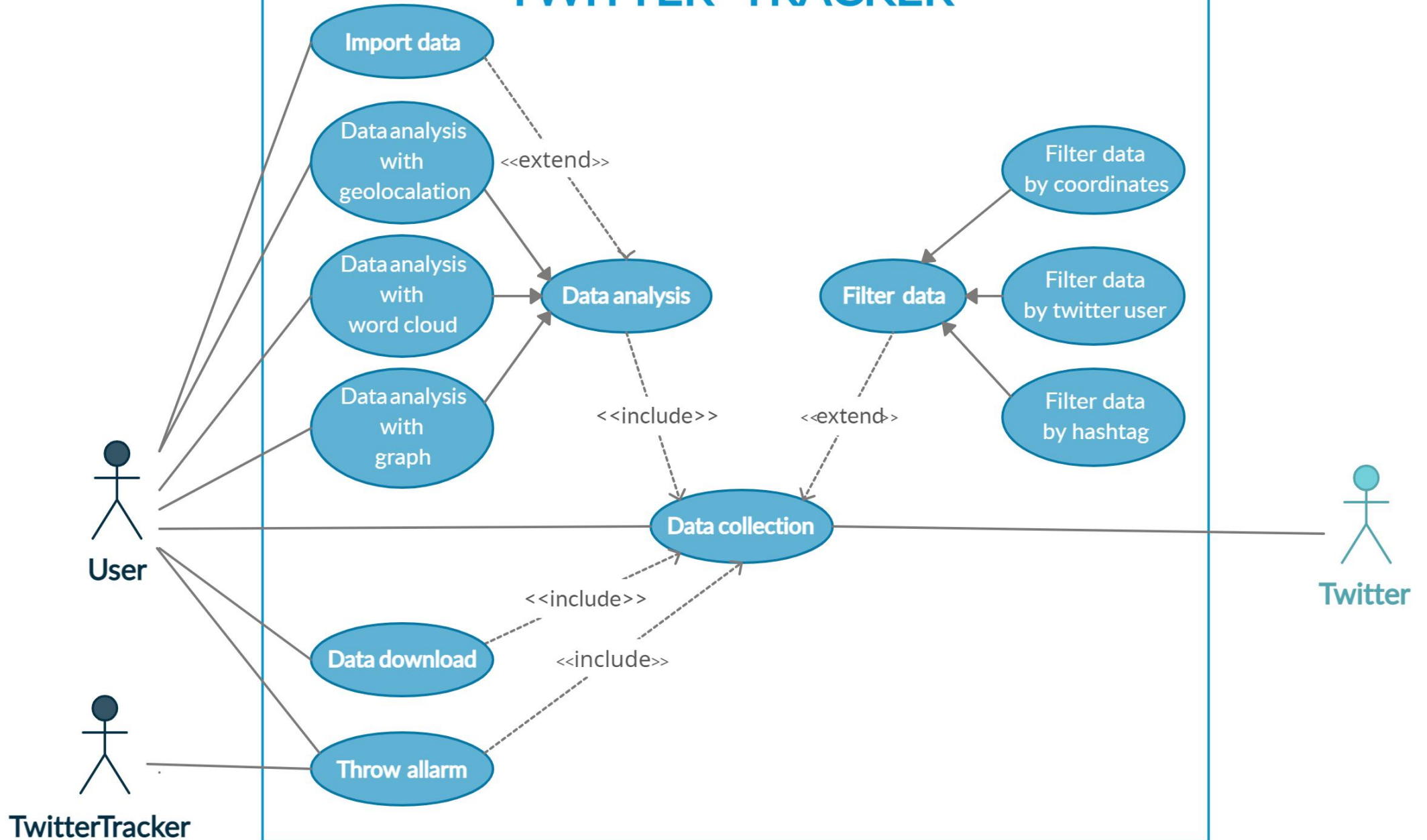


TWITTER TRACKER



USE CASE: TWTR_TRCKR01		DATA COLLECTION	Date: 17/11/2020
			Version: 0.00.001
Description:	It allows the user to collect data from Twitter, such as tweets or photos and then view, analyze or download them		
Priority:	High		
Duration:	Variable (depends on the need of the user)		
Primary actor:	User		
	His interest is to get data to work on them		
Secondary actors:	Twitter		
	His interest is to provide data to those who request them through public API		
Precondition:	Working Internet connection and both the application and Twitter should not be under maintenance therefore not guaranteeing its services		
Failure guarantees:	No collection is made and so no data is obtained. The system displays an appropriate error message		
Success guarantees	The request to Twitter is confirmed and the requested data from the user are collected correctly		
Start:	The button of start collection data is pressed		
Main scenario			
	USER		SYSTEM
1.	Starts the data collection by pressing the start button		
2.			It checks if the filter inputs are in a correct form
3.			It opens a communication channel with Twitter through its API
4.			It sends to Twitter the filter inputs
5.			It starts collecting all information received from Twitter
6.			It listens to a signal from the user indicating to end the collection data
7.	He decides to stop data collection		
8.			It closes the communication channel opened with Twitter
9.			It makes the collected data available for analysis or download
Error scenario			
The filter inputs are in a bad form			
	USER		SYSTEM
3.1			It sends relative error message
3.2			It doesn't start the collection
-	END		
Alternative scenario			
User doesn't insert filter values			
	USER		SYSTEM
3.1			Doesn't check filter inputs

USE CASE: TWTR_TRCKR02		DATA ANALYSIS	Date: 17/11/2020
			Version: 0.00.001
Description:	It allows the user to display data just collected with three different types of visualization: displaying tweets and photos in a map (geolocalization), displaying a word cloud of one hashtag or displaying some infromation through different graphs		
Priority:	High		
Duration:	Seconds		
Primary actor:	User		
	His interest is to view the data that he had just collected and that he wants to analyze in some form		
Secondary actors:	(Empty)		
	(Empty)		
Precondition:	User has already started and finished the data collection phase and he did not receive an empty collection, so has some material to work on		
Failure guarantees:	No data is displayed. The system displays an appropriate error message		
Success guarantees	All collected data are displayed in the various forms available		
Start:	When button of data collection stop is pressed, the collected data are automatically displayed in various form of visulazziation		
Main scenario			
	USER		SYSTEM
.	(He has just pressed the button of data collection stop)		
1.			For each form of visualization, it selects what infromation type (e.g. : photo, twitter...) to display
2.			It displays the collected data
Error scenario			
No data are collected during the collection phase			
	USER		SYSTEM
1.1			It sends an infromation message with the relative infromation
1.2			Doesn't display any data
-	END		

USE CASE: TWTR_TRCKR03		DATA DOWNLOAD	Date: 18/11/2020
			Version: 0.00.001
Description:	It allows the user to download the collected data		
Priority:	Medium		
Duration:	Seconds		
Primary actor:	User		
	His interest is to download the data that he had just collected and that he wants to save them, so he can see them again in the future		
Secondary actors:	(Empty)		
	(Empty)		
Precondition:	User has already started and finished the data collection phase and he did not receive an empty collection, so has some material to work on		
Failure guarantees:	No data is downloaded. The system displays an appropriate error message		
Success guarantees	All collected data are downloaded		
Start:	The data download button is pressed		
Main scenario			
	USER		SYSTEM
1.	He presses the download button		
2.			It download the collected data to the user personal computer
Error scenario			
Did not perform the data collection phase previously or did not collect any data			
	USER		SYSTEM
2.1			It sends an information message with the relative information
2.2			Doesn't download any data
-	END		

USE CASE: TWTRR_TRCKR04		Filter Data	Date: 18/11/2020
			Version: 0.00.001
Description:		It allows the user to insert three types of filter with which it intends to refine its own research. The three types of filter are: a loction filter by an hashtag or by four coordinates, a word filter by an hastag (that doesn't rappresent a location, but an event, an animal...) and a user filter by twitter username	
Priority:		Low	
Duration:		Seconds	
Primary actor:		User	
		His interest is to filter the data that he wants collect so that he doesn't receive the data he is not interested in	
Secondary actors:		(Empty)	
		(Empty)	
Precondition:		Focus on filter section	
Failure guarantees:		No data has been entered, the collection starts without filter	
Success guarantees		The filter inputs are inserted correctly and the collected data contain infromation about them	
Start:		When the filter inputs are compiled	
Main scenario			
	USER		SYSTEM
1.	He inserts filter inputs about the information that he wants		
2.			It saves the filter input values, ready to send them to Twitter

USE CASE:	IMPORT DATA	Date: 15/12/2020
TWTR_TRCKR06		Version: 0.00.001
Description:	It allows the user to insert a own file (with certain characteristics) tha contains a list of twitter	
Priority:	Medium	
Duration:	Seconds	
Primary actor:	User	
	His interest is to is to analyse data on collections carried out previously	
Secondary actors:	(Empty)	
	(Empty)	
Precondition:	The user must be in possession of this file, so previously must have made and saved a collection or some other user has passed it to him	
Failure guarantees:	No file is imported, the application also proceeds without the import of the file	
Success guarantees	The file is properly imported and its content is displayed in the various forms of analysis of the application	
Start:	When i file (on the user pc) il selected and consequently imported	
Main scenario		
	USER	SYSTEM
1.	Push the import button	
2.	Select the correct file that he wants to import	
3.		It loads all the data contained in the file
4.		It shows the results in the various forms of analysis of the application

USE CASE:		TRHOW ERROR	Date: 15/12/2020
TWTR_TRCKR07			Version: 0.00.001
Description:		It allows the user to send a notice to himself or to another person when they reach a certain number of results (both the number and the recipient of the notice are customizable by the user)	
Priority:		Low	
Duration:		Variable (depends on the need of the user)	
Primary actor:		User	
		Its interest is to be sighted when certain events occur	
Secondary actors:		Twitter Tracker (the system)	
		(Empty)	
Precondition:		The user must have the number of results to collect before sending the alarm and must have a valid email address	
Failure guarantees:		No parameter for this function is entered, the application also proceeds without the import of the file	
Success guarantees		An alarm is sent to the email address indicated	
Start:		Starts with entering data for this function and ends when the alarm is sent	
Main scenario			
	USER		SYSTEM
1.	Insert the mail adress and the number of tweet to collect before to throw the allarm		
2.	He starts the data collection		
3.			It starts to collect data, it updates a counter every time it receives a tweet
4.			When the counter reaches the same value as the input entered by the user, it sends an email to the address entered by the user