Use Cases

for

<Whoogle>

<version 2>

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Group 5

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Use Case List

ID	Primary Actor	Use Case Title
1	User	Search for another user
2	User	Choose a user from the results page
3	User	View profile and move to follower map
4	User	Follower-Follow back visualization
5	User	View personal facebook analysis

Use Case Template

Use Case ID:	3		
Use Case Name:	View profile and move to relationship or interest based maps		
Created By:	Everyone	Last Updated By:	John
Date Created:	10/2/16	Date Last Updated:	12/10/16

Actors:	End user
Description:	The user will be shown a detailed description of the profile selected, including general profile information as well as hobbies and interests.
Trigger:	Selecting an option from the search results page
Preconditions:	User has selected a profile.
Postconditions:	Program generated profile which displays information on selected individual and provides links to the relationship and interest maps

Normal Flow:	3.1 User views the profile page of the selected person which summarizes the selected individual's top social media discussion topics, analysis on the individual's grammar determined by past posts, a photo of the individual if available, several recent posts by the individual. 3.2 User can choose to proceed to a relationship map showing connections between the social media friends of the selected individual 3.3 User can choose to proceed to a map of BU users clustered by one of the top interests based on the selected individual's topics of discussion from social media
Alternative Flows:	User can also go back to the results page if they found the wrong person.
Exceptions:	Website API's may be down -> We will inform the user of the problem. Person selected may have a private profile, which cannot be analyzed using the app
Includes:	Display user follower visualization
Priority:	High
Frequency of Use:	This use case will be used every time a user clicks on a person that shows up in the list on the previous page, and thus should theoretically be used almost every time a person reaches the page.
Business Rules:	Should not violate the rules accompanied by the usage of the APIs to be consumed.
Special Requirements:	The additional requirements to ensure proper functionality of this use case entails making sure that the number of API calls aren't too high. The number of API calls made may depend on how many attributes of a person we want to analyse and how many APIs we want to use in order to determine these attributes vs how many attributes we want to determine using our own backend. Alternatively, if we decide to store all the data in our database, the information displayed will depend on if we can store an adequate amount of data in the database to provide enough information, and if we'll be able to access and process the data within a sufficient amount of time.
Assumptions:	This usage of this use case depends on the assumption that the individual that the user is trying to find has a Twitter account which is not private.

Notes and Issues:	Overall, this is where we expect the user to benefit the most from the main functionality of our app, and a lot of work should be put into making the user experience as clean as possible. One possible issue that could arise is that the user can not figure out that they can click the interests to gain more functionality, so it should be made clear that this is possible. The same can be said for the back button and the relationship map.

Revision History

Name	Date	Reason For Changes	Version
John Tokarowski	12/10	Updated to include new exceptions found on private twitter users	2

Use Case ID:	1
Use Case Name:	Search for a user or interest

Created By:	John	Last Updated By:	John
Date Created:	10/30/16	Date Last Updated:	12/10/16

Actors:	End user
Description:	In this use case, the user searches for a person or a hobby that they are interested in. Once the user or hobby is searched, the user is taken to a results page displaying options based on the search.
Trigger:	Opening the application or opting to return to search another user from the results end page
Preconditions:	User arrives at website
Postconditions:	List of results from the search are displayed and provide the user with options to choose from
Normal Flow:	1.1 User opens the application and sees the search screen 1.2 User enters the name of the user they want to find into the search bar 1.3 User presses submit and is taken to the results page
Alternative Flows:	User can arrive at the search screen from the results page, the profile page, or either of the later screens by clicking the "Start another Search" button
Exceptions:	Server is unavailable or APIs unavailable
Includes:	Results page

Priority:	High
Frequency of Use:	This use case will be used every time a user arrives at the application
Business Rules:	Should not violate the rules accompanied by the usage of the APIs to be consumed.
Special Requirements:	N/A
Assumptions:	This usage of this use case depends on the assumption that the individual that the user is trying to find has a Twitter account.
Notes and Issues:	This page should be very simple and direct the user to enter the required information then move thme to the next screen. This might be a good place to put a quick overview of the app's functionality.

Name	Date	Reason For Changes	Version
John Tokarowski	12/10	Updated to remove facebook search functionality which was not possible with the APIs	2

Use Case ID:	2		
Use Case Name:	Choose a user or interest from the results page		
Created By:	John	Last Updated By:	John
Date Created:	10/30/16	Date Last Updated:	12/10/16

Actors:	End user
Description:	In this use case, the user selects a user/hobby from the results page based on the keywords that they searched. Once they select the user hobby, they are taken to either the user profile or an interest-based map showing BU students interested in that hobby.
Trigger:	Submitting a username into the search bar
Preconditions:	User has searched for a user
Postconditions:	Program generated profile which displays information on selected individual

Normal Flow:	2.1 User views the results page to determine which of the profiles found is the person is who they are searching for 2.2 User can click on a username to be taken to their detailed profile
Alternative Flows:	User does not find the person searched for and selects the "start another search" button to try again
Exceptions:	Website API's may be down -> We will inform the user of the problem.
Includes:	User profile, Interest Map
Priority:	High
Frequency of Use:	This use case will be used every time a user submits a search
Business Rules:	Should not violate the rules accompanied by the usage of the APIs to be consumed.
Special Requirements:	The additional requirements to ensure proper functionality of this use case entails making sure that the number of API calls aren't too high. In this case, the search function should only send the text to search for and receive all the results in one response.
Assumptions:	This usage of this use case depends on the assumption that the individual that the user is trying to find has a Twitter account.
Notes and Issues:	This case provides a link between the initial search and any other additional functionality, it has to be easy to navigate/

Name	Date	Reason For Changes	Version
John Tokarowski	12/10	Updated to remove facebook search which was not possible given API limitations	2

Use Case ID:	4		
Use Case Name:	Follower Map		
Created By:	John	Last Updated By:	John
Date Created:	10/30/16	Date Last Updated:	12/10/16

Actors:	End user

Description:	When a user clicks on the follower map button, a visualization of their followers who follows them back
Trigger:	Selecting the follower map option from a user profile
Preconditions:	User has viewed a detailed profile and clicked on a specific interest
Postconditions:	Click on a specific node and get the profile of that person
Normal Flow:	4.1 User can see the visualized relationships between followers and accounts followed 4.2 User can go back to the detailed profile page
Alternative Flows:	User chooses to start a new search from the beginning
Exceptions:	Website API's may be down -> We will inform the user of the problem, user might have more followers than the map is able to display
Includes:	Search
Priority:	Medium / High
Frequency of Use:	This use case will only come into play if the user wants to visualize the connections between BU students related to a selected interest
Business Rules:	Should not violate the rules accompanied by the usage of the APIs to be consumed.
Special Requirements:	N/A
Assumptions:	This usage of this use case assumes the API was able to find the users follower list and the account was public so information could be retrieved
Notes and Issues:	This will be the most complex portion of the application, and may get less use than the user profile segment.

Name	Date	Reason For Changes	Version
John Tokarowski	12/10	Updated map to current version of follower map	2

Use Case ID:	5

Use Case Name:	Run analysis on facebook profile		
Created By:	John	Last Updated By:	John
Date Created:	10/30/16	Date Last Updated:	10/30/16

Actors:	End user
Description:	The facebook analysis will consume data from the facebook API and run sentiment analysis on posts, as well as displaying basic profile info
Trigger:	User selects the facebook analysis button from the search page
Preconditions:	User is logged into facebook
Postconditions:	User redirects back to the search page
Normal Flow:	5.1 User views the facebook profile breakdown including sentiment analysis and basic info 5.2 user returns to search page
Alternative Flows:	N/A
Exceptions:	Website API's may be down -> We will inform the user of the problem, user may not be logged into facebook in which case an exception is thrown
Includes:	Facebook profile
Priority:	Medium
Frequency of Use:	This segment of the app can only be used if the user is logged in and only provides info on the one user, we expect this to be used the least
Business Rules:	Should not violate the rules accompanied by the usage of the APIs to be consumed.
Special Requirements:	Avoid sending excessive API calls to improve performance of application
Assumptions:	Assumes the user is a BU student and the application can successfully retrieve the connections of that user and all of the user's friends
Notes and Issues:	N/A

Name	Date	Reason For Changes	Version

John Tokarowski	12/10	Updated to reflect API limitations for facebook	