# API monitoring procedure from Ziraat bank website

From the bank's website <u>https://www.ziraatbank.com.gr/</u> initially the user selects PSD2  $\rightarrow$  API



### Then the user selects $\rightarrow$ Ziraat Bank's APIs

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And then the user is directed to the following page where the API's are monitored : (<u>https://ziraatpsd2-coops-natech.developer.eu-de.apiconnect.ibmcloud.com/</u>)

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<b>Ziraat</b> Bank		Create an account Log
	Home Getting started API Products Blogs Forums Support	
The system is currently experiencing	problems. Please try again later.	
	Innovate with our APIs	
Wel	come to our API portal where you will find a great selection of APIs for your awesome innovative app	
	Featured APIs	
	Latest forum posts and tweets	
	Terms of use Privacy policy	

To access the API Products each user must create a User Account via the Create Account option located at the top right of the page. The user has to fill in his personal details in all the fields marked with \* and then press the button at the bottom of the page that says Create New Account.

Home Getting started API Products Blogs Forums Support	an account
Create new account       Log in       Request new password         First name *	
First name *   Enter your first name.   Last name *   Enter your last name.   Developer organization *   Enter your developer organization.   Enter your developer organization.   E-mail address *   A valid e-mails from the system will be sent to this address. Your e-mail address will also be your username.   Password Requirements   • Password must contain characters of at least 3 different types (lowercase, uppercase, digit or punctuation).   • Password *   Password *   Previde a password for the new account in both fields.	
Enter your first name.  Last name *  Enter your last name.  Developer organization *  Enter your developer organization.  Enter your developer organization.  A valid e-mail address. All e-mails from the system will be sent to this address. Your e-mail address will also be your username.  Password Requirements  Password Requirements  Password must contain characters of at least 3 different types (lowercase, uppercase, digit or punctuation).  Password must be at least 8 characters in length.  Password *  Password quality:  Provide a password for the new account in both fields.	
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Provide a password for the new account in both fields.	
CAPTCHA	
This question is for testing whether or not you are a human visitor and to prevent automated spam submissions.	
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After selecting Create New Account the following message appears: "You have been sent an account activation email. You need to click on the link in it to activate your account before you can login."

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	Home Getting started API Products Blogs Forums Support	
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The user will receive at the email address that just declared an activation email for the account which and just created which must be clicked in order to activate his account.



Selecting the activation link will activate the account and the user will be taken to the following page where they will be able to login with the username and password they just created.

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Title → Name f     Description → 1     Oath Redirect I     Certificate → R     API Manager - IBM × ③ ziraatpsd     C ④ ziraatpsd2-coops-I     Ziraat Bank  Register application  OAuth Redirect URI  OAuth Redirect URI  The URL authenticated OAuth flows for this Certificate  Paste the content of your application's x509  Submit	application should be	e redirected to.	ry for redire d certificate i Ziraat Bank Прос oud.com/application/ API Products	cting a either   mew Apps	Blogs	Forums	de. r by a ce Issues - Ziraet Bi Support	rtified aut	thority.	

#### After all the fields are filled in, select submit to complete the process of opening a new app.

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C       * zrastpad2-coops-nated.developer.eu-de.apiconnect.ibmcloud.com/node/128         Zireat Bank       * zsthens@zkrastbank.com *         Home       Getting started       API Products       Apps       Blogs       Forums       Support         II Apps       * Application created successfully.       * Vour client secret ts:       • Show Client Secret       • Show Client Secret         s. Test.       Now that you've registered your app, you can browse the available APIs and subscribe.       Make a note of your client ID and client secret. These may be needed for your application to access the API.       • Notification settings         Stress_Test_       sit Analytics       • Notification settings         Update *       Okuth Redirection URL       • Notification settings       • Notification settings         Okuth Redirection URL       • Add credentials       • Reset       • Reset	:17 3/2021
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Now that you've registered your app, you can browse the available APIs and subscribe. Make a note of your client ID and client secret. These may be needed for your application to access the API. Vour client secret will only be displayed once. If you forget or lose it, you can verify the secret to see if it's correct or reset it to get a new one. Stress_Test	
Now that you've registered you' app, you can browse the available APIs and subscribe. Make a note of your client ID and client secret. These may be needed for your application to access the API. Your client secret will only be displayed once. If you forget or lose it, you can verify the secret to see if it's correct or reset it to get a new one. Stress_Test	
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Details       .         Image: Stress_Test_	<b>i</b> Delete
Stress_Test_ Update ① OAuth Redirection URL https://iriaatpsd2-coops-natech.developer.eu-de.apiconnect.ibmcloud.com/node/100 Credentials	Edit
Default  Client ID Client ID Client A Reset	
Client ID Show Reset	t
Client Secret Verify Reset	

From the above page the only thing the user has to keep is the Client ID. The Client Secret is not used in our case because we will do authorization through Tokens. At this point the user has created the app and is now ready to proceed to the next step which is creating the API Products.

→ C	ps-natech.developer.eu-de.apiconnect.ibmcloud.com/product		☆ ≗
<b>Ziraat</b> Bank		1 it_athens@ziraa	bank.com 👻 IT te
	Home Getting started API Products Apps Blogs Forums	Support	0
•	Ziraat - Confirmation of Funds (1.0.0) (2 APIs included)	ណ៍ ណ៍ ណ៍ ណ៍ ណ៍ No votes yet	
•	Ziraat - PaymentInitiation (1.0.1) (2 APIs included)	హాహాహాహ No votes yet	
	Ziraat - Accounts (1.0.0) (2 APIs included)	ထ် သံ သံ သံ သံ No votes yet	
	Terms of use Privacy policy		

The next step the user needs to do is connect all the APIs they want to monitor to the APP they created in the previous step. Each of the API Products illustrated above consists of 2 individual APIs. One for the authentication and Token generation process and one for all calls and tasks that the user can make.

🎯 API Manager - IBM 🛛 🗙	🍪 Ziraat - Accounts   = 🗙 🛛 🏮 Ziraat Bank Apoo	📧 🗙 📔 Natech Web Plat	for 🗙 🕜 Issues - Ziraa	at Bank 🗙 🛛 🗰	Learn web services	×   +	• –	Ð	$\times$
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Ziraat - Accounts 1.0.0 APIs Ziraat Oauth2 Ziraat - Account Information Service (AIS)	তি Ziraat - Accounts 1.৫ উপ্রেক্তিক No votes yet Plans	2.0							
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	it_athens@ziraatbank.com								
	Subject								
	Comment *						14	55 -	

Therefore, the user has selected the API that he wants to connect, then click the Subscribe option. Then you are asked to select the APP that has already been created in order to complete its connection by clicking subscribe as shown in the image below.

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Accounts 1.0.0	Siraat - Accounts 1.0.	0						
rraat Oauth2 iraat - Account Information ervice (AIS)	습 습 습 습 습 No votes yet							
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	Ziraat - Account Information Service (AIS) 🗸	100 per 1	hour Selec	an applica	tion to sign up to	this plan.		
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	🖸 Share / Save 😭 👿 🕞 Book	mark this						
	Add new comment							
	Your name it_athens@ziraatbank.com							
	Subject							
	Comment *							

Upon successful completion of the connection, the memory is displayed: 'Successfully subscribed to this plan.'. The process is repeated for all the APIs that have been created. Then in order to start the authentication process we start again from the original API. From the API page that has been selected, right-click on Ziraat Oauth2. The screen that appears is as follows:

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	Home Getting started	API Products Apps	Blogs	Forums	Support					¢
iraat - Accounts 1.0.0 .PIs iraat Oauth2 1.0.0	Q Ziraat Oauth2 1.0.0	🛓 Open API	CURL F	Ruby Pythoi s this API in the	n PHP Jav.	a Node	Go Swi	int [:	Subsc	rit
Operations GET /oauth2/authorize POST /oauth2/authorize POST /oauth2/token	No votes yet Description Oauth2									
POST /oauth2/introspect Definitions	Endpoints https://api.eu- de.apiconnect.appdomain.cloud/coops- natech/ziraatpsd2	CTION DEVELOPMENT	https:/	//api.eu-de.	apiconnect.ap	odomain.clo				
access_token_response introspect_response Ciraat - Account information iervice (AIS) v1	Paths /oauth2/authorize GET /oauth2/authorize		Example F	Request						
	Summary endpoint for Authorization Code and Implicit grants Description description Security		curl url h/ziraa respons t_uri=R hea	-request GET 1 'https://a atpsd2/SandB se_type=REPL REPLACE_THIS ader 'accept	v pi.eu-de.apico ox/oauth2/auth ACE_THIS_VALUE _VALUE&state=F : text/html'	onnect.appd oorize?clie &scope=REP REPLACE_THI	lomain.clou nt_id=REPI 'LACE_THIS_ 'S_VALUE'	ud/coops LACE_THI _VALUE&r	s-nate IS_KEY redire	c & c
	client_id (apiKey located in query) application's client_id	clientID	Try this op https://api.	peration .eu-de.apiconn	ect.appdomain.c	loud/coops-				

Then select  $\rightarrow$ GET / oauth2 / authorize and fill in the required fields on the right side of the screen as shown in the image below:

client ID: It is already preset according to the APP created at the beginning.

accept: It remains as the default and no selection is required.

response\_type: There we select code.

scope: Accounts Transactions FundsConfirmation (So as to have the same authorization code for everything).

**Redirect uri:** <u>https://ziraatpsd2-coops-natech.developer.eu-de.apiconnect.ibmcloud.com/node/100</u> (for our example / The uri is declared when creating the original APP).

state: Just put OK.

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	Home	Getting started	API Products	Apps	Blogs	Forun	ns	Suppo	rt					Q	
Ziraat - Accounts 1.0.0 APIs	response_type Required in <i>query</i>	request an authorization code	or or access token (imp	licit)	cURL Client	Ruby P	ython	РНР	Java	Node Stress_	Go Test_	Swift : Defaul	Sub	oscribe ~	
Ziraat Oauth2 1.0.0 Operations	string	"enum": [ "code", "token" ]			Headers					text/ht	ml				
GET /oauth2/authorize		3													
POST /oauth2/authorize	scope	Scope being requested			* respor	nse_type				code					
POST /oauth2/token	Required in <i>query</i>				* scope					Accounts	Transa	actions	FundsCo	onfirma	
POST /oauth2/introspect	redirect_uri	URI where user is redirected to	after authorization		redire					https://	'ziraat	psd2-cod	ops-nat	ech.de	
Definitions	Optional in query				state					ok				<u> </u>	
access_token_response	string														
introspect_response Ziraat - Account Information	state Optional in <i>query</i> string	This string will be echoed back redirected	c to application when us	er is								(	Call oper	ation	
Service (AIS) v1	Accept Optional in <i>header</i> string Responses	text/html													
	200 An HTN	IL form for authentication or au	thorization of this reque	st.											
	302 Redirec • auth • acces • error	t to the clients redirect_uri cont orization code for Authorizatio is token for Implicity grant in case of errors, such as the us	aining one of the followi n code grant er has denied the reque	ng											

Then, after all the necessary fields are filled in, click on the Call Operation option. When the execution of all the above elements is finished, the following screen with the answer is displayed:

		0 it_athens@ziraatbank.com ♥ IT te				
	Home Getting started API Products Apps	Blogs Forums Support C				
raat - Accounts 1.0.0 Pis	scope Scope being requested Required in query station	CURL Ruby Python PHP Java Node Go Swift Subscrib				
raat Oauth2 1.0.0	redirect_uri URI where user is redirected to after authorization	- redirect_uri https://ziraatpsd2-coops-natech.de				
Operations GET /oauth2/authorize	Optional in <i>query</i> string	state ok				
POST /oauth2/authorize POST /oauth2/token	state         This string will be echoed back to application when user is           Optional in query         redirected           string         redirected	Call operation				
Definitions access_token_response	Accept text/html Optional in <i>header</i> string	OET https://api.eu-de.apiconnect.appdomain.cloud/coops-natech/zi Paatpsd/SandBox/oauth2/authorize?response_type-code&scope-Accou nts Transactions FundSconfirmation&redirect_uri-https://linaatps d2-coops-natech.developer.eu-de.apiconnect.ibmcloud.com/nade/190 &state=okkclint_id=06200fc-202-4800-9557-055377bocAa				
raat - Account Information	200 An HTML form for authentication or authorization of this request.	accept: text/html				
ervice (AIS) v1	302 Redirect to the clients redirect_uri containing one of the following  • authorization code for Authorization code grant	Response				
	<ul> <li>access token for implicitly grant</li> <li>error in case of errors, such as the user has denied the request</li> </ul>	No response. This is a cross-origin call. Make sure the server accepts requests from this portal. Or if using self-signed SSL certificates then paste the URL above into your browser to accept the certificate before trying again (On Internet Explorer it must be the same browser tab.).				
		0 error				

We check if an error has occurred at the bottom of the screen (in the above case it does not, so everything has worked smoothly) and then select the entire URL as shown above and copy-paste in the browser directly.

	redirect_uri = https://sreatpsd2.coops.natech.developer.ou.de.apteonnect.bmmlou Connect = OAuth Authorization Server Login = https://apt.eu.de.apteonnect.appd //apt.eu.de.apteonnect.appdom ain.cloud/scoops.natech/sreatpsd2/SandHoi/South	at conv/node/1008/state = ok/&cliant_id=08a990e=380=4880=4880=9857=085817005817100544 Somain_status/source_statu				
Ziraat - Accounts 1.0.0 APIs Ziraat Oauth2 1.0.0	scope Scope being requested	ec/lit. Roday Python Price Jeve Norde Co Switt Subscriber				
Operations GET /oauth2/authorize	Optional in query string	state ok				
POST /eauth2/authorize POST /oauth2/token	etate This string will be echoed back to application when user is Optional in query: string	Coll operation				
Definitions access_token_response Introspect_response	Accept test/itml Optional in <i>header</i> etc.log Responses					
Siraat - Account Information Service (AIS) v1	200         An Intral: form for authentication or authorization of this request.           203         Restricts the diserts restricts containing one of the following context is t	Response Heapman This is a cross-origin call. Make sure the server accepts requests				
		Protect Wite separate, Cor PF uniting, and instanced Sile, using Highers Alary associate the UAA, also associate the second bio the second biometry of the secon				

#### Pressing enter will display the page for the user to enter his personal information to log in.



This requires the user's consent to connect and Allow Access must be selected.

Then from the following screen select POST / oauth2 / Token and fill in the required fields:

Grant\_type: authorization\_code.

Client\_id: Has already been stated while creating the APP.

**Code:** It is selected by the browser directly from the command line starting after the point that states code = and up to &.

Redirect\_uri: Has already been stated while creating the APP.

**Scope:** The same as stated in the GET Authorize process (Accounts Transactions FundsConfirmation). **Refresh\_token:** access\_token.



If everything is OK then the following screen will appear with the successful result of the previous action. The access Token that we are interested in and that we have to select and copy is the one that appears selected in blue as in the screen below.

2 10.248.145.57	🛛 🗞 Connectivity.doc.pdf 🔹 🕼 Ziraat Oauth2   ziraatpsd2 🗙 👘 Ziraat Oauth2   ziraatpsd2 🗴 👘 Ziraat Oauth2   ziraatpsd2 🗴 + O =	o ×
← → C	-coops-natech.developer.eu-de.apiconnect.ibmcloud.com/node/100?code=AAlbANfcDU1znpRclLtWAk1PAriWLhvejjieZgWpxihWPdAKMNjQUVK-a_QLWc 1	k 😩 :
😻 Ziraat Bank	0 it_athens@ziraatbank.com 🔻	IT test
	Home Getting started API Products Apps Blogs Forums Support	Q
Ziraat - Accounts 1.0.0 APIs	client_id     Application client ID, can be provided in formData or using       Optional in formData     HTTP Basic Authentication       string     password	Ibscribe
Ziraat Oauth2 1.0.0 Operations	client_secret         Application secret, must be provided in formData or using         Scope         Accounts Transactions Funds           Optional in formData         HTTP Basic Authentication         refresh_token         access_token	Confirm
GET /oauth2/authorize	string	
POST /oauth2/authorize	code     Authorization code provided by the /oauth2/authorize     Call op       Optional in formData     endpoint     Request	eration
Definitions access_token_response	redirect_uri         required only if the redirect_uri parameter was included in the authorization request /oauth2/authorize; their values MUST be string         POST https://api.eu-de.apiconnect.appdomain.cloud/coops.nat inastps2/SandBox/oauth2/token content-type: application/x-www-form-urlencoded accept: application/json	ech/z
introspect_response Ziraat - Account Information	Username Resource owner username Optional in formData string Response Response	
Service (AIS) v1	password Resource owner password cache control: private, no-store, no-cache, must-revalidate content-type: application/json pragma: no-cache f	
	scope         Scope being requested         "token_type": "Bearer", "access_token": "Aliki021hijkx2mt2TM4Yy0000gvLTIINTCHK0           Optional in formData         32mIVY2RhrIv6aRnN5yN5qLd519gT8FM0aYAPgXy6gP0J3kvZzrrUJsnNQI           string         CHYX64IL           CHYX64ILep ,         CHYX64ILep ,	I1ODE EFRaE fwFW8
	refresh_token     The refresh token that the client wants to exchange for a new     "consented_on": 7775900, "consented_on": 7775900, "consented_on"; 7775900, "consented_on": 7775900, "consented_on"; 7775900, "c	

The user has received a token and has access to the bank files so all the processes required to be done from here are over. The next step is to install and configure Postman to make API calls.





G. Eind and Replace
 D. Console

Dunner Ill Trach III

## In the upper left screen the user selects Sign in and enters the following: Username: itathens

## Password: Zb123456@\*

After completing Log In the following screen will appear:

Workspaces ~ Reports Explore	Q Search Po	stman	් හි 🗘 📀 Upgrade
	Good afternoon, ziraat_ Pick up where you left off.	it!	
•	Get started with Postman		
Postman works best with teams Collaborate in real-time and establish a single source of truth for all API workflows. + Create Team	Start with something new Create a new request, collection, or API in a workspace	Import an existing file Import any API schema file from your local drive or Github	Explore our public network Browse featured APIs, collections, and workspaces published by the Postman community.
	Create New →	Import file →	Explore →
Workspaces > Integrations >	Work smarter with Postman Learn how Postman can help you at every stage of the API development.		
Help	Learn →		
Learning Center     Support Center     Bootcamp	Recent workspaces		
	NAME	LAST VIEWED	MEMI
	My Workspace	a few seconds ago	
	Announcements •	Sho	~

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## Then the user selects $\rightarrow$ Workspaces $\rightarrow$ My workspace and the following screen appears: 🥟 Postman File Edit View Help

Home	Workspaces V Reports Explore		Q Search Postmar	1	4	🕻 Invite 🖋 🕸 🗘 🚫	Upgrade v
A My Wo	rkspace New Import	Overview X	+ 000			No Environment	~ ©
Collections	+ =	A My Works	space				(i) 000
APIs     APIs     Environments     Monkors     Aitory     History	<image/>	Add summary to briefly e This is your personal, priv- collections and APIs you In this workspace 0 0 Collections APIs Activity User ~ Enti	explain what this workspace vate workspace to play arou create here - unless you sh 1 Environment ity ~	is all about und in. Only you can see th are them with your team. 0 Mock Servers	ne O Monitors Refresh	Get started	

From the Import option the users selects the API call files which are ready together with the environment as shown in the following screen.

🧭 Postman				-	đ	$\times$
File Edit V	ew Help		🥝 Open	×		
Home	Workspaces ~ Reports	Explore	← → ✓ ↑ 🔤 « Desk → Stress_tests_Post 🗸 ♂ Search Stress_tests_Postman	,c	pgrade	
A My Wo	kspace	New Import Overview X	Organise 👻 New folder 🛛 🔠 👻 🔳	?	$\sim$	$\odot$
Collections APIs Environments Mock Servers Manitors History	+ V Vou don't have any col Collections let you group relations insting them easier to accer Create Collection	A My Worksp  Import      File Folder Link Raw text Code      Drag and drop Po     OpenAPI R      Z hrs ago     Ziraat_it added the     2 hrs ago     Ziraat_it added the     2 hrs ago     Ziraat_it added the     2 hrs ago	Quick access     Desktop     Desktop     Downloads     Downloads     Downloads     Downloads     Downloads     T     Dictures     Desktop     Downloads     T     Stress_tests_Post     This PC     Desktop     Downloads     File name: PSD2.postman_environment**ZI ~ All Files (**)     Open Cance     OR     Upload Files  PSD2 environment  2 Ziraat - Confirmation of Funds Service (PIIS) collection	Date m 24/08/2 24/08/2 24/08/2 24/08/2 24/08/2 24/08/2 24/08/2 24/08/2	()	

Once the upload is complete and the files are ready the user selects Import.

- 0 ×

Home N	Norkspaces v Reports	Explore		Q Search Postman	A Invite	🔊 tôt 🔿 🍙 Ungrade 🗸
inome i	nonkopueco neporto	Explore				C the C obligation
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Collections	+ =		 My Worksp	ace		۰۰۰ (٢)
00 APIs	(°)	Import			×	arted
•		Select file	es to import · 4/4 selected			ate a request
Environments		NA	ME	FORMAT	IMPORT AS	ate a collection
<b></b>		PS	D2	Postman Environment	Environment	
Mock Servers	You don't have any coll	le 🔽 Zira	aat - Account Information Service (A	Postman Collection v2.1	Collection	ate an API
	making them easier to acces	se Zir:	aat - Confirmation of Funds Service	Postman Collection v2.1	Collection	ate an environment
Monitors	Create Collection		aat - Payment Initiation Service (PIS	Postman Collection V2.1	Collection	w More
History						q
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					Cancel Import	
		_				
			2 hrs ago			
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			2 hrs ago			
			ziraat_it added the	Ziraat - Confirmation of Funds Serv	vice (PIIS) collection	
			2 hrs ago			

Postman Edit View Help						
ome Workspaces ~ Reports	Explore	Q Search Postman		🐥 Invite 🧬 🛱 🏳 💽	Upgrade	
My Workspace	New Import	Overview × + ••••		No Environment	~	<
	ese Lion Service ( Sunds Service ( Service (PIS)	My Workspace Ad aummary to briefly explain what this workspace is all about. This is your personal, private workspace to play around in. Only you can be oblications and the workspace is all about. In this workspace A subscript of the workspace is all about. A subscript of the trans - Account Information Service (AIS) Conclusion. A subscript of the to the tareat - Account Information Service (AIS) Conclusion. A subscript of the to the tareat - Account Information Service (AIS) Conclusion. A subscript of the to tareat - Account Information Service (AIS) Conclusion. A subscript of the to tareat - Account Information Service (AIS) Conclusion. A subscript of the to tareat - Account Information Service (AIS) Conclusion. A subscript of the to tareat - Account Information Service (AIS) Conclusion. A subscript of the to tareat - Account Information Service (AIS) Conclusion. A subscript of the to tareat - Account Information Service (AIS) Conclusion. A subscript of the totareat - Account Information Service (AIS) Conclusion. A subscript of the totareat - Account Information Service (AIS) Conclusion. A subscript of the totareat - Account Information Service (AIS) Conclusion. A subscript of the totareat - Account Information Service (AIS) Conclusion. A subscript of the totareat - Account Information Service (AIS) Conclusion. A subscript of the totareat - Account Information Service (AIS) Conclusion.	ne the am. O Monitora Refresh Ppy 2 Ppy 2	Get started  Create a request  Create a collection ~  Create an API ~  Create an API ~  Create an API ~  Sharing Visibility  A Personal ~ Only you can access	3	
		ziraat_lt added the Ziraat - Account Information Service (AIS) Co collection 3 hrs ago	ру			
		ziraat_it added the Ziraat - Account Information Service (AIS) Co collection 3 hrs ago	рру			
9. Find and Replace				Restamp F Russ	or III Trach	

As soon as the import procedure is completed the following screen will appear:

At this point the 3 API calls we want to test and a user interface to enter variables are loaded. These are the following:

- Ziraat- Account Information Services.
- Ziraat- Confirmation of Pay.
- Ziraat- Payment Initiation Services.
- Environment (PSD2).

The next step is to enter the variables in the PSD2 environment. As a result, the user selects the Environments option from the left column according to the following screen:



Then, in the upper right corner as shown in the screen above, the user must select from the drop down menu the option PSD2 which is the interface for entering the required variables. The data of the variables required for registration are the following:

- Certificate
- ZiraatClient
- ZiraatAccToken
- ZiraatAccount

#### As shown in the following screen:

🥝 Postman File Edit Vi	ew Help												- 0	×
Home \	Norkspaces ~ Reports	Explore				Q Search Po	ostman		4	്റം Invite	c <sup>ine</sup> 🕸 🗘	$\odot$	Upgrade	~
은 My Wor	kspace	New	Import	Overview	v	PSD2	$\times$	+ •••			PSD2		~	0
2	+ =			PSD2						앟 Fork	0 Sav	e 🔑 Shar	B 000	(1)
Collections	Globals				domain									ę
APIs	PSD2		0		certificate									
e.					paymentId									
Environments					consent									
Mock Servers					accountId									
MOCK Servers				$\sim$	ziraatClient									
Monitors				$\sim$	ziraatAccToken									1
-9					ziraatTranToken									
History				≑ □	token1								× 000	
					token2									
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					token5									
					client1									
					Account1									
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					Account4									
					Account5									T
					COFtoken									
				Q	Use variables to r values with your t	euse values in diffe eam. Learn more at	rent places. pout variable	Work with the values	e current value of	a variable to p	revent sharing se	nsitive	×	
E Q Find	and Replace 🗈 Console										@ Bootcamp	Runner	面 Trash	• 7

This information is provided by the Portal during the process of opening a new App. For example, we quote the following image with the above fields completed to make calls to the API (for test period).

[0] PS	02 × +		PSD2 👻
PSD	2		V Fork 0 [☐fave ≠ Share +++
U	paymentid		
	consent		
	accountId		
	ziraatClient		06a690fc+e38c-4880-9b57-0b5817fb0c4a
	ziraatAccToken		AAlkMTc5MWM3N2Et0GU30C00MzVmLWI50WEtMDc3ZGU4ZTYxNmZIXtUleYZyeeR6ffcydm6qhfina
	zirastTranToken		
	Token1		$\label{eq:constraint} AAlkMD2hN jkwZmMtZTM4Yy000DgwLTIINTctMGI10DE3ZmlwYzRh37iGeqS14hRMrGBkulqAMHAAwJ$
	Token2		AAlkMDZhNjkwZmMtZTM4Yy000DgwLTiiNTctMGI10DE3ZmlwYzRh9lLgWtmxpq3Rt5JNh4ZK20o0MX
	Token3		AAIkMDZhNjkwZmMtZTM4Yy000DgwLTiiNTctMGf10DE3ZmIwYzRhXGXh0PmTFov_psHfUSoqGdtw-fg
~	Token4		AAlkMDZhNjkwZmMtZTM4Yy000DgwLTliNTctMGt10DE3ZmlwYzRhi0N2mGo0as0JmTFEPwoJmg3H9
	token5		
	client1	1	
	Account1		90511AF6+4B48+4201+8EAA+2304B03BCDDD
2	Account2		52D29F8A-EFD8-40C2-9440-A386AF3EF1D4
	Account3		0BC59D41-C8B5-4F19-86B3-72693BB94C2A
	Account4		EDAC33E6-D705-470F-81B0-654D85061FB7
e 🗌	Account5		X
	COFtoken		
	PISPCertificate		
	ZiraatAccount		F13457F3-A98E-4719-BFA8-F0FF78EF10D5
	Add a new variable		

The next step is for the user in the Postman application to create the process for making the calls. From the Postman application the user selects File  $\rightarrow$  New Runner Tab as shown in the screen below:

Ø Postman	inu Unin										- 0	×
New	ctrl+N	1					_					
New Tab	Ctrl+T	is Explore			C Search Postman	62	A Invite	G.,,	101	ф <b>С</b> Э	Upgrade	~
New Runne	er Tab Ctrl+Shift+R	Postman, Restart now to install	the update.								Restart	×
New Postn	man Window Ctrl+Shift+N											
Import	Ctrl+O	New	Import	+	000			F	SD2		~	0
Settings	Ctrl+Comma		000									
Close Wind	dow Ctrl+Shift+W	ation Service (AIS)										
Close Tab	Ctrl+W	ation Service (AIS) Copy										
Force Close	e Tab Alt+Ctrl+W	ation Service (AIS) Copy 2										
Exit	211001 - AUGUUITETHIOT	mation Service (AIS) Copy 3										
Environments	> Ziraat - Account Infor	mation Service (AIS) Copy 4										
8	> Ziraat - Account Infor	mation Service (AIS) Copy 5										
Mock Servers	> Ziraat - Confirmation	of Funds Service (PIIS)										
4.	> Ziraat - Confirmation	of Funds Service (PIIS) Copy										
Monitors	> Ziraat - Confirmation	of Funds Service (PIIS) Copy 2										
Ð	> Ziraat - Confirmation	of Funds Service (PIIS) Copy 3										
History	> Ziraat - Confirmation	of Funds Service (PIIS) Copy 4										
	> Ziraat - Confirmation	of Funds Service (PIIS) Copy 5										
	> Ziraat - Payment Initia	ation Service (PIS)										
	> Ziraat - Payment Initia	ation Service (PIS) Copy										
	> Ziraat - Payment Initia	ation Service (PIS) Copy 2										
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🗉 🔍 Find	d and Replace 🕞 Console							Ø	Bootcan	np 🗈 Runni	er 🗓 Trash	• 7

### And then the Runner option opens as shown in the following screen:

File Edit Vi	iew Help						~
Home \	Workspaces ~ Reports Explore		Q Search Postman	∠ A Invite	K, 💩 🖯 🙆	Upgrade	~
() An upd	late has been downloaded for Postman. Restart now to	o install the update.				Restart	×
은 My Wor	kspace	New Import	▶ Runner × + ••••		PSD2	~	0
Collections & APIs Environments Mock Servers Monitors History	E      Ziraat - Account Information Service (AIS)     Ziraat - Account Information Service (AIS)     Ziraat - Account Information Service (AIS) Copy     Ziraat - Confirmation of Funds Service (PIIS) Co     Ziraat - Confirmation Service (PIIS) Co	9 0000 9 2 2 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	RUN ORDER Deselect All Select All	Reset Iterations Delay Data	1         0         Select File         Save responses ③         Xeep variable values         Run collection without cookies         Xave cookies after cookies         Save cookies after cookies	© t using stored	ms
	<ul> <li>&gt; Ziraat - Payment Initiation Service (PIS) Copy</li> <li>&gt; Ziraat - Payment Initiation Service (PIS) Copy 3</li> <li>&gt; Ziraat - Payment Initiation Service (PIS) Copy 3</li> <li>&gt; Ziraat - Payment Initiation Service (PIS) Copy 5</li> <li>&gt; Ziraat - Payment Initiation Service (PIS) Copy 5</li> </ul>	2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	You can find your previous collection runs in history or import past runs.				

Then the user with drag n 'drop selects the call (AIS) Account Information service and releases it next to the Runner that was previously opened as shown in the following screen:

🥝 Postman			- 🗆 ×
File Edit Vi	ew Help		
Home	Norkspaces V Reports Explore	Q Search Postman	🌀 👫 Invite 🖑 🗔 💭 Upgrade 🗸
() An upo	ate has been downloaded for Postman. Restart now to install the update.		Restart ×
옷 My Wor	kspace New Import	▶ Runner × + •••	PSD2 ~ 💿
1	+ = 000	DUN ODDED Desclost All Colort All Desct	
Collections	<ul> <li>Zireat - Account Information Service (AIS)</li> </ul>	RON ORDER Deselect All Select All Resel	
~	Ziraat - Account Information Service (AIS) Copy	C C C C C C C C C C C C C C C C C C C	i Iterations 1
APIs	> Ziraat - Account Information Service (AIS) Copy 2	C > C > C > CET Read Balance	
D	> Ziraat - Account Information Service (AIS) Copy 3	Image: Section (Section (S	Delay 0 ms
Environments	> Ziraat - Account Information Service (AIS) Copy 4		Data Select File
	> Ziraat - Account Information Service (AIS) Copy 5		
Mock Servers	> Ziraat - Confirmation of Funds Service (PIIS)		Save responses (3)
[An]	> Ziraat - Confirmation of Funds Service (PIIS) Copy	GET Get Consent Request	Keep variable values
Monitors	> Ziraat - Confirmation of Funds Service (PIIS) Copy 2	DEL Delete Consent	Run collection without using stored
-	> Ziraat - Confirmation of Funds Service (PIIS) Copy 3	GET Consent status reque	s cookies
History	> Ziraat - Confirmation of Funds Service (PIIS) Copy 4	POST Create consent	Save cookies after collection run ③
	> Ziraat - Confirmation of Funds Service (PIIS) Copy 5	POST Start the authorisation process for a conser	n
	> Ziraat - Payment Initiation Service (PIS)	GET Read Account List	Run Ziraat - Account Information
	> Ziraat - Payment Initiation Service (PIS) Copy	GET Read Account Details	
u l	> Ziraat - Payment Initiation Service (PIS) Copy 2	GET Read transaction list of an account	
	<ul> <li>Ziraat - Payment Initiation Service (PIS) Copy 3</li> </ul>		
	Ziraat - Payment Initiation Service (PIS) Copy 4		
ŭ	> Ziraat - Payment Initiation Service (PIS) Copy 5		
E S Find	and Replace D. Console		⊕ Bootcamp I Runner III Trash III (?)

Then for this call the user leaves the first 5 fields selected as shown in the screen below:

🥝 Postman File Edit Viev	v Help				- 0	×
Home W	orkspaces ~ Reports Explore	Q Search Postman	A Invite	es 🕸 🔅 📀	Upgrade	~
() An updat	e has been downloaded for Postman. Restart now to install the update.				Restart	×
은 My Works	space New Import	▶ Runner × + ***		PSD2	$\sim$	0
My Works Collections APIS Environments Collections Mock Servers Monitors Monitors History	New         Import	Runner       +       ====         RUN ORDER       Deselect All       Select All       Reset         >       >       >       >       >       CET       Read Transact         >       >       >       >       >       >       CET       Read Transact         >       >       >       >       >       >       >       >       >       CET       Read Transact         ><	t Delay Data	PSD2  1  Select File Save responses  File Keep variable values Run collection without cookies Save cookies after coll Run Ziraat - Account Infe	Using stored lection run	© ms

The user then selects the blue button to make the call  $\rightarrow$  Run Ziraat-Account Information service. The same procedure is repeated for the next calls that the User wants to make.