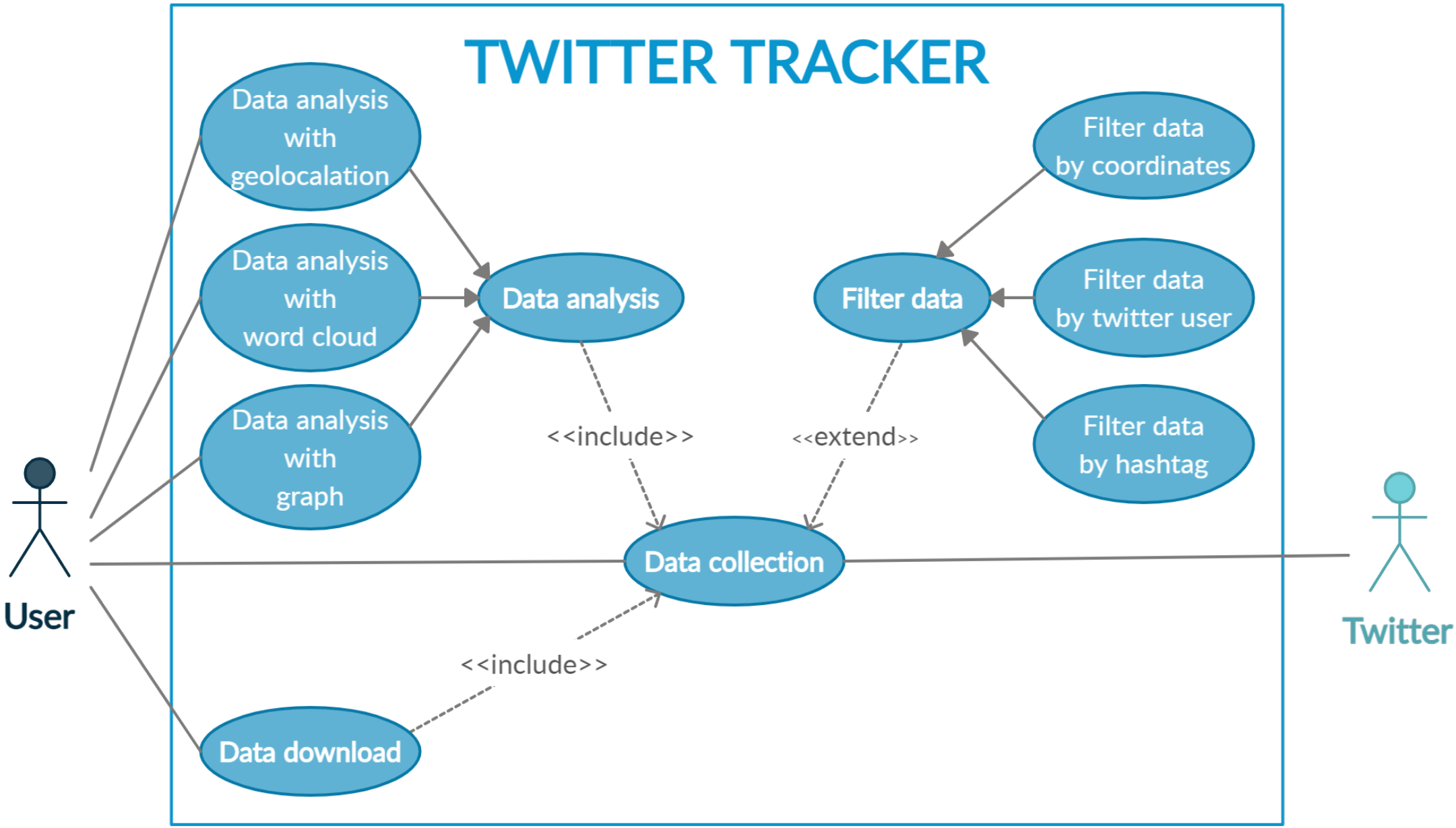
TWITTER TRACKER
Data analysis with geolocalation
Data analysis with word cloud
Data analysis with graph
Data analysis
Filter data
Filter data by coordinates
Filter data by twitter user
Filter data by hashtag
<<include>>
<<extend>>
Data collection
<<include>>
Data download
User
Twitter

USE CASE: TWTTR_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 chanel 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: TWTTR_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: TWTTR_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 ad 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 infromation message with the relative infromation
2.2		Doesn't download any data
-	END	

USE CASE: TWTTR_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