GK REST API on Postman collection

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1 Cookbook Notes

1.1 Table of Contents

1.2 Cookbook preface

The ultimate goal of this book is to give you answers to all your questions related to the Service API or GK REST API and how it can be used on the available Postman collection.

1.3 Typographic conventions

For easier reading and better understanding, we will use the following typographic conventions and symbols in this documentation.

Format	Description
bold	References to the screen display: Words or characters quoted from the screen. This includes field names, pushbutton names, menu names, masks, menu paths and menu options. Example: Select OK.
bold and italic	Highlighting: Highlighted words or expressions in the body text. <i>Example: Please always follow the instructions.</i>
Proportional spacing bold	Exact user input: This includes words or characters that must be entered by the user in the application exactly as indicated in the documentation. Example: Amount: 20.00 EUR
CAPITAL LETTERS AND BOLD	Names of keyboard keys: Example: SHIFT, CTRL, ALT

2 Postman introduction

2.1 Postman description

Postman is a collaboration platform for API development. Postman's features simplify each step of building an API and streamline collaboration so you can create better APIs—faster. This includes developing, testing, sharing and documenting your APIs. Postman also gives to possibility to manage your API data via Postman's desktop, web, CLI, and/or API interfaces.

2.2 Postman download

There are two ways how to use the Postman API Platform. You can either download it from their official website or use the web version in your browser.

https://www.postman.com/

Before you start with Postman, you should first register on their website. It is necessary to activate your account by confirming your mail address. If you are done with that, **refresh the Postman website** and sign in by **clicking the sign in button**.

← → C (ê postman.com	* 🦷 * 🔵	:
POSTMAN Product VUse Cases V Pricing Enterprise Explore Learning Center	Sign In Sign Up	-
The Collaboration Platform	Get Started with Postman	
for API Development	& Username	
Simplify each step of building an API and streamline collaboration so you can	🖂 Email	
create better APIs—faster.	B Password	
	Passwords need to be at least 7 characters long.	
Learn More	Sign me up to get product updates, news, and other marketing communications.	
	Create Account	
	or	
	G Sign Up With Google	
	By creating an account, I agree to the Terms and Privacy Policy .	

Now the Postman web application should start. If not you have to **click the Launch Postman button** if you want to use the Postman web version.

But I would recommend using the Postman application, because it gives a full-featured version of Postman. Postman application must be version 9 and higher related to new security functions.

https://www.postman.com/downloads/

Click Download the App and select whether you have a 32-Bit or 64-Bit windows system. Now you are downloading a .exe application file which helps to install Postman. The name of the app should look somewhat like this "Postman-win64-9.9.3-Setup.exe".

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								View co

2.3 Postman installation

Open the downloaded file by **double clicking on it.** Now a new window opens where you can just **click on sign in.** This button is a link to their website were you should be able to sign in and verify your Postman application. Now you should have the full Postman version running on your system.

3 Setting up development environment

3.1 Downloading the Swagger documentation

First of all use this link to register on the Omnibasket platform. The registration process is a key thing to do, to access all information on Omnibasket.com. The process could take some time.

https://omnibasket.com/

To gain a sandbox developer access you will need to:

- Click the registration button below, provide contact information, company info and proposed solution
- Once approved you will gain access to a webservices public sandbox. If you wish to use AppEnablement- further information about the use case will be required. We will probably invite you to a quick chat, and for selected use cases will activate a Test & Try advanced environment for you to try your idea out.
- To be added to our catalogue and be available in production: commercial agreement and a small certification effort will be required

After your account is registered and verified you can go on

https://omnibasket.com/service-api

and download the Swagger Documentation of the POS-Service and the Selfscanning-API. The buttons for the files should be named like 5.15.0-b02 depending on which version they currently are. Those three files are now in your download space on your PC. It's helpful to move them into a directory were you save all your files who have something to do with the Omnibasket and Postman.

	Swagger Documentation
POS-Services	Selfscanning-API
The POS-Service is the core endpoint which is used by the flagship touch point, OmniPOS. It contains all individual operations that are orchestrated in specific macro services.	The Selfscanning API is a simpler, stateful API. GK will maintain the basket and answer all requests with full transaction details so the client does not need to store anything.
5.15.0-b02	5.15.0-b02
	Postman-Collection
	Download

3.2 Postman collections

After you successfully downloaded the Swagger Documentation, you should **start** the previously downloaded Postman Application where you can sign in with your account.

First of all you should create a new workspace in Postman. You can do this by **clicking the new button** and selecting Workspace. For the reason that this workspace will keep all your GK Omnibasket related Collections you shall call it *Workspace Omnibasket*.

To download the Postman-Collection you will have to go on omnibasket.com/service-api again and **click the Download button** below Postman-Collection. A website will show up where you can just copy the URL. Than go in t Postman and in the Workspace Omnibasket where you can **click on the import button**

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🛞 Worksp	ace Omnibasket	New Import	O GK application - O	O GK application -	O	GK_API_Calls_	. ×				
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	> GK application - Om	niPOS SelfSca 💮	Authorization Pre-reques	t Script Tests	Variables						
APIs	> GK application - Om	niPOS Service 🛞	This authorization method w	ill be used for every		this collection V		ide this hu on		in the	
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History											
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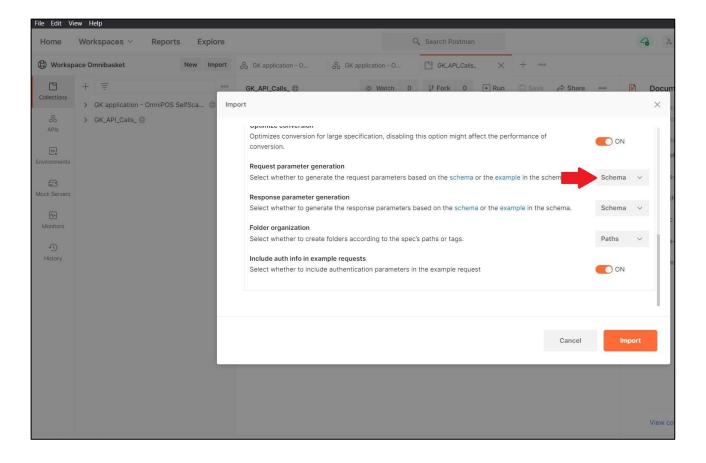
and **paste the Link** in the Link section. The installation will start after you confirm it and the GK_API_Calls collection should show up in the collection section.

() Workspa	ace Omnibasket New	Import e. gic.sandbox.env07 × + ***			gk_sandbox_env07	~	
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0 APIs	> GK application - OmniPOS Service API §	File Folder Link Raw text Code repository New					L ²⁴
Environments		Enter a URL	_				
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Mock Servers							
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Monitors							
43							
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		O Use variables to reuse values in different places. Work with the current value of a variable to prevent sharing sensitive variable values	e values wit	th your tear	n. Learn more about	×	
ED Q Find	and Replace 🗈 Console				😌 Bootcamp 🗈 Runn	ner 📋 Trash	• 0

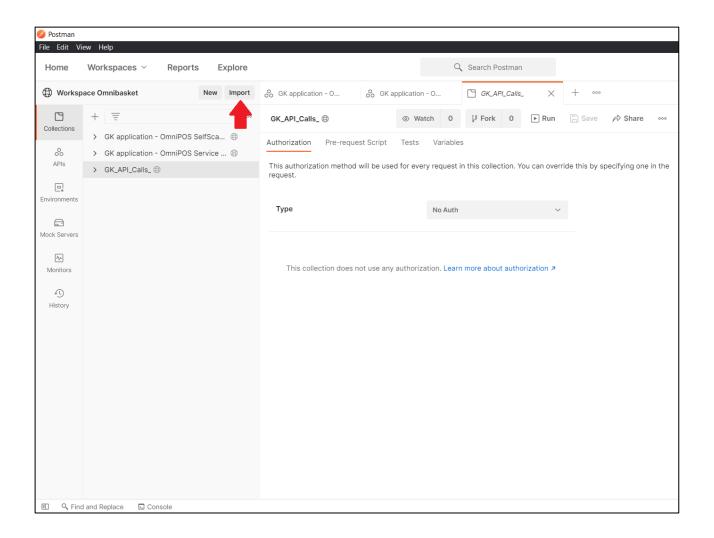
To add the Swagger Documentation you have to **click on Import** again and **select** in the section file menu the button **Upload Files**. You should start by adding the GK application - OmniPOS SelfScanning Serice API. It should show up in your Collection menu. For the second one, the GK application - OmniPOS Service API you will have to **click on show advanced settings** after you selected the correct file.

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Home	Workspaces ~	Reports	Explore			Q	Search Postman				4	ĉ+	Inv
🕀 Works	oace Omnibasket	N	lew Import	GK application - O	GK applicat	ion - 0	GK_API_Calls_	×	+ •••				
Collections APIs Environments Mock Servers Monitors History	+ 👿		S	GK_API_Calls_@ aport elect files to import · 1/1 select tAME SK application - OmniPOS Ser Generate collection from i Link this collection as Documentation • Show advanced settin	acted vice API	Natch 0	₿ Fork 0	IMPORT AS API	PORT AS			TI DPS -se (M	
			ŀ						Canc	el	Import	View cor	mp

Now make sure that Request parameter generation and Response parameter generation is set to schema. If so you can start the import.



The collections menu inside your Omnibasket workspace should now look like this.



3.3 Postman environment

Right now you are not able to send any request and get an answer, because they key variables aren't set yet. Therefor we need an environment. You should already have the necessary .json file, because you are supposed to get it after registering on Omnibasket.com. You can download it by going onto Omnibasket.com and going in the user section. After you logged in, a URL should show up under the Postman Environment point. **Copy this link** and paste it in any browser. The download will start automatically.

	Welcome	General	Events	App-Enablement	Service API	Examples	User	Logout	Q
Edit Your Profile Name *									
Sample User									
Email Address *		Password *							
sample.user@gk-software.	com			P					
Postman Environment									
https://omnibasket.com/co	mponent/jdo ^{, •}								
User Profile									
Phone		About Me		-					
Submit Cancel									

You can install your environment into Postman by going in the environment section and again **clicking the import button** and **selecting the correct file**. Now the .json file should show up in the environment section.

() Worksp	ace Omnibasket	New Import	🖳 gk	_sandbox_env07 × + ***				gk_	sandbox_er	1v07	~	(((((((((((((((((((
Collections	+ =		gk_s	andbox_env07		↓ [‡] For	·k (0	Save	🖒 Sh	are 👓	(i)
	Globals			VARIABLE	INITIAL VALUE (1)	CURRENT VALUE ①		01	•• Pers	ist All	Reset All	L1
APIs	gk_sandbox_env07	Ø	\checkmark	protocol	https	https						
e.			~	host	api.cloud4retail.com	api.cloud4retail.com						
Environments			\checkmark	port	443	443						
			~	port-api-as	443	443						
Mock Servers				port-api-g	443	443						
Monitors			~	port-sss	443	443						
			\checkmark	tenant	001	001						
History				username	10018	10018						
			~	userID	10018	10018						
				password	50044	50044						
			~	pos-service-login-pw	50044	50044						
			~	store	9090	9090						
			\checkmark	storeld	9090	9090						
			~	businessUnitGroupID	1000000000000003	1000000000000003						
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O Use variables to reuse values in different places. Work with the current value of a variable to prevent sharing sensitive values with your team variable values								. Lear	n more ab	out	×	
E Q Find	i and Replace 🕞 Console						1	😌 Boi	otcamp (Runne	r 📋 Trash	• ?

You are still not able to send any request. To fix that you have to go in the collection section and **click on API Calls**. In the top right corner you can select the environment what you want to use. **Change it** to the previously installed one.

() Worksp	ace Omnibasket New Import	POST pos-service - log X + ••••		gk sandbox er	w07 × ^	0			
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APIs	> GK application - OmniPOS Service API	POST v ((protocol))://(host)):((port))/pos-service/tenants/(tenant))/services/com.gk_software.pos.api.service.session.PosSessionService/login Send v							
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	> 📄 onePPS	Quary Parame	Query Params						
Environments	✓								
	> 📄 session	KEY	VALUE	DESCRIPTION	••• Bulk Edit				
Mock Servers	> 🗎 masterdata	Key	Value	Description					
~	> 🗎 recalculate								
Monitors	> 📄 calculateTax								
	> 🗎 PosTransactionService								
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	> 🗎 LineItemService								
	✓ ☐ PaymentService	Response			~				
	 POST pos-service - login Copy 								
	es pos-service - login Copy								
	> POST registerLineItem Copy								
	> POST getTransaction Copy								
	> POST updateTerminalTenderAuthoriz		AA						
	> POST registerTerminalPayment								
	> POST finalizeTransaction								
	> POST pos-service - logout Copy		Hit Send to get a response						
	> 🗎 CustomerOperationService								
E Q Find	and Replace 🖸 Console			😌 Bootcamp (🗈 Runner 🍵 Trash	* 0			

Now you should be able to send a request. Checked if all works by sending a request in the PaymentService/pos-service folder using the pos-service login method. Which gets you with the following response.

() Worksp	ace Omnibasket New Import	POST pos-service - log × + ***		gk_sandbox_e	env07 V	0	
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E Q Find	and Replace 🗈 Console			😌 Bootcamp	🗈 Runner 🍵 Trash	1	

4 Postman features

4.1 Collections features

Postman is a very complex and well thought out tool. Therefor it has a huge number of features and support tools. You can read about all Postman features right here https://www.postman.com/postman-features/. It is also helpful to have a look at the Postman bootcamp in the Postman application. To get there, you will just have to **click on Bootcamp** in the bottom right corner, on any open Postman site.

Workspa	ace Omnibasket New Import	POST pos-service - log • + •••			gk_sandbox_env07	0
Collections	+ = one of the set of	T V pos-service (Transaction Interaction) / PaymentService	(Payment Events) / pos-service - login Copy	E	🖺 Save 🗸 👓 🥖 🗉	1
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9	 PosTransactionService (Liv CustomerTransactionServi LineItemService (Live Item 		ffb24a2b8e151b9eebedc*	♣ Status: 200 OK Time: 1550 ms		8.

Nice to know is, that every request has a specific type like POST or PUT or GET. There is a drop down list of all types if you **click on POST** in front of the requests name. The different types are important because they show and decide, what every request is used for.

Image: construction	Worksp	ace Omnibasket New Import	pos-service - login C •	+ •••			gk_sandbox_env07	~ ©
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• • GR_APLCalls, © GET Headers (13) Body ● Pre-request Script Tests ● Settings · • OnePPS (Promotion) Port = Put · • Popr-service (Transaction Inte · • Popr-service (Popr-service · • Popr-service (Popr-service · • Popr-service (Popr-service · • Popr-service - login Copy PurGE · • Visualize ISON · • • • • • • • • • • • • • •			METHOD ^ {{prot	cocol}}://{{host}}:{{port}}/pos-service/ter	nants/{{tenant}}/services/com.gk_software.pos.api.service.se	ssion.PosSessionService/lo	ogin Send v	E
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Now let's have a look at the most important features you are using during your work with postman. In the row of sub items below the name of the request you can find seven fields. Params, Authorization, Headers, Body, Pre-request Script, Tests and Settings. First of all we look at the body. In there you can see the entire performed code. Variables which are colored in orange refer to parts of the API.

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Collections	+ = 000	🗅 💌 / pos-service (Transaction Interaction) / PaymentService (Payment Events) / pos-service - login Copy	Save 🗸 👓	/ E	:h
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	GK application - OmniPOS SelfSc      GK application - OmniPOS Servic	POST v ([protocol]://([host]):([port])/pos-service/tenants/((tenant))/services/com.gk_software.pos.api.service.session.PosSessionService/top	in	Send ~	Ē
APIs	GK_API_Calls_     GK_API_Calls_     GK_API_Calls_	Params Authorization Headers (12) Body  Pre-request Script Tests  Settings		Cookies	
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### You can change the type of representing the request, by **clicking on JSON** and selecting another type in the drop down list.

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Accid. Services     >     Essession (POS Sessions)       Accid. Services     >     Imasterdata (Service Maste)       Monitors     >     Calculate (Full TX Recalculat)       Annors     >     Calculate Tax (Tax Calculatat)       Annors     >     ColorationsCrive (Liv)       Annors     >     Cultormer TransactionService (Liv)       Annors     >     Cultormer TransactionService (Liv)       Annors     >     Cultormer TransactionService (Live)       Annors     >     Cultormer TransactionService)       Annors     >     Cultormer TransactionService)       Annors     >     Cultormer TransactionService)       Annors     >     Cultormer TransactionService)       Annors     >     Cult	<pre>Text      Text      T</pre>		
Post getTransaction Copy     Post updateTerminalTenderAu     Post registerTerminalPayment     Post finalizeTransaction     Post pos-service logout Copy	19 Body Cookies (2) Headers (17) Test Results (2/2)	OK Time: 1550 ms Size: 44.71 KB Save Response ❤	

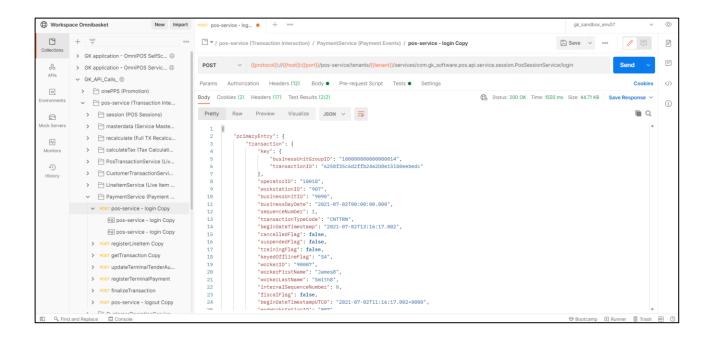
The next sub item we want to talk about are the tests. Sometimes this is very useful, because the body of some requests could be quiet big and not very manageable, but in the tests section you will find the most needed methods of the request being tested.

Worksp	New Import	POST pos-service - log • + ***	gk_sandbox_env07 ~	0
Collections	+ = •••	🗅 🔻 / pos-service (Transaction Interaction) / PaymentService (Payment Events) / pos-service - login Copy	🖺 Save 🗸 👓	i.
00 APIs	GK application - OmniPOS Servic      GK application - OmniPOS Servic      GK_APLCalls.	POST ([protocol)]://([host]):([port])/pos-service/tenants/(tenant)//services/com.gk_software.pos.api.service.session.PosSessionService		Ē
Environments Environments Mock Servers Monitors History	Concerciance of the second of the secon	<pre>pm.response.to.have.status(200); } var jsonData = pm.response.json(); pm.reviIonment.set("_pos_session_")); // example using pm.response.to.have pm.test("response is ok", function () { pm.response.to.be.success } } </pre>	Cookies Test scripts are written in JavaScript, and are written in Scripts Get a ontivorment variable Get a ontivorment variable Get a collection variable Set a collection variable Set a collection variable Get	() ()
	> POST pos-service - logout Copy		ms Size: 44.71 KB Save Response ~	
E Q Find	d and Replace		😌 Bootcamp 🗈 Runner 🧻 Trash	•• (

Another important sub item is the headers section. It shows all needed information about what a request needs to run. If you do not know what each header does, you can just hover of the small info sign next to the header name.

Worksp	ace Omnibasket New Import	POST pos-service - log • + ***			gk_sandbox_env07	~	0
Collections	+ =	🇂 🔻 / pos-service (Transaction Interaction) / Pa	ymentService (Payment Events) / pos-service - login Copy	E	] Save ∨ ∞∞	/ E	1
oo APis	GK application - OmniPOS SelfSc      GK application - OmniPOS Servic      GK API.Calls.	POST	bos-service/tenants/([tenant])/services/com.gk_software.pos.api.service.set	sion.PosSessionService/l	ogin	Send v	Ę
C. Ivironments	> 📄 onePPS (Promotion)	Params Authorization Headers (12) Body Headers & Hide auto-generated headers	<ul> <li>Pre-request Script Tests          Settings     </li> </ul>			Cookies	4
8	pos-service (Transaction Inte     Session (POS Sessions)	KEY	VALUE	DESCRIPTION	••• Bulk Edit	Presets ~	(3
lock Servers	> 📋 masterdata (Service Maste	Authorization ①	Bearer eyJhbGciOiJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6l				
~	> 📄 recalculate (Full TX Recalcu	Cookie ()	INGRESSCOOKIE=1624519577.246.464.462952; JSESSIO.				
Monitors	> 📄 calculateTax (Tax Calculati	Postman-Token ①	<calculated is="" request="" sent="" when=""></calculated>				
£)	> PosTransactionService (Liv	Content-Type (1)	text/plain				
History	CustomerTransactionServi      CustomerTransactionServi      CustomerTransactionService	Content-Length ①	<calculated is="" request="" sent="" when=""></calculated>				
	PaymentService (Payment	Host (1)	<calculated is="" request="" sent="" when=""></calculated>				
	V FOST pos-service - login Copy	User-Agent (1)	PostmanRuntime/7.28.0				
	(eg) pos-service - login Copy	Accept (j)	*/*				
	es pos-service - login Copy	Accept-Encoding (1)	gzip, deflate, br				
	> Fost registerLineItem Copy	Connection (1)	keep-alive				
	POST getTransaction Copy     POST updateTerminalTenderAu	Accept	application/json;Format=GK-PLAIN-JSON				
	> Fost registerTerminalPayment	Content-Type	application/json				
	> FOST finalizeTransaction	Кеу	Value	Description			
	> Post pos-service - logout Copy	Body Cookies (2) Headers (17) Test Results (2	2/2) 🛱 Statu	s: 200 OK Time: 1550 ms	Size: 44.71 KB Save	Response 😪	

Last but not least let's see what the request response actually shows you. In the top right you will always find the information, if the response worked as supposed. The status 200 just means it's all good, time is the response time in ms and size the response size in KB. There is also another Test Results sub item just for the response and you can also change the type of representing the response.



#### 5 Omnibasket

#### 5.1 Usage of Omnibasket.com

Omnibasket is the developer portal for accessing GK's retail platform, the platform that lets you bring the basket to your customer wherever they are.

https://omnibasket.com/

Here you can:

- Use GK's web services to integrate retail business logic to applications outside traditional POS -- mobile, web, smart cars, or any other customer touch-point
- Integrate web plugins to GK in-store POS platform using simple Javascript. Quickly bring recommendations, clienteling, time and attendance, or any other app you can imagine to the POS
- Discuss with other developers in the forum or get support from our experts
- Download and install a fully functional POS: mobile or stationary

Use the Portal, for information, Swagger & Postman doc's and samples of our REST APIs and AppEnablement. The two main ways you can use the platform for are:

- Use the remote platform web services to develop a new client or embed specific functions in your existing applications
- Use AppEnablement to develop web plug-ins for POS clients with the ability to communicate with the POS via a Javascript bridge

#### 5.2 Service API

The Service API is your entry point to the GK retail platform.

- If you would like to develop brand new applications or embed GK functions in your existing app, then use the Service API
- Examples include a new consumer mobile client, or embedding our services in your existing consumer mobile app

- APIs cover functionality like security, basket management, basket calculation, promotions, loyalty, consumer management, user management, and more
- See documentation and samples for more info

**POS-Service:** The POS-Service is the core endpoint which is used by the flagship touch point, OmniPOS. It contains all individual operations that are orchestrated in specific macro services.

**Selfscanning-API:** The Selfscanning API is a simpler, stateful API. GK will maintain the basket and answer all requests with full transaction details so the client does not need to store anything.

#### 5.3 App-Enablement

You can find and download a very useful documentation for the App-Enablement on https://omnibasket.com/app-enablement, if you scroll down and **click Download Documentation** below the 'How to start coding' header.

There is also a video of how one of our experts shows how we embed an example app into the POS, at the bottom of the page.

- App-Enablement is
- a plug-in interface that allows integrating web applications into the GK POS
- implemented as a JavaScript bridge enabling bidirectional communication with the POS data model and event infrastructure
- It is as easy as importing a JavaScript file into your web application
- Your plug-in can be presented as 'embedded' in the POS UI, or as a full-screen application

#### 6 How to use the REST API

#### 6.1 Complete Documentation

You can find a complete auto generated confluence page about the GK-REST-API right here: GK-REST-API (Please note, that the latest versions of each section is at the bottom of the trop down list)

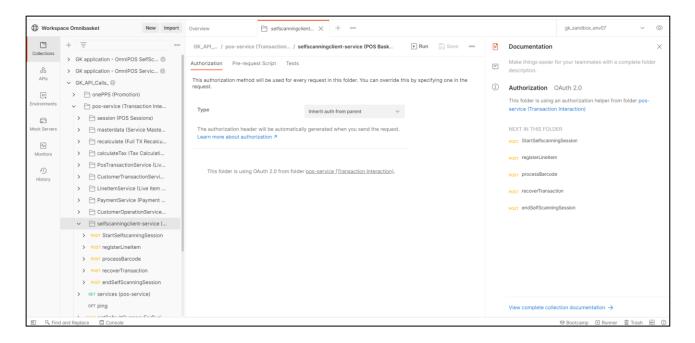
One of the most important parts of the GK_API_Calls collection, is the *pos-service (Transaction Interaction)* with the section *selfscanningclient-service (POS Basket-Handled SSC)*. To find this particular folder you will have to **click on the GK_API_Calls** Collection, so the drop down list can open. There you will see six folders, the one we need is pos-service (Transaction Interaction), **click on it**.

Worksp	ace Omnibasket New Import	☐ GK_AP/_Calls_ × + ∞∞		gk_sandbox_env07 v ()
Collections	+ = 000	GK_API_Calls_⊕ [®] Watch 0 [↓] Fork 0 → Run [®] Save [→] Share ^{***}	Documentatio	n ×
<u></u>	GK application - OmniPOS SelfSca      GK application - OmniPOS Service	Authorization Pre-request Script Tests Variables	Introduc	tion
APIs	GK_API_Calls_	This authorization method will be used for every request in this collection. You can override this by specifying one in the	What does your #	101 de2
	> 📄 onePPS (Promotion)	request.	What does your A	491 002
Environments	> 📄 pos-service (Transaction Intera	pe No Auth 🗸	h Overview	N
Mock Servers	> auth-service (Authentication)		LA Things that the d	evelopers should know about
	<ul> <li>Sdc (Masterdata)</li> <li>pos-server (Workstation &amp; Till</li> </ul>		Authort	ication
Monitors	> 📄 transactionPool (Transactional	This collection does not use any authorization. Learn more about authorization A	(i) Authent	ication
-0			What is the prefe	rred way of using the API?
History			Error Co	des
			What errors and	status codes can a user expect?
			Rate limi	it
			Is there a limit to	the number of requests an user can send?
			NEXT IN THIS CO	DLLECTION
			onePPS (Prom	notion)
			pos-service (1	Fransaction Interaction)
ED 0 Find	and Replace		View complete co	Stepstein documentation →

In there you will find another list of folders. We need the *selfscanningclient-service (POS Basket-Handled SSC)*, **click on it**. You can also see the folder on the bottom right side were the list of the following folders is. Both lead to the same folder we need.

Workspa	ace Omnibasket New Import	☐ pos-service (Trans × + ∞∞				gk_sandbox_env07 ~	0
Collections	+ =	GK_API_Calls_ / pos-service (Transaction In	teraction)	► Run 🖺 Save 🚥	Documentation		$\times$
00 APIs	<ul> <li>&gt; GK application - OmniPOS SelfSc ()</li> <li>&gt; GK application - OmniPOS Servic ()</li> </ul>	Authorization Pre-request Script Test		this by specifying one in the	Make things easier for folder description.	your teammates with a complete	
	<ul> <li>✓ GK_API_Calls_ ⊕</li> <li>&gt; □ onePPS (Promotion)</li> </ul>	request.	ry request in this lolder. Tou can overhoe	this by specifying one in the	(i) Authorization OA	Auth 2.0	
Environments	<ul> <li>pos-service (Transaction Inte</li> <li>r session (POS Sessions)</li> </ul>	Туре	OAuth 2.0		Access Token	<access-token></access-token>	-
Mock Servers	> 🗎 masterdata (Service Maste	The authorization data will be automatically Learn more about authorization A	generated when you send the request.		NEXT IN THIS FOLDER		
Monitors	<ul> <li>recalculate (Full TX Recalcu</li> <li>calculateTax (Tax Calculati</li> </ul>	Add auth data to	Request Headers		📄 masterdata (Servi	ce Masterdata)	
4) History	PosTransactionService (Liv     CustomerTransactionServi	Current Token			recalculate (Full T)	X Recalculation)	
	LineItemService (Live Item     PaymentService (Payment	Access Token	Available Tokens		CalculateTax (Tax		
	CustomerOperationService	_	eyJhbGciOiJSUzI1NilsInR5cCI	à		rvice (Live Transaction Events) tionService (Live Customer Events)	
	Selfscanningclient-service (     GET services (pos-service)	Header Prefix ()	Bearer		LineItemService (L		
	орт ping > Post getDefaultCurrencyForBusi	Configure New Token Configuration Options Advanced Options	5		PaymentService (	Payment Events)	
	<ul> <li>GET applicationInfo</li> <li>POST com.gk_software.pos.api.s</li> </ul>	Token Name	Enter a token name			onService (Customer Information)	
	> 🗎 auth-service (Authentication)	Grant Type	Authorization Code			-service (POS Basket-Handled SSC)	
E Q Find	Add Replace      Console				View complete collect		• 0

In the folder you will find a list of five POST Requests. All together they can handle the complete selfscanningclient-service.



#### 6.2 Example Request

Here we are going to complete a full use case trying to:

login  $\rightarrow$  register a line Item  $\rightarrow$  get info about the current transaction  $\rightarrow$  pay cash  $\rightarrow$  finalize the transaction and logout at the end.

for that please go to PaymentService folder in the collection and follow these steps.

1. login and get a sessionID:

NEW	Runner Import		Builder Team Ubrary	🕻 🗿 SYNC OFF 🛛 Sign In 🚱	<b>↓ ↓</b>
			Chrome apps are being deprecated. <u>Download</u> our free native apps for continued support and better performance. <u>Learn more</u>		×
	Filter		pos-service - login Coj X + +++	gk_sandbox_env07	∨ © ‡
	History Collection	15			Construction of L
AIL N	e Team	C. F.	▶ pos-service - login Copy		Examples (1) 🔻
			POST V ([protoco]])//[(host])r([port])/pos-service/tenants/((tenant))/services/com.gk_software.pos.api.service.session.PosSessionService/login	Params Send 🗡	Save 🗸
	GK_API_Calls_ 137 requests		Authorization Headers (2) Body  Pre-request Script Tests		Code
$\ominus$	onePPS (Promotion)		© form-data		
POST	promotionPricingService/calculate with price		1• (		
POST	promotionPricingService/calculate 2 items w/o price		<pre>2 * "com.gk_software.pos.aoi.service.session.loginRequest": { 3</pre>		
	promotionPricingService/calculate 2 manual triggers		<pre>5 "workstationAddress": "{(tenant))_{(defaultWorkstationID)}", 6 "workstationTypeCode": "MOB",</pre>		
8	pos-service (Transaction Interaction)		7 "loginitare': "(username))", 8- "tillo" {		
	session (POS Sessions)		9 - "com.gk_software.pos.api.model.dom.app.services.transaction.TillDoKey": { 10 "businessUnitGroupID": "((businessUnitGroupID))",		
	masterdata (Service Masterdata)		11 "tillT0": null 12 } 33 },		
_	recalculate (Full TX Recalculation)		14 "pessword": "((pessword))", 15 "trainingWode": felse,		
	calculateTax (Tax Calculations)		16 "finalizeControlTransactionPlag": false, 17 "useLogintypeTenthicBroigInVenger": false		
	PosTransactionService (Live Transaction Events) CustomerTransactionService (Live Customer Events)		18 } 19 }		
_	LineltemService (Live Item Events)				
_	PaymentService (Payment Events)			0.4 - M0.04	Time: 558 ms
	7 pos-service - login Copy		Body Cookies Headers (1.4) Test Results .	Status: 200 OK	Time: 558 ms
	registerLineltem Copy		Pretty Raw Preview JSON V	D Q I	Save Response
	getTransaction Copy		51 "addedTransactionAdditionalPrintouts": [],		
PO	updateTerminalTenderAuthorization		52 "addesPriceDerivationRules": [], 53 "addesOrHoidifasSaleReturnLineItemPrices": [], 54 "deltetTranscinnedSitionPrintors": []		
PO	registerTerminalPayment.		<pre>&gt;= "eleterinansclionedrintoits': [] 55 }, 56 "additionEletries": [],</pre>		
PO	registerCashPayment copy		57 "filtered": false, 58 - "posSessionId": {		
PO	finalizeTransaction		59 "1d": "\$704f1s09sd2:000d87303b21467ss431f.10018" 60 },		
PO	pos-service - logout Copy		61 - "operator": { 62		
	CustomerOperationService (Customer Information)		03 "Workeriu": 5000/, 64 "firstlame": "James", 65 "lattume": "Saith?".		
8	selfscanningdient-service (POS Basket-Handled SSC)		66 "languageID': "de_DE", 67 "leftHandedFlag": false,		
PO	7 StartSelfscanningSession		68 - "operatorAssignmentSolist": [ 69 - {		
PO	registerLineltem		70 "retallStoreIO": "9202", 71 "workGroupIO": "cashler"		
		Hi 🥫	🖕 刘 🖨 💿 🖪 📲 🏦 🦓 🎼 🖉 💋 🖪 📼	へ 幅 dii) ENG	3:16 PM

As you see, we receive the session ID,please copy it and go to your environment parameters and update the _pos_session_ with the value you received in the response then click update

		Chrome apps are being deprecated. <u>Download</u> our free			
					gk_sandbox_env07 🗸 💿
History Collectio					
	Ca JF -	MANAGE ENVIRONMENTS		×	Examples (
	POST ~	sss-customer	200	Service/login	Params Send Y Save
GK_API_Calls_ 137 requests		<ul> <li>sss-password</li> </ul>	PK200;		
		✓ transactionID	63e35e0288ff4ad43838cdb31fe3aee3		
		access_token	eyJhbGciOiJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6Im9		
		jei	4559d9a9-8488-4eb6-b401-b5b45c66547b		
		paymentId			
		posSessionId	17b4da67a222c90bd8c155f1670804c46e.10018		
		posServiceTxld	5vp64548b72ab784df18f0a53e040216		
		JSESSIONID	2572C0934D93670C3AA52306A0173EA6		
		refresh_token	eyJhbGciOiJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6Im9		
		✓ customer-access_token	eyJhbGciOlJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6Im9		
		<ul> <li>customer-refresh_token</li> </ul>	eyJhbGciOlJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6im9		
		generatedTxld	115d72e9-f89d-4ebc-8b91-2d30c55dd450		
		device-service.print-request-uuid	fd4dddfa-a045-4a66-a2fa-7e022749fe28		
		✓ svs-timestamp	05.11.2020:17:49:10		
	Body Coo	sss-version	5.16.0		
		E	17b4f1a09ad2c90bd87303b21467ba431f.10018 ×		
887 registerLineltem Copy		✓ roleID	admin_global		
87 getTransaction Copy		Currency	EUR		
		New key			
			Cancel Update		
		"operatorID": "10018", "workerID": "90007",			
		"firstName": "James8", "lastName": "Smith8",			
selfscanningdient-service (POS Basket-Handled SSC)		"languageID": "de_DE", "leftHandedFlag": false,			
81 StartSelfscanningSession		"openatorAssignmentSOList": [			
OST registerLineltem		"netailStoreID": "9102", "workGroupID": "cashier"			

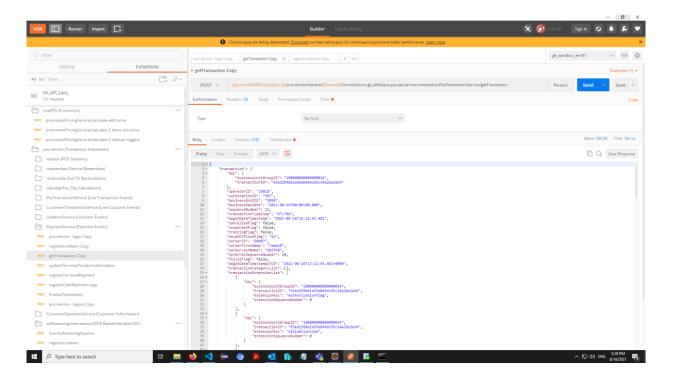
2. now you are ready to call the next endpoint (registerLineItem) to add line items to the transaction:

			- 0 X	
NEW [] Runner Import []		Builder Team Library	💢 🧿 shicorfi Sign In 🕢 🔺 🚣 🎔	
por service - login Copy getTransaction Copy registerLineitem Copy X + ****				
Q. Filter		pos-service - Iosin Copy extransaction Copy registerLineItem Cop, X + ***	gk_sandbox_env07 $\lor$ 💿 🔅	
History Collec	tions	registerLineitem Copy	Examples (1) 👻	
All Me Team	C: /~			
GK.API.Calls_		POST V ((protocol))//((host))t((port))/pos-service/tenants/((tenant))/services/v1/com.gk_software.selfscanning.api.service.LineItemService/registerLineItem	Params Send Y Save Y	
137 requests		Authorization Headers (3) Body   Pre-request Script Tests	Code	
ConePPS (Promotion)				
POST promotionPricingService/calculate with price		Type No Auth 🗸		
POST promotionPricingService/calculate 2 items w/o price				
POST promotionPricingService/calculate 2 manual triggers		Body Cookies Headers (16) Test Results	Status: 200 OK Time: 471 ms	
pos-service (Transaction Interaction)		Pretty Raw Preview JSON V	C Q Save Response	
session (POS Sessions)		1*{		
masterdata (Service Masterdata)		2 "operationStatus:" "OK", 3 - "transaction" (		
recalculate (Full TX Recalculation)		4 "businessUnitGroupID": "1000000000000014", 5 "transactionID": "1302395b1a59eb49cc85c24a25e2ad4",		
calculateTax (Tax Calculations)		6 "sequenceNumber": 11, 7 "beginDateTimestamp": "2021-06-16 15:22:43.482",		
PosTransactionService (Live Transaction Events)		<pre>8 "retailTransactionCoupoSummary": [], 9 "retailTransactionCoupoSummary": [], 10 "retailTransactionCustomer": [],</pre>		
CustomerTransactionService (Live Customer Events)		<pre>in resulting and clarication : [], in "subtotal": 2.4,     "subtotal": 2.4,</pre>		
LineltemService (Live Item Events)		13 "total': 2.4, 14 "discontrotal": 0,		
PaymentService (Payment Events)		15 "bonusPointsTotal": 0 16 "isocurrencyCode": "EUR"		
POST pos-service - login Copy		17 }, 18 - "addedOrdNodifiedLineItems": [		
POST registerLineItem Copy		19 - { 20 - "key": {		
POST getTransaction Copy		21 "builesskhitdroupD": "1000000000000014", 22 "transactionID": "83ed299bbis9eb49cd5c24a26c2a42", 23 "ttalITensactionI.tensecuence!ukeer": 1		
POST updateTerminalTenderAuthorization		25 "retailTensetionLineItenTypeCode": "S8".		
POST registerTerminalPayment		<pre>26 "voidFlag": false, 27 * "saleReturnLineIten": {</pre>		
POST registerCashPayment copy POST finalizeTransaction		28 "retailTransactionLineItenSequenceNumber": 1, 29 "mainPOSItemID": "25000108",		
		<pre>30 "itemID': "000000000000013", 31 "unitOfWearweCode": "FCE".</pre>		
POST pos-service - logout Copy CustomerOperationService (Customer Information)		32 "itemType': "D", 33 "regularVniPPice" 0.15, 34 "actualUnitrice": 0.15,		
CustomerOperationService (Customer Information)     selfscanningclient-service (POS Basket-Handled SSC)		<pre>34 actoatonicyTet * 0.15, 35 "actualUnitPriceQuantity": 1, 36 "quantity": 1,</pre>		
POST StartSelfscanningSession		37 "units": 1, 38 "extendedAmount": 0.15,		
POST registerLineltern		39 "extendedDiscontAmount": 0. 40 "grandDistendedAmount": 0.13, 41 "manualisgintIpurtIgraf": 45se,		
E P Type here to search	Ħt 🧮		∧ 🖅 ¢0) ENG 8/16/2021 📑	

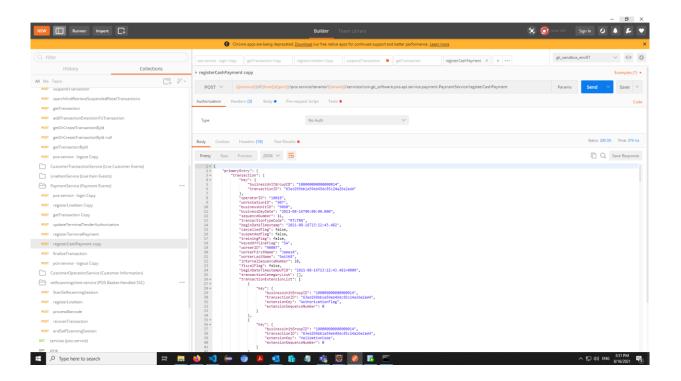
one interesting information return in the response in the transactionID which can be used to suspend or retrieve the transaction later on, so if this sound interesting to you please copy the return value of the transactionID from the response and update you environment with it :

		Chrome ager are being degrecated. Download our free			
		Contract spyrate or any orphetical systems of the			
		Copy getTransaction Copy registerLineItem C			gk_sandbox_env07 V 💿
History Collectio	ns ▶ registerLine*				
	Ca ↓F ~ Post ~	MANAGE ENVIRONMENTS	×	nService/registerLineItem	Params Send Y Save
	POST V	example-itemID	0000000000000192	nservice/registeruneitem	Params Send Y Save
	Authorization	testitem_1_MHG	030203		
		testItern_1_Price	1.05		
	Туре	example-item2	205000003912		
		testitem_2_MHG	060400		
	Body Cool	basic-auth-secret	apiBApass		Status: 200 OK Time: 47
	Pretty R	<ul> <li>customerID</li> </ul>	000005007		
		mainCurrencyID	EUR		
	1 * {	countryCode	de_DE		
	4	suspendNumber	30298416309009		
	6	sss-customer	200		
	8 9	sss-password	PK200;		
	10 11	= 🗸 transactionID	63ed299bb1a59eb49dc85c24a26e2ad4		
	12 13	<ul> <li>access_token</li> </ul>	eyJhbGciQlJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6lm9		
	14 *** 15 16	✓ jei	4559d9a9-8488-4eb6-b401-b5b45c66547b		
	17 3	<ul> <li>paymentId</li> </ul>			
	19 - 20 -	posSessionId	17b4da67a222c90bd8c155f1670804c46e.10018		
6T getTransaction Copy	21 22	posServiceTxld	5vp64548b72ab784df18f0a53e040216		
	23 24	JSESSIONID	2572C0934D93670C3AA52306A0173EA6		
	25 26	refresh_token	eyJhbGciOiJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6lm9		
	26 27 <del>*</del> 28 29	customer-access_token	eyJhbGciOiJSUzI1NilsInR5cCl6lkpXVClsImtpZCl6lm9		
	29 30 31	customer-refresh_token	eyJhbGciOiJSUzI1NilsInR5cCl6lkpXVCIsImtpZCl6lm9		
		"itenType": "DI", "regularUnitPrice": 0.15,			
		"actualUnitPrice": 0.15, "actualUnitPriceQuantity": 1,			
selfscanningclient-service (POS Basket-Handled SSC)		"quantity": 1, "units": 1.			
67 StartSelfscanningSession		<pre>"extendedAmount": 0.15, "extendedDiscountAmount": 0,</pre>			
337 registerLineltern		"grandExtendedAmount": 0.15, "manualWeightInputFlag": false,			

This will allow you from now on to send transaction's related request under (PosTransactionService folder) or like getTransaction endpoint in our current folder(PosTransactionService) :



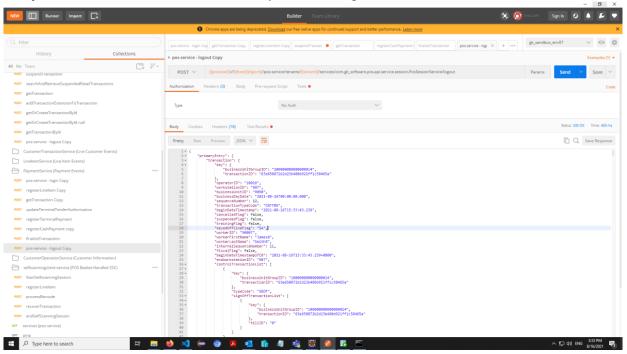
3. call the registerCashPayment :



4. Then finalize the current transaction with calling finalizeTransaction:

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Q. Filter		possenice-login Copy getTransaction Copy registerLineItem Copy suspendTransaction e getTransaction registerCashPayment cop finalizeTransaction X + +++	gk_sandbox_env07 v 💿 🔅
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POST suspend l ransaction	_+ ·	POST V {{protoco}}/{[frost]}/{[frost]}/pos-service/tenants/(tenant)]/services/com.gk_software.pos.api.service.transaction.PosTransactionService/finalizeTransaction	Params Send Y Save Y
POST searchAndRetrieveSuspendedRetailTransactions		Authorization Headers (3) Body • Pre-request Script Tests. •	Code
POST getTransaction			
POST addTransactionExtensionToTransaction		Type No Auth 🗸	
POST getOrCreateTransactionByld			
POST getOrCreateTransactionByld null		Body Cookies Headers (16) Test Results •	Status: 200 OK Time: 240 ms
POST getTransactionByld		Pretty Raw Province JSON V	Q Save Response
POST pos-service - logout Copy CustomerTransactionService (Live Customer Events)		1* (	u Q save response
Customer transactionservice (Live Customer Events)     LineltemService (Live Item Events)		2 - "primaryEntry": { 3 - "transaction": {	
PaymentService (Divertem Events)		4 "kg": { 5 "DuinessUnitGroupIO": "1000000000000001+".	
POST pos-service - login Copy		6 "transactionID": "63ed299bb1a59eb49dc85c24a26e2ad4" 7 ),	
POST registerLineltern Copy		8 "operatorD": "1001", 9 "workstationD": "00", 18 "buinesdi:TD": "00",	
POST getTransaction Copy		11 "busines00y0ate": 2221-08-16700:00:00.000", 12 "sequenceMunder": 11.	
POST updateTerminalTenderAuthorization		13 "transactionTypeGode": "RITER", 14 "becinoteTimestero: "2021-09-16715:22:43.482",	
POST registerTerminalPayment		15 "exdDataTimestamy": "2021-00-16715:32:25.670", 16 "cancelleGTag": false, 17 "suppendeflag": false,	
POST registerCashPayment copy		17 "Superiorderlag": false, 18 "trainingFlag": false, 19 "keyedOfFlineFlag": S&",	
POST finalizeTransaction		20 "worker10": "0007", 21 "worker10": "Jame5",	
POST pos-service - logout Copy		22 "workerLastName": "Smith8", 23 "internalSequenceNumber": 10,	
CustomerOperationService (Customer Information)		24 "fiscalFlag": false, 25 "transactionTimestemp": "2021-08-1613:12:26.679", 26 "beginnettemstampUTG": "2021-08-1613:12:24.482+0000",	
selfscanningclient-service (POS Basket-Handled SSC)		27 "endbatTimestampUTCO": 2021-08-1615122:05.979-0000", 28 "transationTimestampUTCO": 2021-08-1615132:25.679+0000",	
POST StartSelfscanningSession		29 "transaction(ategory(ist": [], 30 - "transactionExtensionList": [	
POST registerLineltem		31- ( 32- "key": (	
POST processBarcode		33 "businessUnitGroupID': "100000000000014", 34 "transationID': "5820390135904359043654264264264", 35 "extension(#", "Mutharistical", "Mutharistical",	
POST recoverTransaction POST endSelfScanningSession		36 "extensionSequenceNumber": 0	
POST endbelt5canningbession GET services (pos-service)		38 ), 39 - (	
OPT ping		40 - "key": ( 41 "businessinitGroupID": "100000000000004", 43 "businessinitGroupID": "100000000000004",	
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5. now you're finished and can call and test the pos-service logout:



#### CONTACT

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