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1. The Developer Portal user interface

Use the menu items in the Developer Portal user interface to register applications, work with APIs, and obtain support.

The following sections detail the items in the main menu of the Developer Portal user interface, and summarize the activities that you can complete on each of the associated pages.

1.1. Home

The Home links directly to the APIs page.

1.2. Getting Started

The Getting Started page describes the tasks that you complete to begin working with APIs in the Developer Portal.

1.3. API Products

The API Products page shows all the APIs that are available for you to work with. Click the name of an API to see the details of that API, and to test it.

1.4. My Apps

From the My Apps page, you register new applications so that you can use the APIs that are available to you. The My Apps page shows all the applications that you have registered. Click the name of an application to see the details of that application, and to modify it.

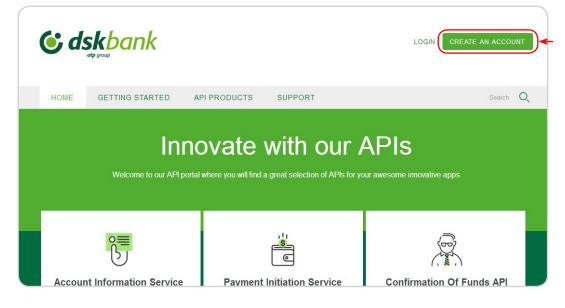
1.5. Support

From the Support page, you can view frequently asked questions, and submit a question or feedback by email.

2. Creating a new developer account

You can create new developer accounts in the Developer Portal.

Step 1: From the Developer Portal home page – *developer.dskbank.bg*, click *Create an account*.



Step 2: Populate the available fields with the details of the developer account you want to create.

Step 3: Click Create new account.

- Name
- Last Name
- E-mail
- Accept Terms & Conditions of Use
- CAPTCHA

If you don't already have an account, create one no	
Please complete this form to request a Developer D	SK
Bank Account	
NAME *	
LAST NAME *	
E-MAIL *	
Accept Terms & Conditions of Use *	
\Box Accept Terms & Conditions of Use *	
X La _{T d}	
X La _{T d}	
X La T d What code is in the image? *	

Bank Account NAME * LAST NAME * E-MAIL * Accept Terms & Conditions of Use * X La T d	e an account	
LAST NAME *	Iready have an account, create one r	now
NAME *	lete this form to request a Developer	DSK
LAST NAME *	nt	
E-MAIL * Accept Terms & Conditions of Use * X L a T d What code is in the image? *		
Accept Terms & Conditions of Use * $X La_T d$ What code is in the image? *		
X La T d What code is in the image?*		
What code is in the image? *	rms & Conditions of Use *	
What code is in the image? *	9	
	Td	
Enter the characters shown in the Image.		
	n the image? *	
Generate a new captcha		

The e-mail address you provided for the new developer account will receive an e-mail containing an activation link for the new developer account. *The link is valid 24 hours!*

3. Changing your password

You can change your password in the Developer Portal password.

You need to login to view this content!

Step 1: From the Developer Portal home page, select *My account*.

()	iskbank			COUNT MY ORGANIZATION	LOG OUT
HOME	GETTING STARTED	API PRODUCTS MY AF	PPS SUPPORT		Search Q
		Ovate wit			
				Byom.	
Acco	unt Information Service Provider API	Payment Initiation Provider		Confirmation Of Fund	s API
Accoun	t Information Service Provider API			Confirmation Of Funds A	PI
	Detail	Detail		Detail	

Step 2: Click Password

Step 3: Enter your current password, then enter your new password in the Password and Confirm password fields.

Step 4: Click Save

CURRENT PASSWORD
Enter your current password to change the Password. Request new password.
Password Requirements Password must contain characters of at least 3 different types (lower Password must be at least 8 characters in length.
Password
Confirm password

CURRENT PASSWORD	
Enter your current password to chan	ge the Password. Request new password.
Password Requiren	nents
Password must contain cha	aracters of at least 3 different types (lowercase, u
 Password must be at least 	8 characters in length.
Password	
	Password quality:
Confirm password	

F-b	the Password, Request new password,	
Enter your current password to change	the Password, Request new password,	
Decouverd Decuirem		
Password Requirem		
	acters of at least 3 different types (lo	owercase,
 Password must be at least 8 	characters in length.	
Password		
	Password quality:	God
Confirm password		
	Passwords match: yes	
Confirm password		

4. Change user settings

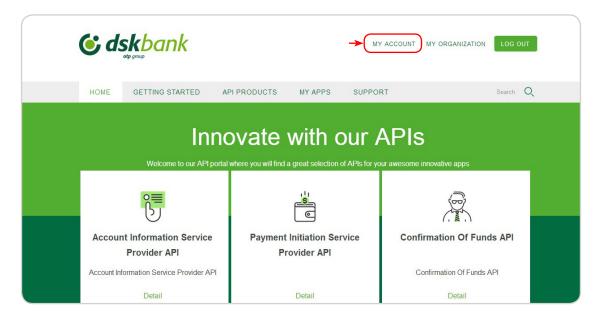
You can edit user settings in the Developer Portal, including timezone and account settings.

You need to login to view this content!

4.1. Changing your account settings

You can edit your Developer Portal account settings.

Step 1: Select *My account* in the Developer Portal home page.



Step 2: Select Account, and then click Edit.

Ac	ccount Password
Vie	iew Edit

Step 3: From this view you can change multiple features of your account.

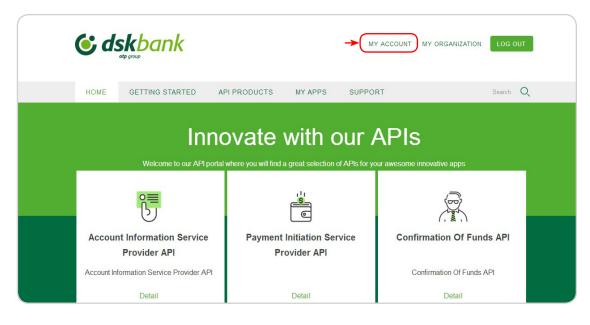
Step 4: Click Save.

 Locale settings 		
TIME ZONE		
Europe/Helsinki: Wednes	sday, September 12, 2018 - 16:49 +0300	-
Select the desired local time and	time zone. Dates and times throughout this site will be	e displayed using this time zone.
SAVE		

4.2. Changing your timezone setting

You can change your timezone setting in the Developer Portal.

Step 1: Select *My account* in the Developer Portal home page.



Step 2: Select Account, and then click Edit.

	١
Account Password	
View Edit ←	

Step 3: You can change the time zone from this view, under the Locale Settings tab.

ME ZONE						
Europe/Helsink	i: Wednesday, Sep	tember 12, 2018 - 1	6:49 +0300	•	►	
lect the desired loc	al time and time zone. I	Dates and times through	out this site will be dis	played using this til	me zone.	

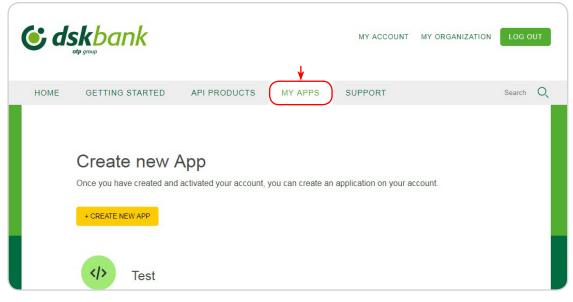
Step 4: Click Save.

IME ZONE				-	
Europe/Helsinki:	Wednesday, Septemb	oer 12, 2018 - 16:49 +	0300	-	
elect the desired local	time and time zone. Dates	and times throughout this	site will be displayed usi	ng this time zone.	

4.3. Changing your application notification settings

You can change your application notification settings in the Developer Portal.

Step 1: From the Developer Portal home page, click My Apps.



Step 2: Select the target application. **Step 3**: Click *Notification settings*.

Test DEVELOPMENT	alt Analytics (♣ Notification settings) ■ Delete
Details	✓ Edt
≻ Test</th <th></th>	
opullo 1	

Step 4: Enable notifications, and then configure what you require notification for.

Send a notification when		
Rate limit is exceeded		
90% of the Rate limit is reached		
75% of the Rate limit is reached		
50% of the Rate limit is reached		
SELECT HOW OFTEN TO SEND NOT	FICATIONS	
Every minute		
Every hour		
Every day		

Step 5: Click Submit.

5. Applications in the Developer Portal

You can view, edit, configure, and create applications in the Developer Portal.

5.1. Registering an application

Before you can use an API, you must register your application to the Developer Portal!

When you register an application you are provided with a client ID and client secret for the application. You must supply the client ID when you call an API that requires you to identify your application by using a client ID and client Secret.

Step 1: Click My Apps. The My Apps page opens.

; d	skbank of group			MY ACCOUNT	MY ORGANIZATION	LOG O	UT
HOME	GETTING STARTED	API PRODUCTS	MY APPS	SUPPORT		Search	Q
	Create new A		you can create an a	pplication on your a	count.		
	+ CREATE NEW APP						
	Test						

Step 2: Click Create new App.

Create new App
Once you have created and activated your account, you can create an application on your account.
+ CREATE NEW APP

Step 3: Complete the displayed fields.

Register application	
Once you have created and activated your account, you can create an application on your account!	
TITLE	
DESCRIPTION	
OAUTH REDIRECT URI	
The URL authenticated OAuth flows for this application should be redirected to.	
SUBMIT	



& dskbank

OAUTH REDIRECT URI	
The URL authenticated OAuth flows for this application should be redirected to.	

Step 5: Make a note of your client secret because it is only displayed once. You must supply the client secret when you call an API that requires you to identify your application by using a Client ID and Client Secret.

(; a	lskbank otp group			MY ACCOUNT	MY ORGANIZATION	LOG OUT	
HOME	GETTING STARTED	API PRODUCTS	MY APPS	SUPPORT		Search Q	
Application created succ Your client secret is:	essfully.						
			Show Client Secret)←			
est							
Test	DEVELOPMENT						nh Analytics │ 🏚 Notification settir
Details							
	est						

Step 6: Optional: The client ID is hidden, to display the client ID for your application, select the **Show check box** for Client ID. The client ID is displayed and can be hidden again by clearing the check box

Test	DEVELOPMENT	📲 Analytics 🌲 Notification settings 🖀 Delete
Details		🖊 Edit
Update ± Description Test	st	
Credentials		✓ Edit
Client ID Client Secret	Show	Lot

Step 7: Optional: To add an image, click *Update* under the default image. A new window opens; click *Browse*, select an image from your directory, and click *Submit*.

ſ	Details	🖍 Edit	
	Test		
	Update 1		



Upload an application image	
Select an image	
Choose File No file chosen	
Upload a file, allowed extensions: jpg, jpeg, png, gif	

Step 8: Optional: To specify or change the URL that authenticated OAuth flows for this application should be redirected to, click the *Edit* icon and then update the OAuth Redirect URI field.

Test DEVELOPMENT		🖬 Analytics 🌲 Notification settings 👔 Delete
Details		→ Zedit
≻ Test</th <th></th> <th></th>		
	Edit application	
	TITLE	
	Test	
	DESCRIPTION	
	OAUTH REDIRECT URI	
	The URL authenticated OAuth flows for this application should be redirected to.	
	SUBMIT	

Step 9: Optional: To change the application name or description, click the *Edit* icon.

Test DEVELOPMENT	vit Analytics. ♠ Notification settings 🛢 Delete
Details	→ C Edit
Update ±	

Your application is registered!

5.2. Editing an application

You can edit applications in the Developer Portal. If a user has the correct permissions, they can edit the content of any application in their organization.

Step 1: From the Developer Portal home page, click *My Apps*.

i d :	skbank op group		¥	MY ACCOUNT	MY ORGANIZATION	LOG O	UT	
HOME	GETTING START	ED API PRODUCTS	MY APPS	SUPPORT		Search	Q	
	Create ne Once you have create + CREATE NEW APP	ed and activated your accoun	it, you can create an a	pplication on your a	ccount.			

Step 2: Select the target application. **Step 3**: Click *Edit*.

Test DEVELOPMENT	alt Analytics 🌲 Notification settings 🖀 Delete
Details (/) Test Update ±	► Edit

Step 4: Make any required changes, then click Submit

Test DESCRIPTION OAUTH REDIRECT URI The URL authenticated OAuth flows for this application should be redirected to.	TITLE		
DESCRIPTION			
OAUTH REDIRECT URI	Test		
	DESCRIPTION		
The URL authenticated OAuth flows for this application should be redirected to.	OAUTH REDIRECT U	RI	Å
The URL authenticated OAuth flows for this application should be redirected to.			

5.3. Deleting an application

You can delete applications in the Developer Portal.

Step 1: From the Developer Portal home page, click *My Apps*.Step 2: Select the required application.Step 3: Click *Delete*.

Test DEVELOP	MENT				ılı Analytics	Notification settings	Telete
Details							🖌 Edit
Update ±	est						
	OU SURE yo	ou want to	o delete t	his app	licat	tion?	
DELETE	CANCEL						

5.4. Changing an application image

You can change the image for an application in the Developer Portal.

Step 1: From the Developer Portal home page, click *My Apps*.

Step 2: Click the application for which you want to change the image, and click **Update**.

Description Test Description Test Credentials Default Client ID			
Update * Delete Credentials Default Cient ID	Details		
Test Credentials Default Client ID	<u>~</u>		
Client ID	Test		
	Default		
		Show	

Step 3: Browse for the target image, then click **Submit**.

You can remove the image by clicking **Delete**.

5.5. Setting up notifications for an application

You can enable notifications for applications so that you are alerted when the usage of an API is nearing its rate limit. If you notice that an application is reaching its rate limit, you can take action such as changing the Plan to avoid impacting the users of your application.

You can control the frequency and method of receiving notifications that inform you when the usage of an API is approaching and exceeding the rate limit set on the Plan you selected.

You can view notifications from the built-in activity feed and by email with the option to turn off email notifications.

If you have one or both of the following conditions, then you cannot receive notifications:
 The API developer disabled the activity log policy for an operation.

 The name of the rate limit plan that you are subscribing to is not one of the names that is valid for the notifications to function.

To set up notifications for an application, complete the following steps:

Step 1: Click My Apps. The My Apps page opens.

i d :	skbank op graup		↓	MY ACCOUNT	MY ORGANIZATION	LOG O	UT
HOME	GETTING STARTED	API PRODUCTS	MY APPS	SUPPORT		Search	Q
	Create new A Once you have created and + CREATE NEW APP		t, you can create an a	pplication on your a	count.		
	Test						

Step 2: Select the application that you want to work with.

Step 3: Click the Notification settings tab. The notification settings page is displayed.

Test	DEVELOPMENT	v∎ Analytics 🌲 Notification settings 🛢 Delete
Details		🖌 Edit
Update ±	Test	

Step 4: Select the *Enable notifications for this application* check box.

٢	dskbank	

	Rate limit is exceeded
	90% of the Rate limit is reached
	75% of the Rate limit is reached
	50% of the Rate limit is reached
SELE	CT HOW OFTEN TO SEND NOTIFICATIONS
	Every minute
	Every hour
	Every day
	Every day

Step 5: By default you always receive notifications when the rate limit is exceeded. If you want to be notified before the rate limit is exceeded, select one of the following options:

- 50% of the Rate limit is reached
- 75% of the Rate limit is reached
- 90% of the Rate limit is reached

Step 6: Select how frequently you want to receive a notification from one of the following options.

- Every minute
- Every hour
- Every day

You only receive one notification per operation per rate limit threshold within your chosen time interval. For example, if you choose Every hour and the 75% rate limit is reached twice, you are notified about it only once.

Step 7: After you enable notifications, you always receive them in the built-in activity feed. If you also want to receive notifications by email, select the Email check box.

	Rate limit is exceeded	
	90% of the Rate limit is reached	
	75% of the Rate limit is reached	
	50% of the Rate limit is reached	
	SELECT HOW OFTEN TO SEND NOTIFICATIONS	
	Every minute	
	Every hour	
	Every day	
	Built-in activity feed	
	Email	
ſ		
	SUBMIT	

The notification settings for your application are defined!

6. APIs in the Developer Portal

6.1. Browsing available APIs, code snippets, and example operations

You can browse available APIs and their code snippets through the Developer Portal. Code snippets are sample code fragments that are generated automatically from REST APIs. They demonstrate how an API consumer can invoke and use an API operation.

HOME GETTING STARTED API PRODUCTS SUPPORT Search
API Products

Step 2: To see more details, click the Product that contains the required API, then click the API. You can see the following information:

- Any additional documentation available for you to read.
- If you need to provide a Client ID or Client Secret to access this API.

Step 1: From the Developer Portal home screen, click API Products.

- The authentication requirements that are required to access the API.
- The operations or WSDL operations that belong to the API.
- The Plans that the operations belong to, including any pricing details.

(Source States	LOGIN	CREATE IN ACCOUNT
	HOME GETTING STARTED API PRODUCTS	SUPPORT	Search Q
N8-P100			
P3			
ccount information Bervice Provider Pl 1.0.0	F Account Information Service Provider API 1.0.0	cURL Ruby Python	PHP Java Nade Do Bwat C Cat
Operations	± Open API		
GET /accounts			
GET (accounts (account-id)	Description		
GET /accounts/(accountHd)/bala	Account Information Service Provider API		
GET /accounts/(account-id)/trans	Documentation		
GET (accounts/(account+id) trans	Latest update is published here		
OET /consents	~ Contact Information		
POST (consents			
GET (consents (consent-ld)	tridpointa		
DELETE (consents (consent-lo)	https://epigete.lbs/g_bg/lbs/bo #epouchic	https://apigate.ibsbg	
GET /consents/(consent+id) istatus	development		
Defations	Paths		
Amount	/accounts		
Account			
AccountReport	GET accounts	Example Request	
	account	auf -request GET \	
Belences		-uni https://epigete.itostog. -header accept application	
BingleBalance	Summary Association devices	-header suthorization: B	
resectors	Account resource	-header psu-accept: REI	NOVETHISTOWING A

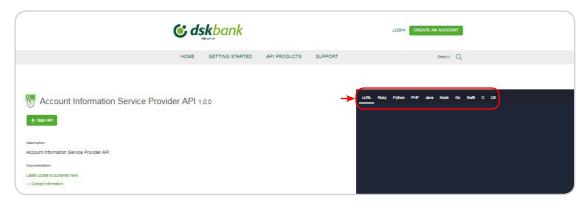
Step 3: To view the example code of an operation:

Click the operation's tab to expand and show its details, including code examples. You can view the example code for your operation in several languages:

- cURL
- Ruby
- Python



- PHP
- Java
- Node
- Go
- Swift
- C
- C#



6.2. Selecting a Plan

A Plan is a collection of REST API operations and SOAP API WSDL operations. In the Developer Portal you can browse and select the most appropriate Plan to use with your application.

You must register an application to use with a Plan.

To select a Plan, complete the following steps:

Step 1: In the Developer Portal, click API Products.



Step 2: Click the Product that contains the Plan that you want to work with.

Step 3: In the Plan section of the Product, click the Plan on the left that you want to use. The details of the selected Plan are displayed.



E dskbank					MY ACCOUNT	MY ORGANIZATION		т
	HOME	GETTING STARTED	API PRODUCTS	MY APPS	SUPPORT		Search	Q
AIS-P 1.0.0 APIs Account Information Service Provider API		Plans	P 1.0.0					
				Default Pl	-			
		Account Information Service Pro	ovider API 1 V	100 per Free				
				SUBSCR	RIBE			

Step 4: After you have identified the plan that you want to use, click Subscribe. The Subscribe dialog box is displayed.

Step 5: Select the application that you want to use with this Plan, and click *Subscribe*. The application details are displayed.

	Select an application to sign up to this plan.	
×	◯ Test MP	
Subscribe	Test MP One	
	Test Test	
Application	Test new 2	
Select an application to sign up to this plan.	🔿 Test Two	
C Test MP	Test New	
Test MP One	New	
O Test Test	irvi test	
Test new 2	New test	
🔿 Test Two	Test Test Test	
Test New		
New		

Step 6: Optional: To view the operations for the APIs that are included in the Plans to which the application is subscribed, click the name of the API.

0	
Diana	
Plans	Default Plan 🔒
Account Information Service Provider API 1.0.0	100 per hour
GET /accounts	100 per hour
GET /accounts/{account-id}	100 per hour
GET /accounts/{account-id}/balances	100 per hour
GET /accounts/{account-id}/transactions	100 per hour
GET /accounts/{account-id}/transactions/{transac	100 per hour
GET /consents	100 per hour
POST /consents	100 per hour
GET /consents/{consent-id}	100 per hour
DELETE /consents/{consent-id}	100 per hour
GET /consents/{consent-id}/status	100 per hour
	Free

Step 7: If the Plan is not restricted, you can use it immediately. If the Plan is restricted, the Plan is shown as Pending Approval, and you cannot use the requested Plan until the administrator approves your request.

You have selected a Plan!

6.3. Signing up to use an API

You can sign up to use an API in the Developer Portal.

You must have registered an application in order to sign up to use an API.

Step 1: From the Developer Portal home page, click API Products.

& dskbank		LOGIN CREATE AN ACCOUNT
HOME GETTING STARTED API PRODU	UCTS SUPPORT	Search O
Get started with open source APIs and details of help shape the way we bank in the future. The AF		

Step 2: Click the name of the API you want to work with, and click *Details*.

Step 3: In the Plans section, identify the Plan that you want to work with from the list of Plans available on the left, then click *Subscribe*.

Step 4: Use the radio buttons to select the application with which you want to use this Plan, then click *Subscribe*. You have signed up to use an API.

6.4. Viewing application subscriptions

You can view which APIs your application is subscribed to in the Developer Portal.

() d	skbank			LOGIN CREATE AN ACCOUNT
HOME	GETTING STARTED	API PRODUCTS	SUPPORT	Search C
		API	Products	
Get		Pls and details of some of o	ur products. Use our APIs	s to create new customer experiences and applications that integrate with some of our

Step 1: From the Developer Portal home page, click *My Apps*.

Step 2: Click the name of the target application. Details of the Plans and APIs subscribed to by your application are displayed.

Subscriptions	
Plans	
ais-p (1.0.0) (default)	🚯 View Details 🛛 💸 Unsubscribe

6.5. Unsubscribe from a Plan

You need to login to view this content!

Step 1: From the Developer Portal home page, click *My Apps*.

i d s	skbank ote group			MY ACCOUNT	MY ORGANIZATION	LOG O	UT
HOME	GETTING STARTED	API PRODUCTS	MY APPS	SUPPORT		Search	Q
	Create new A	Арр					
	Once you have created and	activated your account	t, you can create an a	application on your a	count.		
	+ CREATE NEW APP						
	Test MP						

Step 2: Click the name of the target application. Details of the Plans and APIs subscribed to by your application are displayed.

Subscriptions	
Plans	
ais-p (1.0.0) (default)	👩 View Details 🔢 🗞 Unsubscribe

Step 3: To unsubscribe from a Plan, click **Unsubscribe** alongside the Plan name.

Subscriptions	
Plans	
ais-p (1.0.0) (default)	🚯 View Details 🛞 Unsubscribe

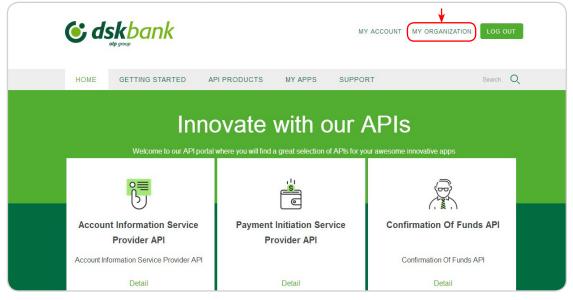
7. Developer organizations in the Developer Portal

You can add, remove, and configure Developer organizations in the Developer Portal.

7.1. Editing the name of a Developer organization

You can edit the name of your Developer organization from within the Developer Portal.

Step 1: On the Developer Portal home page, click *My organization*.



Step 2: In the Manage tab, click Edit Organization.

Manage Analytics	
MY ORGANIZATION	
Edit Organization	Add a user J
(1) 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Status: ACTIVE	

Step 3: Enter the new name for your Developer organization in the Organization name field, and then click *Submit*. You have changed the name of your Developer organization.

Edit My Org	anization	
ORGANIZATION NAME		
Test		

7.2. Adding users to a Developer organization

If the API provider organization administrator has granted you permission to collaborate, you add users to your Developer organization with the Users panel. Those users can then access the Developer Portal and use the APIs that have been made available to the Developer organization.

To invite users to join your Developer organization, complete the following steps.

The Users panel is only visible if the API provider organization administrator has granted you permission to collaborate.

Step 1: On the Developer Portal home page, click *My organization*.

C dskbank			
HOME GETTING STARTED	API PRODUCTS MY APPS SU	JPPORT Search	Q
	Ovate with ou		- - -
Account Information Service Provider API	Payment Initiation Service Provider API	Confirmation Of Funds API	
Account Information Service Provider API	Detail	Confirmation Of Funds API	

Step 2: Click Add a user.

Manage Analytics	
MY ORGANIZATION	
Edit Organization	Add a user J
Status: ACTIVE	

Step 3: Enter the e-mail address of the new user in the New user's e-mail address field.



ROLE Viewer App Developer	Viewer	NEW USER'S E-MAIL ADDRESS		
	App Developer			
	Select which role the new user will have in your organization.	App Developer		

Step 4: Under the Role heading, use the radio buttons to select a role for the new user, the roles are:

- *App Developer* Can create and edit applications and subscribe to Plans.
- Viewer Can only view applications and application activity.

App Developer	Viewer
View and create applications	View applications
View Products and APIs	View Products and APIs
View subscriptions and subscribe to use APIs	View subscriptions
Use the Developer Portal test tool	Use the Developer Portal test tool

Step 5: Click Invite new user.

The user is added to the Developer organization, and they are sent an email with the subject line: "Welcome to *developer_organization_name*". The user must click the link that is provided to activate their account and complete the setup.

7.3. Removing a user from a Developer organization

You can remove a developer from a Developer organization in the Developer Portal.

You must be the owner of your Developer organization and have previously added the developer you wish to remove from the organization.

Step 1: On the Developer Portal home page, click *My organization*.

Step 2: Click Manage in the menu.

Step 3: Click *Remove user* for the user you want to remove.

Status: ACTIVE	
Role: App Developer	
REMOVE USER	