



Data Science Academy

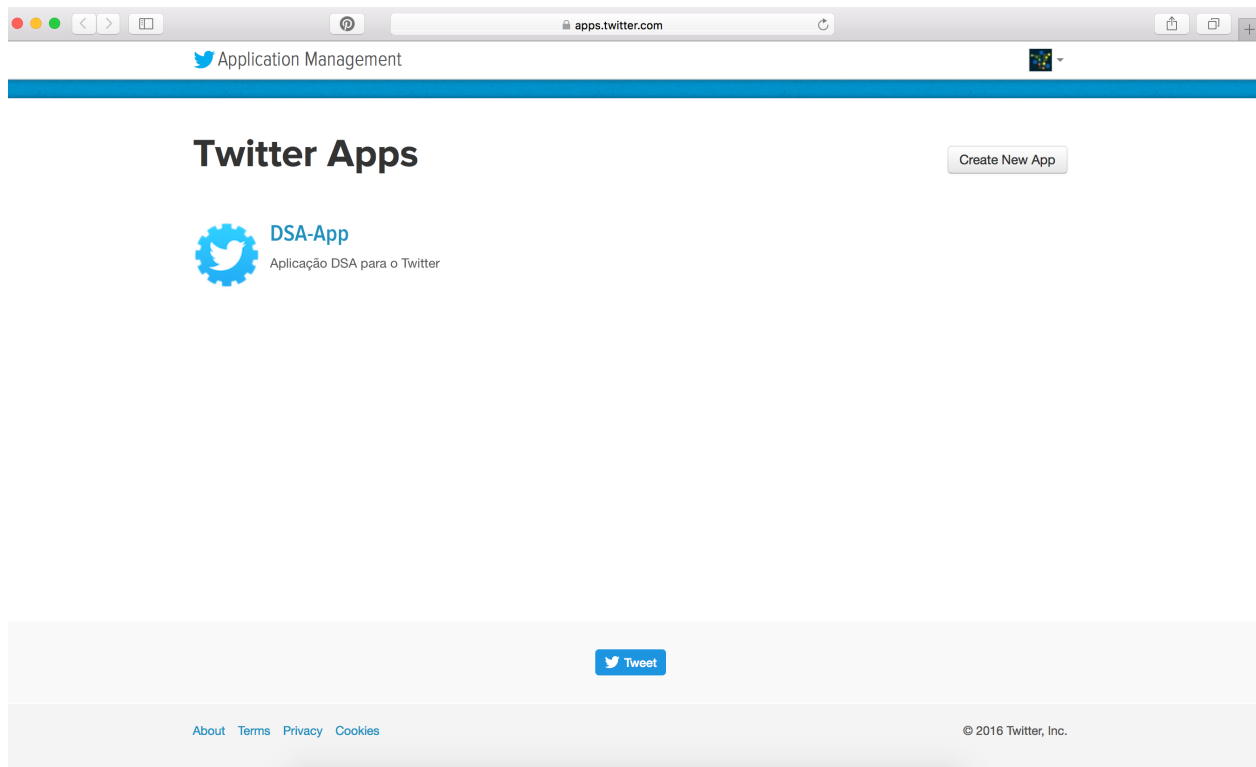
www.datascienceacademy.com.br

Big Data Analytics com R e Microsoft Azure Machine Learning

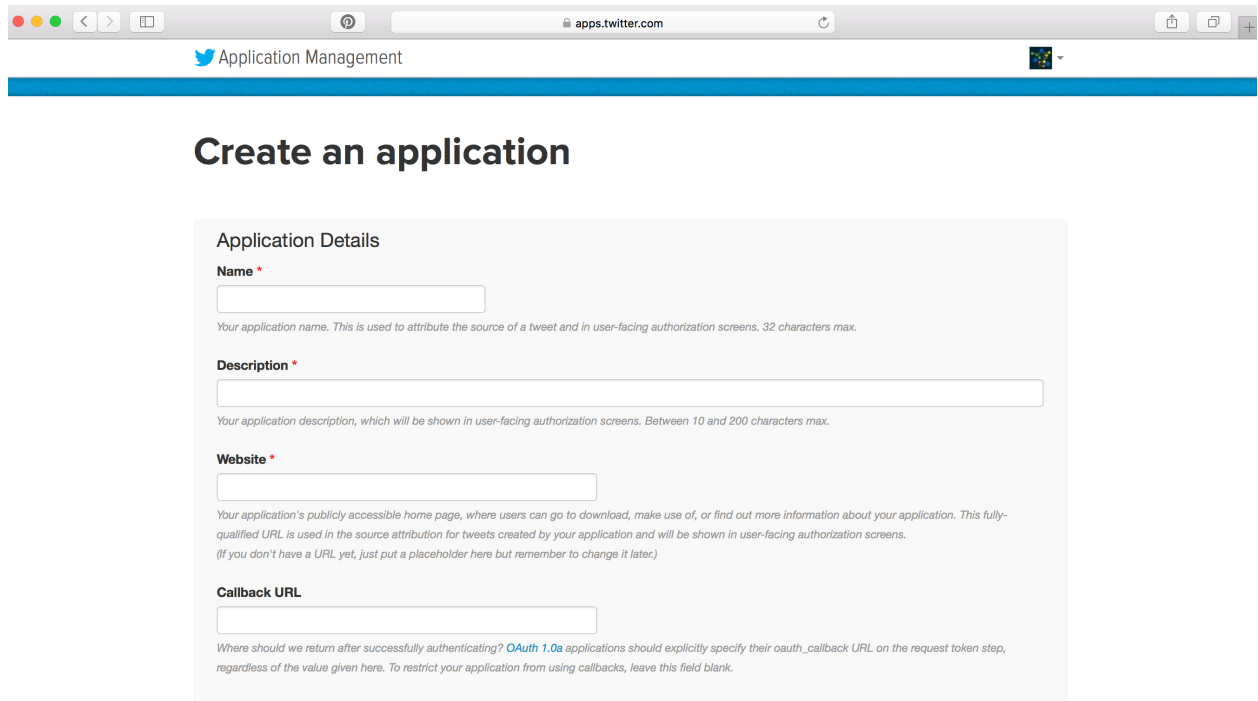
Projeto 1
Análise de Redes Sociais
Criando app no Twitter

1- Acesse o site: <https://apps.twitter.com>

Lembre-se: você precisa antes criar uma conta no Twitter. Para isso, acesse <http://twitter.com>. Sem conta no Twitter, não há como criar uma app para este projeto! Se já possui uma conta pessoal no Twitter, você pode utilizá-la sem qualquer risco.



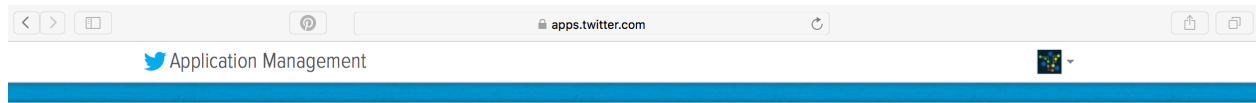
2- Clique no botão “Create New App”.



The screenshot shows a web browser window with the address bar displaying 'apps.twitter.com'. The page title is 'Application Management'. Below the title bar, there is a blue header with the Twitter logo and the text 'Application Management'. The main content area is titled 'Create an application' and contains a form with the following fields:

- Application Details**
 - Name ***: A text input field. Below it, a note states: 'Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.'
 - Description ***: A text input field. Below it, a note states: 'Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.'
 - Website ***: A text input field. Below it, a note states: 'Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified URL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens. (If you don't have a URL yet, just put a placeholder here but remember to change it later.)'
 - Callback URL**: A text input field. Below it, a note states: 'Where should we return after successfully authenticating? OAuth 1.0a applications should explicitly specify their oauth_callback URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.'

3- Preencha com os seus dados.



Create an application

Application Details

Name *

Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.

Description *

Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.

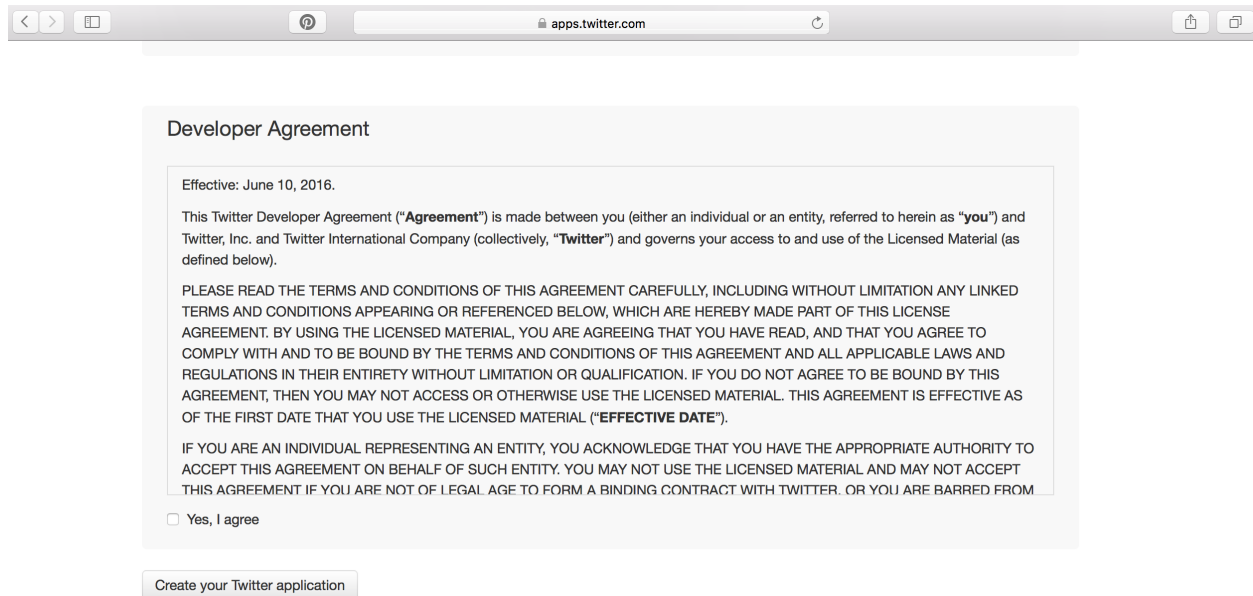
Website *

Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified URL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens.
(If you don't have a URL yet, just put a placeholder here but remember to change it later)

Callback URL

Where should we return after successfully authenticating? [OAuth 1.0a](#) applications should explicitly specify their `oauth_callback` URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.

4- Aceite os termos de uso.



The screenshot shows a web browser window with the address bar displaying "apps.twitter.com". The main content area is titled "Developer Agreement". It contains the following text:

Effective: June 10, 2016.

This Twitter Developer Agreement ("**Agreement**") is made between you (either an individual or an entity, referred to herein as "**you**") and Twitter, Inc. and Twitter International Company (collectively, "**Twitter**") and governs your access to and use of the Licensed Material (as defined below).

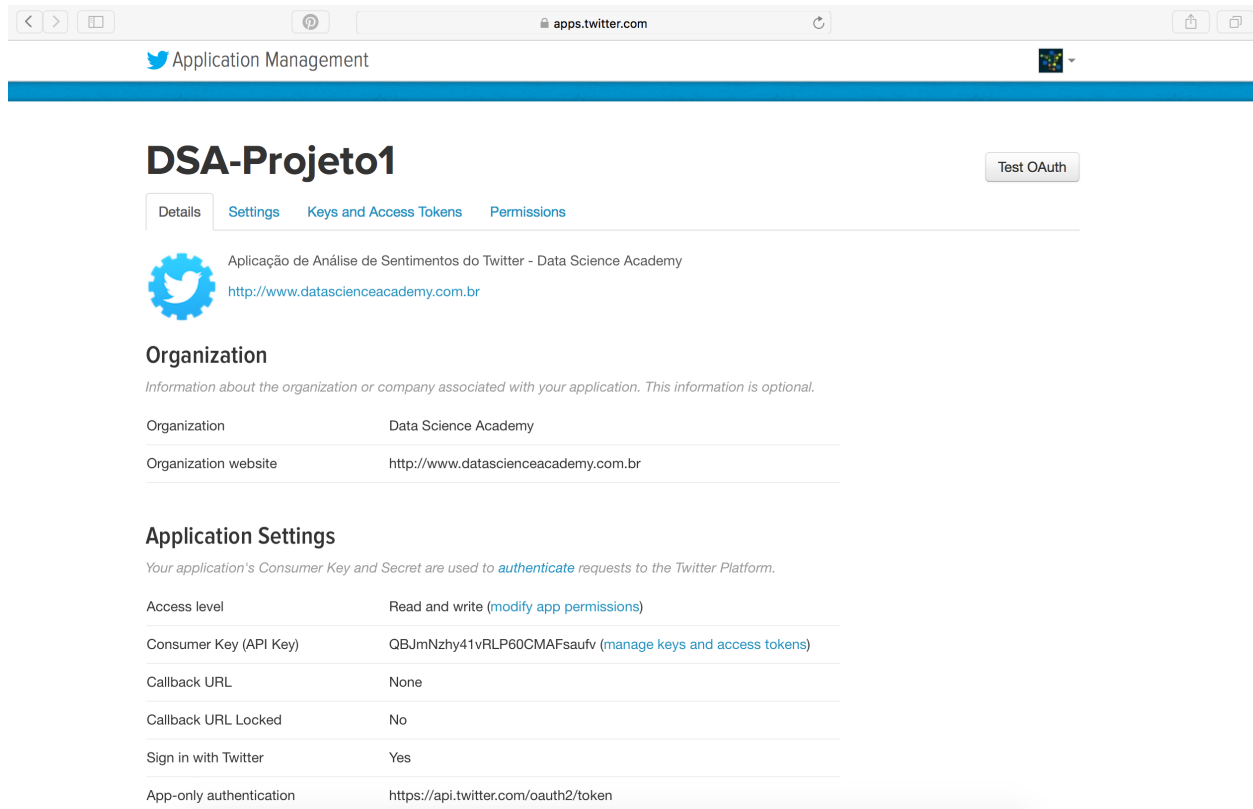
PLEASE READ THE TERMS AND CONDITIONS OF THIS AGREEMENT CAREFULLY, INCLUDING WITHOUT LIMITATION ANY LINKED TERMS AND CONDITIONS APPEARING OR REFERENCED BELOW, WHICH ARE HEREBY MADE PART OF THIS LICENSE AGREEMENT. BY USING THE LICENSED MATERIAL, YOU ARE AGREEING THAT YOU HAVE READ, AND THAT YOU AGREE TO COMPLY WITH AND TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT AND ALL APPLICABLE LAWS AND REGULATIONS IN THEIR ENTIRETY WITHOUT LIMITATION OR QUALIFICATION. IF YOU DO NOT AGREE TO BE BOUND BY THIS AGREEMENT, THEN YOU MAY NOT ACCESS OR OTHERWISE USE THE LICENSED MATERIAL. THIS AGREEMENT IS EFFECTIVE AS OF THE FIRST DATE THAT YOU USE THE LICENSED MATERIAL ("**EFFECTIVE DATE**").

IF YOU ARE AN INDIVIDUAL REPRESENTING AN ENTITY, YOU ACKNOWLEDGE THAT YOU HAVE THE APPROPRIATE AUTHORITY TO ACCEPT THIS AGREEMENT ON BEHALF OF SUCH ENTITY. YOU MAY NOT USE THE LICENSED MATERIAL AND MAY NOT ACCEPT THIS AGREEMENT IF YOU ARE NOT OF LEGAL AGE TO FORM A BINDING CONTRACT WITH TWITTER. OR YOU ARE BARRED FROM

☐ Yes, I agree

[Create your Twitter application](#)

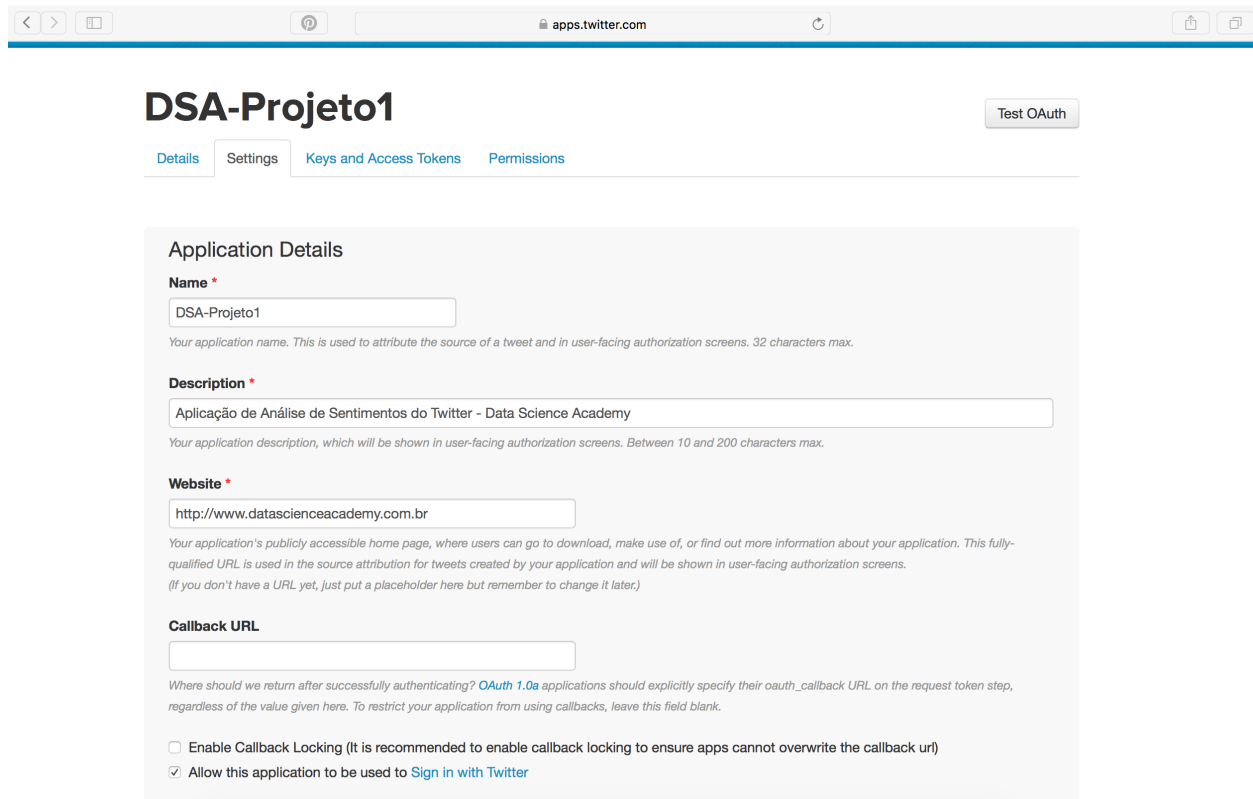
5- Aplicação criada com sucesso.



The screenshot shows the Twitter Application Management interface in a web browser. The browser's address bar displays 'apps.twitter.com'. The page title is 'Application Management'. The application name is 'DSA-Projeto1'. Below the name, there are tabs for 'Details', 'Settings', 'Keys and Access Tokens', and 'Permissions'. The 'Settings' tab is selected. The application description is 'Aplicação de Análise de Sentimentos do Twitter - Data Science Academy' with the URL 'http://www.datascienceacademy.com.br'. The 'Organization' section shows 'Data Science Academy' as the organization and the same URL as the organization website. The 'Application Settings' section includes a note about Consumer Key and Secret, and a table of settings.

Application Settings	
Your application's Consumer Key and Secret are used to authenticate requests to the Twitter Platform.	
Access level	Read and write (modify app permissions)
Consumer Key (API Key)	QBJmNzhy41vRLP60CMAFsauv (manage keys and access tokens)
Callback URL	None
Callback URL Locked	No
Sign in with Twitter	Yes
App-only authentication	https://api.twitter.com/oauth2/token

6- Clique na aba Settings e certifique-se que a caixa “Allow this application to be used to Sign in with Twitter” esteja marcada.



The screenshot shows the Twitter Developer Portal interface. At the top, the browser address bar displays 'apps.twitter.com'. The main header features the application name 'DSA-Projeto1' and a 'Test OAuth' button. Below the header, a navigation bar includes tabs for 'Details', 'Settings' (which is active), 'Keys and Access Tokens', and 'Permissions'. The 'Settings' tab contains the 'Application Details' section with the following fields:

- Name ***: A text input field containing 'DSA-Projeto1'. Below it, a note states: 'Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.'
- Description ***: A text input field containing 'Aplicação de Análise de Sentimentos do Twitter - Data Science Academy'. Below it, a note states: 'Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.'
- Website ***: A text input field containing 'http://www.datascienceacademy.com.br'. Below it, a note states: 'Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified URL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens. (If you don't have a URL yet, just put a placeholder here but remember to change it later.)'
- Callback URL**: An empty text input field. Below it, a note states: 'Where should we return after successfully authenticating? OAuth 1.0a applications should explicitly specify their oauth_callback URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.'

At the bottom of the 'Application Details' section, there are two checkboxes:

- ☐ Enable Callback Locking (It is recommended to enable callback locking to ensure apps cannot overwrite the callback url)
- ☒ Allow this application to be used to [Sign in with Twitter](#)

7- Clique na aba Keys and Access Tokens. Você vai precisar da Consumer Key e da Consumer Secret no seu script R.

Obs: Esta é a app criada pela Data Science Academy. Esta app já foi removida e portanto não há como utilizá-la. Cria sua app e utilize os seus próprios dados.

The screenshot shows the Twitter Developer Portal interface for an application named 'DSA-Projeto1'. The browser address bar shows 'apps.twitter.com'. The page has a blue header with the Twitter logo and 'Application Management'. Below the header, the application name 'DSA-Projeto1' is displayed, along with a 'Test OAuth' button. A navigation bar contains links for 'Details', 'Settings', 'Keys and Access Tokens', and 'Permissions'. The 'Settings' tab is active, showing 'Application Settings'. A warning message states: 'Keep the "Consumer Secret" a secret. This key should never be human-readable in your application.' Below this, a table lists application details:

Consumer Key (API Key)	QBJmNzhy41vRLP60CMAFsaufv
Consumer Secret (API Secret)	8s42HZPMixxHaijGxQJHMMiKkaQBVvkAR52uykWABvdsycNLYh
Access Level	Read and write (modify app permissions)
Owner	dsacademybr
Owner ID	703383646602981377

Below the table, the 'Application Actions' section contains two buttons: 'Regenerate Consumer Key and Secret' and 'Change App Permissions'.

8- Ainda na aba Keys and Access Tokens, clique no botão “Create my access token” para autorizar sua aplicação.

The screenshot shows the 'Application Settings' page for an application on the Twitter Developer Portal. The browser address bar shows 'apps.twitter.com'. The page title is 'Application Settings' with a sub-note: 'Keep the "Consumer Secret" a secret. This key should never be human-readable in your application.' Below this is a table with application details:

Consumer Key (API Key)	QBJmNzhy41vRlP60CMAFsauFv
Consumer Secret (API Secret)	8s42HZPMixxHajjGxQJHMMiKkaQBvVvAR52uykWABvdsycNLYh
Access Level	Read and write (modify app permissions)
Owner	dsacademybr
Owner ID	703383646602981377

Below the table is an 'Application Actions' section with two buttons: 'Regenerate Consumer Key and Secret' and 'Change App Permissions'.

Further down is the 'Your Access Token' section with a sub-note: 'You haven't authorized this application for your own account yet.' Another note states: 'By creating your access token here, you will have everything you need to make API calls right away. The access token generated will be assigned your application's current permission level.'

At the bottom is a 'Token Actions' section with a single button: 'Create my access token'.

Você vai precisar do Access Token e do Access Token Secret

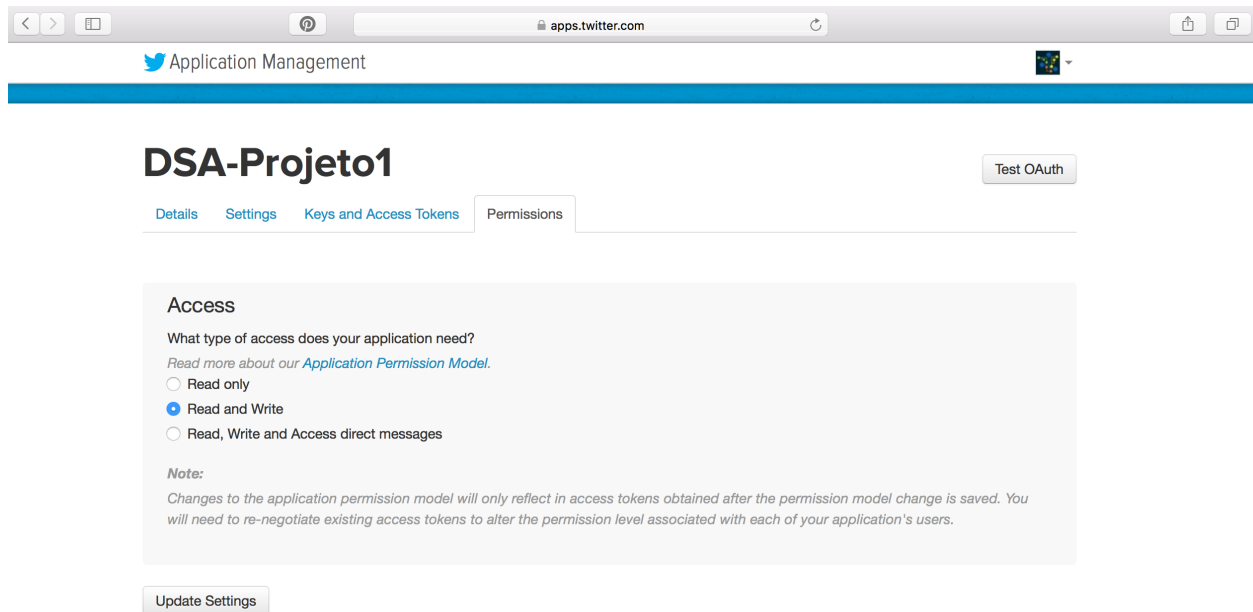
The screenshot shows the 'Your Access Token' page. It starts with an 'Application Actions' section containing 'Regenerate Consumer Key and Secret' and 'Change App Permissions' buttons.

The 'Your Access Token' section has a sub-note: 'This access token can be used to make API requests on your own account's behalf. Do not share your access token secret with anyone.' Below this is a table with the generated token details:

Access Token	703383646602981377-RXk1xxKHf57HHBvg7URRLEAIQ89KBmE
Access Token Secret	vTDR1hwYBCBGv95aGTRMpxloC8K0jcy93qvFUnKlh94Do
Access Level	Read and write
Owner	dsacademybr
Owner ID	703383646602981377

At the bottom is a 'Token Actions' section with two buttons: 'Regenerate My Access Token and Token Secret' and 'Revoke Token Access'.

9- Finalmente clique na aba “Permissions” e certifique-se que sua aplicação tem privilégio de leitura e escrita.



The screenshot shows a web browser window with the address bar displaying 'apps.twitter.com'. The page title is 'Application Management'. The main heading is 'DSA-Projeto1'. There are four tabs: 'Details', 'Settings', 'Keys and Access Tokens', and 'Permissions', with 'Permissions' being the active tab. A 'Test OAuth' button is visible in the top right. The 'Access' section asks 'What type of access does your application need?' and provides three radio button options: 'Read only', 'Read and Write' (which is selected), and 'Read, Write and Access direct messages'. A note below states: 'Changes to the application permission model will only reflect in access tokens obtained after the permission model change is saved. You will need to re-negotiate existing access tokens to alter the permission level associated with each of your application's users.' An 'Update Settings' button is at the bottom.

Parabéns. Sua aplicação no Twitter está pronta! Vamos agora fazer análise de sentimentos!!