
		Foundation 331
Premier League 19	GIORGIS YEARLY Kibur Tribune 66	St George YEARLY Kibur Tribun 13 Games 392
		St George YEARLY Kibur Tribun 30 Games 393
	BUNNA YEARLY Kibur Tribune 67	BUNNA YEARLY Kibur Tribun 14 Games 394
		BUNNA YEARLY Kibur Tribun 30 Games 395
	SEBETA Vs ADAMA 68	SEBETA – SEBETA Vs ADAMA Kibut Tribun 397
		SEBETA – Right Tila Fok Door 12 406
		ADAMA – Left Tila Fok Door 1 398
		ADAMA – Keman Anishe With Chair Door 2 399
		ADAMA -Kemananishe NO Chair Door 3 400
		SEBETA – DAF DOOR 4 and 5 401
		SEBETA – KATANGA DOOR 6 and 7 402
		SEBETA – Mismar Tera DOOR 8 and 9 403
		SEBETA-Kemananishe NO Chair DOOR 10 404
		SEBETA – Keman Anishe With Chair DOOR 11 405
Concert Tickets 1	Culture Week Concert 69	Student Ticket 409
		Regular Ticket 410
		VIP Ticket 411
	Bob Marley 75 th Birthday Concert 74	Near Stage Ticket 459
		Regular Ticket 460
		Grass Area Ticket 461
		VIP Ticket 462

Presenting to Customer for Purchase

Once the customer has selected the item they wish to purchase, then present the item detail information as shown below:

Bob Marley 75th Birthday Concert

Meskel Square

24 February 2020 at 8:00 PM

VIP Ticket

250.00 ETB

Next prompt the customer for the below fields. Fields are relevant to the type of item being purchased. Some are not required but to simplify screen flow all should be presented. The back-end Amole system will figure out what it needs to complete each purchase.

Quantity: _____

Send To Mobile: _____

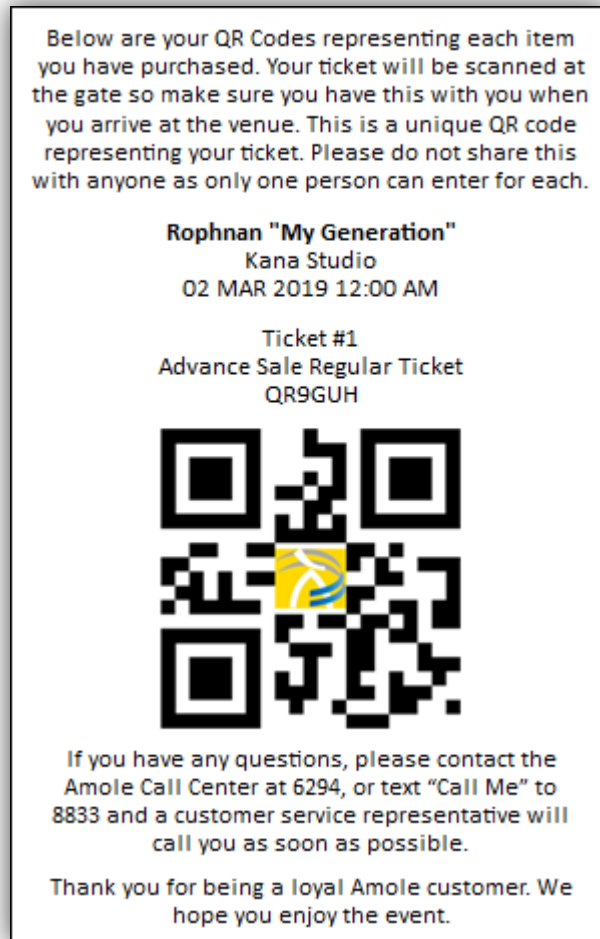
Referral/Name: _____

Reference/Grade: _____

After all information is collected then call **ContentCalc** to get final price and then take the customer through the payment process using the **Amole Payment Gateway** with **Action=31**.

Sample QR Code and SMS Message for Customer

Below is a sample of the ticket QR code the customer should receive to be able to enter the corresponding event.



The customer will also receive an SMS message similar to the one shown below:

Thank you for your purchase of Advance Sale Regular Ticket for Rophnan "My Generation", 02 Mar 2019 12:00a at Kana Studio. Your confirmation number is 123456789

Display Types of Content for Sale

The first step to placing an order for digital content is to show the content types. This is the upper-most organization of the various items for sale or payment.

ContentGetTypes → ContentGetCat → ContentGetItems → ContentGetItemPrice

Call the **ContentGetTypes** service to retrieve the list to build the screen as shown below:

Select Type of Content

Concert Tickets	Movie Tickets	Sports Event
Nightclub Event	School Fees	University Tuition
Exhibition and Events	Premier League	Entertainment
Road Fund	ACCA	Music
Self Addis		

Amole Service API: ContentGetTypes

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>ContentGetTypes</Service>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Below is a sample from within the "BODY_ServiceResponse" tag returned from the call to the API.

```
{
  "ContentTypes": [
    {
      "ContentTypeID": "3",
      "Name": "Sports Event"
    },
    {
      "ContentTypeID": "5",
      "Name": "School Fees"
    },
    {
      "ContentTypeID": "22",
      "Name": "ACCA"
    },
    {
      "ContentTypeID": "23",
```

```

    "Name": "Music"
  },
  {
    "ContentTypeID": "24",
    "Name": "Self Addis"
  }
]
}

```

Display Types of Content for Sale

When the user clicks or selects a Content Type, then call the **ContentGetCat** to get the list of categories for that content type. This level is retrieved by passing the corresponding TypeID from the type selected at the top level by the customer to this service. For example, if Sports Events was selected you could see Team 1 vs. Team 2 and Team 3 vs. Team 4 types of events under this category. The detail returned from this call will include the event location and the event date(s).

ContentGetTypes → **ContentGetCat** → ContentGetItems → ContentGetItemPrice

Below is what should be shown when the "School Fees" option is selected.

Select Type of Content

Concert Tickets	Movie Tickets	Sports Event
Nightclub Event	School Fees	University Tuition
Exhibition and Events	Premier League	Entertainment
Road Fund	ACCA	Music
Self Addis		

School Fees

Mald Kindergarden School Fees	Hillside School Fee	Hillside School Penalty Fee
NEPS - Current Students - 2020/21	NEPS - New Students - 2020/21	

Amole Service API: ContentGetCat

```

var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZiakDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  }
}

```

```

},
"data": {
  "BODY_ServiceRequest": "<Service>ContentGetCat</Service><TypeID>123</TypeID>",
  "BODY_SourceTransID": "YourUniqueTransID"
}
};

```

Below is a sample from within the "BODY_ServiceResponse" tag returned from the call to the API.

```

{
  "ContentTypes": [
    {
      "CategoryID": "61",
      "Name": "Mald Kindergarden School Fees",
      "Location": "Bisrate Gebriel",
      "EventBegin": "May 15 2020 12:00AM",
      "EventEnd": "May 15 2020 12:00AM"
    },
    {
      "CategoryID": "148",
      "Name": "NEPS - Current Students - 2020/21",
      "Location": "Old Airport",
      "EventBegin": "Sep 3 2020 12:00AM",
      "EventEnd": "Aug 30 2021 12:00AM"
    },
    {
      "CategoryID": "149",
      "Name": "NEPS - New Students - 2020/21",
      "Location": "Old Airport",
      "EventBegin": "Sep 3 2020 4:44PM",
      "EventEnd": "Aug 31 2021 12:00AM"
    },
    {
      "CategoryID": "79",
      "Name": "Hillside School Fee",
      "Location": "yeka",
      "EventBegin": "Dec 31 2019 8:45AM",
      "EventEnd": "Dec 31 2019 8:45AM"
    },
    {
      "CategoryID": "81",
      "Name": "Hillside School Penalty Fee",
      "Location": "Yeka",
      "EventBegin": "Dec 31 2019 11:52AM",
      "EventEnd": "Dec 31 2019 11:52AM"
    }
  ]
}

```

Display Items for Sale for Selected Category

When the user clicks or selects a Content Category, then call the **ContentGetItems** to get the list of items for sale or payment within that category. This level is retrieved by passing the corresponding CategoryID from the category selected by the customer to this service. Examples of this would be the type of ticket for a sporting event, or the type of fee you are trying to pay for a selected school. All of the detail information of each item for sale is returned within the results of this service call. The price should be presented in the menu selection, and upon selection all of the detail information shown prior to the payment process.

[ContentGetTypes](#) → [ContentGetCat](#) → [ContentGetItems](#) → [ContentGetItemPrice](#)

NOTE: To retrieve the entire content catalog in one call, use the **ContentGet** service and the entire structure will be returned in one result set.

Below is what should be shown when the "Mald Kindergarden School Fees" option is selected. The various fees (items) for that category should be displayed.

School Fees

Mald Kindergarden School Fees

Hillside School Fee

Hillside School Penalty Fee

NEPS - Current Students - 2020/21

NEPS - New Students - 2020/21

Mald Kindergarden School Fees

Select from the list below

Nursery - 17000.00 ETB	Kindergarten - 17000.00 ETB	Prep - 17000.00 ETB
Foundation - 12000.00 ETB	Penalty for Nursery - 5% - 17850.00 ETB	Penalty for Kindergarten - 5% - 17850.00 ETB
Penalty for Prep - 5% - 17850.00 ETB	Penalty for Foundation - 5% - 12600.00 ETB	Penalty for Nursery - 10% - 18700.00 ETB
Penalty for Kindergarten - 10% - 18700.00 ETB	Penalty for Prep - 10% - 18700.00 ETB	Penalty for Foundation - 10% - 13200.00 ETB
Nursery - 3rd quarter - 16000.00 ETB	Kindergarten - 3rd quarter - 16000.00 ETB	Prep - 3rd quarter - 16000.00 ETB
Foundation - 3rd quarter - 12000.00 ETB	Penalty for Nursery - 5% - 16800.00 ETB	Penalty for Kindergarten - 5% - 16800.00 ETB

Amole Service API: ContentGetItems

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>ContentGetCat</Service><CategoryID>140</CategoryID>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Below is a sample from within the "BODY_ServiceResponse" tag returned from the call to the API.

```
{
  "ContentItems": [
    {
      "ItemID": "902",
      "Name": "Negat Album",
      "UnitPrice": "50.00",
      "Fee1Label": "",
      "Fee1": "0.00",
      "Fee2Label": "",
      "Fee2": "0.00",
      "TotalPrice": "50.00",
      "AllowPriceChange": "Y",
      "MinimumQty": "1",
      "MaximumQty": "0",
      "QRCode": "*902"
    },
    {
      "ItemID": "990",
      "Name": "Negat Album (un-scensored)",
      "UnitPrice": "65.00",
      "Fee1Label": "Amole Service Fee",
      "Fee1": "15.00",
      "Fee2Label": "Other Fee",
      "Fee2": "12.00",
      "TotalPrice": "92.00",
      "AllowPriceChange": "Y",
      "MinimumQty": "1",
      "MaximumQty": "0",
      "QRCode": "*990"
    }
  ]
}
```

Display Item Selected and Payment Info

The customer will selected one of the items displayed as shown below.



ContentGetTypes → ContentGetCat → ContentGetItems → **ContentGetItemPrice**

Once an item is selected, call the **ContentGetItemPrice** service and display the following fields below to allow the customer to complete the information for the purchase.

Amole Service API: ContentGetItemPrice

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
```

```
"headers": {
  "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtMlXRJ--ZSyMBIcX9LcxsulVuM",
  "HDR_IPAddress": "0.0.0.0",
  "HDR_UserName": "Abishek",
  "HDR_Password": "Test",
  "Content-Type": "application/x-www-form-urlencoded"
},
"data": {
  "BODY_ServiceRequest": "<Service>ContentGetItemPrice</Service><ItemID>359</ItemID>",
  "BODY_SourceTransID": "YourUniqueTransID"
}
};
```

Below is a sample from within the "BODY_ServiceResponse" tag returned from the call to the API.

```
{
  "Name": "On-Time Quarterly Payment Q1",
  "ItemID": "359",
  "CategoryName": "Addis Ababa Equestrian Society",
  "EventBegin": "Dec 3 2019 8:32PM",
  "EventEnd": "",
  "Location": "Bisrate Gebriel",
  "UnitPrice": "65.00",
  "Fee1Desc": "Amole Service Fee",
  "Fee1": "15.00",
  "Fee2Desc": "Other Fee",
  "Fee2": "12.00",
  "TotalPrice": "92.00",
  "AllowPriceChange": "Y",
  "QRCode": "*360"
}
```

Using the information returned from the call above, format the screen as shown below. Display the detail information about the item being purchase, the price based on quantity and final payment, and additional fields as shown.

Addis Ababa Equestrian Society
On-Time Quarterly Payment Q1
Event Date: Dec 3 2019 8:32PM
End Date:
Location: Bisrate Gebriel

CategoryName
Name
EventBegin
EventEnd (Only show if valid end date)
Location

Unit Price: **65.00 ETB**

Quantity:

Amole Service Fee: **15.00 ETB**

Other Fee: **12.00 ETB**

Total Price: **92.00 ETB**

Override Amount: **92.00 ETB**

Fee1Label / Fee1 (Only show if Fee1 > 0)

Fee2Label / Fee2 (Only show if Fee2 > 0)

Total Price is calculated as **(UnitPrice * Quantity) + Fee1 + Fee2**

Only show if AllowPriceChange = Y

Referral Code / Other

Student Name / Grade / Other Info

Mobile Number for Ticket/Receipt

Send OTP

Enter OTP:

9999

Pay from Account:

Amole Mobile Wallet ▼

Submit

Payment and Other Information Collected

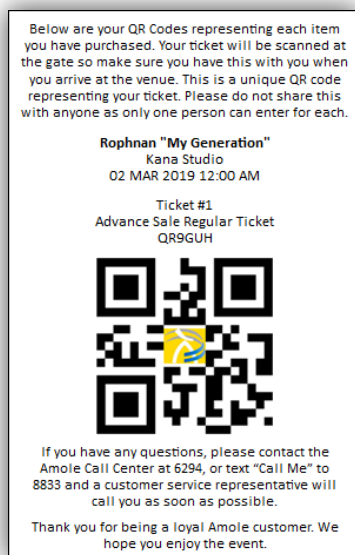
After hitting submit then call the payment gateway to process the payment. If the payment is not successful, show the corresponding error to the user. If the payment is successful, show the receipt information and the QR Code as shown below.

Digital Content purchase successful!

Amount: **100 ETB**

Reference Number: **999999**

Confirmation Number: **9999999999**



Thank you for using Amole.

Amole Service API: OTPSend

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZiakDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>OTPSend</Service><MobileNumber>+251911999999</MobileNumber>",
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};
```

Amole Payment Gateway API: Content Lookup (30)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZiakDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "",
    "BODY_ExpirationDate": "",
    "BODY_PIN": "",
    "BODY_PaymentAction": "30",
    "BODY_AmountX": "",
    "BODY_AmoleMerchantID": "MARKETPLACE",
    "BODY_OrderDescription": "",
    "BODY_SourceTransID": "MarketplaceUniqueTransID",
    "BODY_VendorAccount": "",
    "BODY_AdditionalInfo1": "CONTENT",
    "BODY_AdditionalInfo2": "1234",      ← Item ID
    "BODY_AdditionalInfo3": "",
    "BODY_AdditionalInfo4": "",
    "BODY_AdditionalInfo5": ""
  }
};
```

Amole Payment Gateway API: Content Payment (31)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
```

```

"HDR_Signature": "TeXbJ8by1mZiakDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
"HDR_IPAddress": "0.0.0.0",
"HDR_UserName": "Abishek",
"HDR_Password": "Test",
"Content-Type": "application/x-www-form-urlencoded"
},
"data": {
  "BODY_CardNumber": "+251911999999",      ← mobile wallet, current user, for payment
  "BODY_ExpirationDate": "",
  "BODY_PIN": "????",
  "BODY_PaymentAction": "31",
  "BODY_AmountX": "123.45",               ← Total payment, what customer agrees to pay
  "BODY_AmoleMerchantID": "MARKETPLACE",
  "BODY_OrderDescription": "Description of order",
  "BODY_SourceTransID": "MarketplaceUniqueTransID",
  "BODY_VendorAccount": "Name/Grade/Other value", ← Name/Grade/Other value (optional)
  "BODY_AdditionalInfo1": "CONTENT",
  "BODY_AdditionalInfo2": "1234",         ← Item ID
  "BODY_AdditionalInfo3": "1",            ← Quantity
  "BODY_AdditionalInfo4": "+251929131995", ← Send To Mobile (for tickets) (optional)
  "BODY_AdditionalInfo5": "Referral/Other" ← Referral Code / Other (optional)
}
};

```

Amole Service API: ContentGetItem

```

var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZiakDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_ServiceRequest": "<Service>ContentGetItem</Service><KeyValue>123456</KeyValue>", ← RefNo, ConfNo
    "BODY_SourceTransID": "YourUniqueTransID"
  }
};

```

My Amole

When the user hovers over the "My Amole" button, the following drop-down menu should appear.

- Top-up My Account
- Check my Balance
- My Last 5 Transactions

Top-up My Account

To top-up a customer's Amole Mobile Wallet on the Amole Marketplace the customer should enter an amount and pay using the CyberSource payment landing page.

Enter top-up amount:

<process topup using CyberSource gateway>

Once payment successfully accepted, call the Payment Gateway to record the top-up amount as a deposit.

Amole Payment Gateway API: Content Payment (31)

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
    "HDR_UserName": "Abishek",
    "HDR_Password": "Test",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "data": {
    "BODY_CardNumber": "+251911999999",      ← mobile wallet, current user, for payment
    "BODY_ExpirationDate": "",
    "BODY_PIN": "",
    "BODY_PaymentAction": "02",
    "BODY_AmountX": "123.45",               ← Total deposit
    "BODY_AmoleMerchantID": "MARKETPLACE",
    "BODY_OrderDescription": "",
    "BODY_SourceTransID": "MarketplaceUniqueTransID",
    "BODY_VendorAccount": "",
    "BODY_AdditionalInfo1": "",
    "BODY_AdditionalInfo2": "",
    "BODY_AdditionalInfo3": "",
    "BODY_AdditionalInfo4": "",
    "BODY_AdditionalInfo5": ""
  }
};
```

Check my Balance

To check a customer's balance, call the **AccountGet** service in the Amole Service Integration APIs.

The current balance in your Amole Mobile Wallet is shown below:

123.45 ETB

Amole Service API: AccountGet

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
    "HDR_Signature": "TeXbJ8by1mZ1akDswgji4ConZBHbIzk3Hgm-aJaR9xkpieslVL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
    "HDR_IPAddress": "0.0.0.0",
```

```
"HDR_UserName": "Abishek",
"HDR_Password": "Test",
"Content-Type": "application/x-www-form-urlencoded"
},
"data": {
  "BODY_ServiceRequest": "<Service>AccountGet</Service><KeyValue>+251911123456</KeyValue>
<MerchantID>YourMerchantID</MerchantID>",
  "BODY_SourceTransID": "YourUniqueTransID"
}
};
```

My Last 5 Transactions

To retrieve the customer's last 5 transactions, call the **AccountGet** service in the Amole Service Integration APIs.

Your last five transactions are shown below.

Reference #2012489
Date: Dec 31 2020 4:43PM
Trans Desc: Mobile airtime PIN purchae at Telegram Bot (Africa's Talking)
Amount: -100.00

Reference #1907883
Date: Nov 13 2020 11:36PM
Trans Desc: Transfer to Dagim F/Mariam
Amount: -500.00

Reference #1907880
Date: Nov 13 2020 11:33PM
Trans Desc: Transfer from Doug Deneau
Amount: 600.00

Reference #1873776
Date: Nov 1 2020 4:06PM
Trans Desc: Transfer to Besufekad Yitbarek
Amount: -10.00

Reference #1873398
Date: Nov 1 2020 2:20PM
Trans Desc: Transfer to Menbere Abebe
Amount: -101.00

7:31 PM

Amole Service API: AccountGet

```
var settings = {
  "url": "https://uatc.api.myamole.com:8076/amole/service",
  "method": "POST",
  "timeout": 0,
  "headers": {
```



```
"HDR_Signature": "TeXbJ8by1mZiakDswgji4ConZBHbIzk3Hgm-aJaR9xkpies1VL7WH4ZtM1XRJ--ZSyMBIcX9LcxsulVuM",
"HDR_IPAddress": "0.0.0.0",
"HDR_UserName": "Abishek",
"HDR_Password": "Test",
"Content-Type": "application/x-www-form-urlencoded"
},
"data": {
  "BODY_ServiceRequest": "<Service>AccountGet</Service><KeyValue>+251911123456</KeyValue>
<MerchantID>YourMerchantID</MerchantID>",
  "BODY_SourceTransID": "YourUniqueTransID"
}
};
```