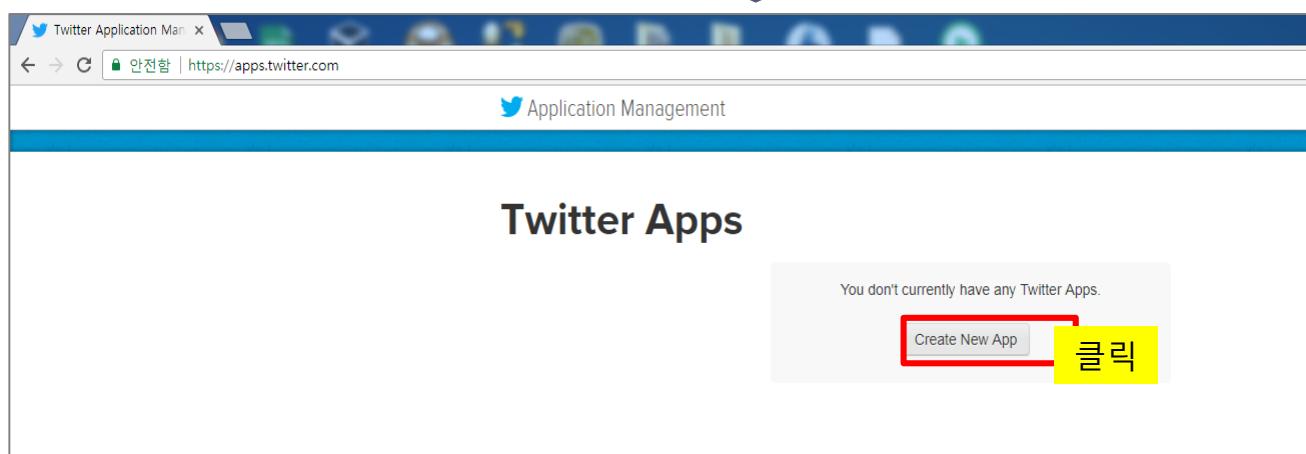
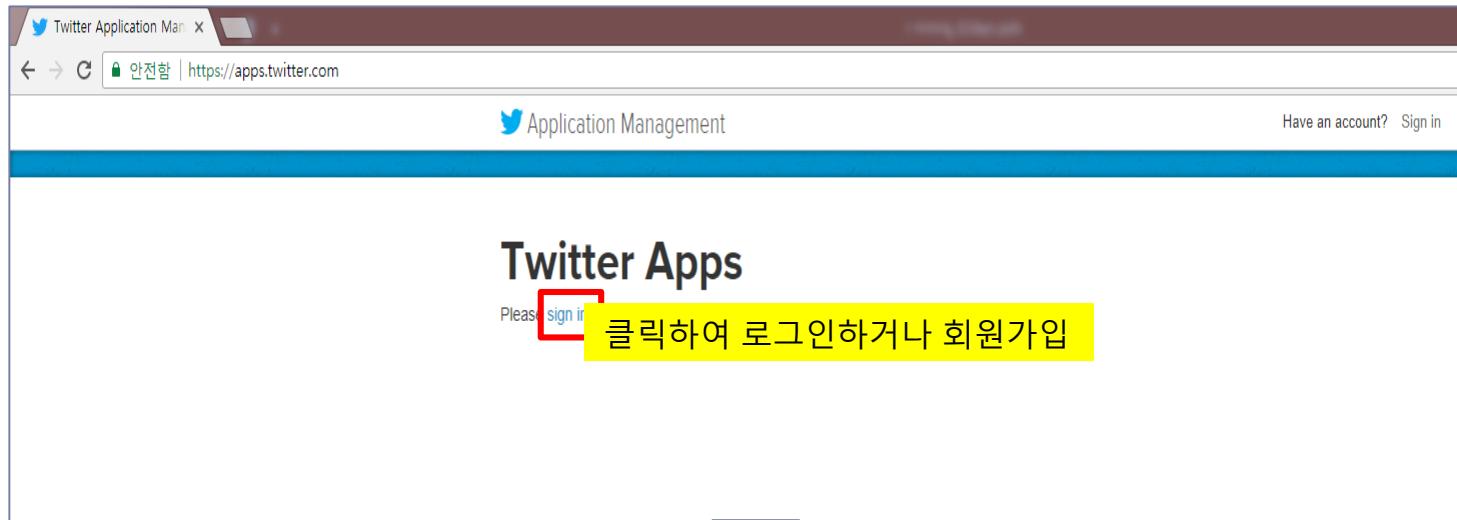


5. 데이터 수집-트위터 연결하기

데이터 수집-트위터 앱 가입하고 연결하는 방법 설명

I. 트위터 app 생성하기

I. 트위터 개발자 앱관리 페이지 <https://apps.twitter.com>에 접속하여 로그인 혹은 회원가입을 해요.





2. 그림처럼 앱 등록화면이 나타나면, 그림처럼 name, description, website 항목에 차례대로 입력해요.

The screenshot shows the 'Create an application' page on the Twitter developer portal. A red box highlights the 'Application Details' section, which includes fields for Name, Description, and Website. A yellow box highlights the 'Callback URL' field. A yellow callout box provides instructions for the 'Developer Agreement' checkbox and the 'Create your Twitter app!' button.

Application Details

Name * 트위터 앱의 이름을 지정
my_app
Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.

Description * 앱에 대한 간단한 설명기술
analysis_for_pro
Your application description, which will be shown in user-facing authorization screens. Between 1 and 100 characters.

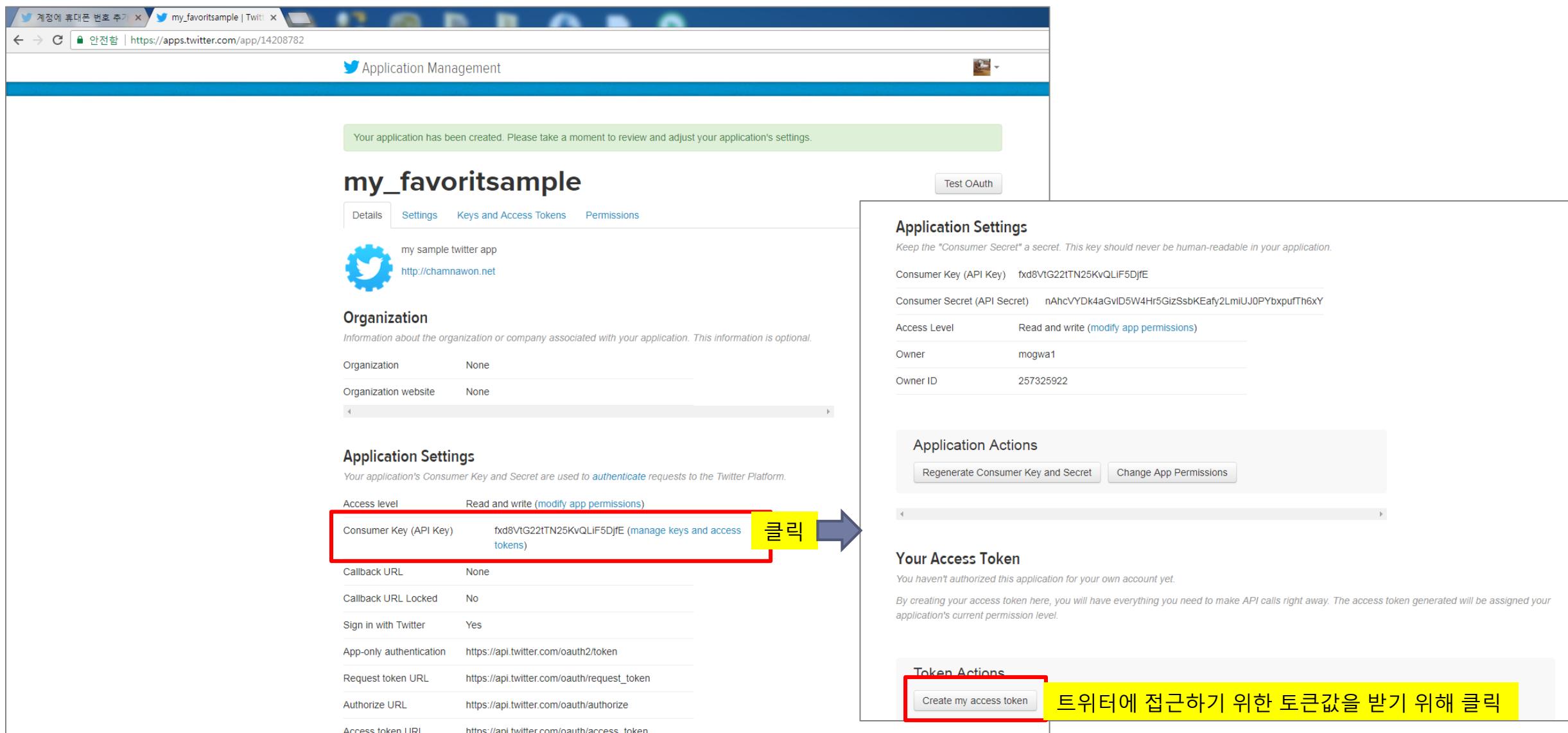
Website * 개발정보를 갖는 웹 사이트 (url 형식에 알맞게 이름을 입력해요)
http://chamnana.22.net
Your application's publicly accessible home page, where users can go to do what your application does. If you don't have a URL yet, just put a placeholder here but remember to change it later.

Callback URL
Where should we return after successfully authenticating? Here. To restrict your application from using callbacks, leave this empty.

Developer Agreement
 Yes, I have read and agree to the Twitter Developer Agreement.
체크

Create your Twitter app! 클릭

3. 이렇게 신규앱이 등록된 것을 확인할 수 있어요. 화면에서 보면, 앱의 컨슈머 키 즉, api키가 발급된 걸 알 수 있어요. “manage keys and access tokens” 부분을 클릭하여 키 관리화면으로 이동합니다.



Application Management

Your application has been created. Please take a moment to review and adjust your application's settings.

my_favoritsample

Details Settings Keys and Access Tokens Permissions

my sample twitter app
http://chamnawon.net

Organization

Information about the organization or company associated with your application. This information is optional.

Organization: None

Organization website: None

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): fx8VtG22tTN25KvQLiF5DjFE (manage keys and access tokens) 클릭

Callback URL: None

Callback URL Locked: No

Sign in with Twitter: Yes

App-only authentication: https://api.twitter.com/oauth2/token

Request token URL: https://api.twitter.com/oauth/request_token

Authorize URL: https://api.twitter.com/oauth/authorize

Access token URL: https://api.twitter.com/oauth/access_token

Application Settings

Keep the "Consumer Secret" a secret. This key should never be human-readable in your application.

Consumer Key (API Key): fx8VtG22tTN25KvQLiF5DjFE

Consumer Secret (API Secret): nAhcVYDk4aGvID5W4Hr5GizSsbKEafy2LmiUJ0PYbxpufTh6xY

Access Level: Read and write (modify app permissions)

Owner: mogwa1

Owner ID: 257325922

Application Actions

Regenerate Consumer Key and Secret Change App Permissions

Your Access Token

You haven't authorized this application for your own account yet.

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.

Token Actions

Create my access token 트위터에 접근하기 위한 토큰값을 받기 위해 클릭

4. 그림처럼 access token과 secret 을 발급받게 돼요. 여기까지 설정작업을 마무리 해요.

The screenshot shows the 'Your Access Token' section of the Twitter developer portal. It displays the following information:

Field	Value
Access Token	257325922-KAH1GdOl2Z4jwDRGDlkgvO24eJN3MwymrZ3gYoJH
Access Token Secret	P8ap67uUllyXc45A10PwSRhdzcaMpbAxBNDsT8ujBA7e4
Access Level	Read and write
Owner	mogwa1
Owner ID	257325922

A yellow callout box points to the 'Access Token Secret' field with the text '이렇게 인증번호를 할당받아요' (This is how you get the authentication number).

At the bottom, there are 'Token Actions' buttons for 'Regenerate My Access Token and Token Secret' and 'Revoke Token Access'.

2. 트위터 app과 R 연결

트위터 크롤링을 위한 인증작업을 그림과 같은 순서로 코딩해보아요.

```
> install.packages("twitteR") twitter-트위터 API에 접근할 수 있게끔해요.  
--- 현재 세션에서 사용할 CRAN 미러를 선택해 주세요 ---  
URL 'http://cran.nexr.com/bin/windows/contrib/3.4/twitteR_1.1.9.zip'을 시도$  
Content type 'application/zip' length 453005 bytes (442 KB)  
downloaded 442 KB
```

패키지 'twitteR'를 성공적으로 압축해제하였고 MD5 sums 이 확인되었습니다

다운로드된 바이너리 패키지들은 다음의 위치에 있습니다

```
C:\Users\Administrator\AppData\Local\Temp\Rtmp08g2Ju\downloaded_packages
```

```
> library(twitteR)
```

```
> Sys.setenv(JAVA_HOME="c:\\program files\\java\\jdk1.8.0_141") 패키지 구동시 Rjava 관련 오류가 발생할 때 이와 같이 jdk설치경로를 기술해줍니다.
```

```
> install.packages("KoNLP")
```

경고: 패키지 'KoNLP'가 사용중이므로 설치되지 않을 것입니다

```
> library(KoNLP)
```

```
> api_key <- "fxd8VtG22tTN25KvQLiF5DjfE"
```

```
> api_secret <- "nAhcVYDk4aGv1D5W4Hr5GizSsbKEafy2LmiUJ0PYbxpuftH6xY"
```

```
> access_token <- "257325922-KAH1Gd0i2Z4jwDRGDIgkv024eJN3MwyrmrZ3gYoJH"
```

```
> access_token_secret <- "P8ap67uUllyXc45A10PwSRhdzcaMpbAxBNDsT8ujBA7e4"
```

```
> setup_twitter_oauth(api_key,api_secret,access_token,access_token_secret)
```

```
[1] "Using direct authentication"
```

api에 접근하기 위한 api 키/시크릿키 , 인증을 위한
access_token, access_token_secret 값을 입력해요.

트위터에 인증요청

이렇게 뜨면 R에서 트윗내용을 읽어올 수 있어요^^



```
> searchTwitter("android") → 인증이 되어있다면 트윗 내용을 읽어올 수 있겠죠?  
[[1]]  
[1] "sn_248: モイ ! Androidからキャス配信  
[[2]]  
[1] "ErwanLC: @Anteus20 @Numerama @CorentinJL mais c'est bien le cas (en tous cas sous android) : https:$  
[[3]]  
[1] "KHFC_FanApp: @JJHoitema Thanks for following us, join the discussion in the app! iOS at https://t.c$  
[[4]]  
[1] "PTFCApp: @vblair25 Thanks for following us on Twitter. Why not download the app? iOS at https://t.c$  
[[5]]  
[1] "12148toukl: モイ ! Androidからキャス配信中 - / オナ中電話したい方? https://t.co/QhDH3X85qT"  
[[6]]  
[1] "YourAnonRevolt: RT @josephfcox: Spyfones, the company selling Android and iOS devices that come pre$  
[[7]]  
[1] "pranalipathaks1: @Trevoreon Hey, I can help you with.I have experience in developing an app for and$
```