

Use Case Specification Document

Sekuri-Talk Website Development project

Team Members

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1. Overall Description

[Instructions: In the section, provide a brief description of the services that the Sekuri-Talk website would provide once online]

Sekuri-Talk will gather and display information about all things cyber-security. It can be used by Hobbyists, Journalists, Influencers, and many more to collect data to use in their own beneficial way. Sekuri-Talk users will be able to search hashtags, accounts, and even images collected and curated from the social media platform Twitter.

2. Users

[Instructions: In table given below, identify the users/actors and provide a brief description about each identified user and their intended use of website (i.e., what does this user do on a day-to-day basis in his/her job or home and what goals will the Sekuri-Talk website help each user achieve?)]

User	Description
Hobbyist	This user will use this website to search, browse, and view the different posts and potentially the analytics for trends (basic functionality)
Journalist	This user will use this website to show data to the public or to use it as a resource as they want to write a blog on the internet
Influencer	This user will use this website to view analytics and trends on posts, both their own and the broader public
Cyber Security Researcher	This user will use this website to research about the needs and what more they can do to increase the security in cyber world
Professor	This user will use this website to view popular topics to educate themselves and their students
IT Company	This user will use this website to be aware of what is going on in the cybersecurity world and new threats which will help them to make more security in advance

3. Use Case Specifications

Each use case description should be provided under its own sub-section. Also, note that each use case should have a name (a verb phrase) and unique identifier (e.g., UC1, UC2, and so on).

3.1. Use Case Name and Unique Identifier/ID [Author Name: Yash Thakor UC1]

Use Case Name:	Login
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Description:	User can login by entering their account credentials
Primary Actor(s):	User
Trigger:	User can access all functions
Precondition(s):	User needs to have a registered account User needs to be connected to internet
Postcondition(s):	User is on the dashboard page
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User visits Sekuri-Talk website and indicates that they want to login to profile 2. System displays login page 3. User enters details (username and password) and presses login button 4. System verifies details (account exists, username and password match correctly) 5. User is successfully logged in
Alternative Courses:	<p>3a1. User does not enter details</p> <ol style="list-style-type: none"> 1. User presses login button 2. System will check for input and notify user to enter details 3. Use case resumes at step #3 in success scenario <p>3a2. User enters wrong details</p> <ol style="list-style-type: none"> 1. User presses login button 2. System verifies details and prompts user (Invalid Username/Password) 3. Use case resumes at step #3 in success scenario

3.2. Use Case Name and Unique Identifier/ID [Author Name: Yash Thakor UC2]

Use Case Name:	Register
Description:	User can register by entering account credentials
Primary Actor(s):	User
Trigger:	User can access all functions
Precondition(s):	User should NOT have an account

Postcondition(s):	User should be on dashboard page
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User visits Sekuri-Talk website and indicates that they want to register 2. System displays register page 3. User enters details (name, email, username, password, etc...) and presses the register button 4. System verifies the details (username is unique, email exists, password is strong, etc...) 5. User is successfully registered
Alternative Courses:	<p>3a1. User does not enter details</p> <ol style="list-style-type: none"> 4. User presses register button 5. System will check for input and notify user to enter details 6. Use case resumes at step #3 in success scenario <p>3a2. User enters wrong details</p> <ol style="list-style-type: none"> 4. User presses register button 5. System verifies details and prompts user (Invalid Username/Password) 6. Use case resumes at step #3 in success scenario

3.3. Use Case Name and Unique Identifier/ID [Author Name: Zach Michniewicz UC3]

Use Case Name:	Search Hashtag
Description:	The user types a hashtag into a search bar and is presented with all tags featuring the search term
Primary Actor(s):	User
Trigger:	User wants to find specific hashtag
Precondition(s):	User is on page where search bar is
Postcondition(s):	The user is shown the matching tags
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User selects hashtag and types into search bar and presses enter 2. System checks to make sure search field was not empty

	<ul style="list-style-type: none"> 3. System works its formula to find related results and displays them 4. User is presented with hashtags similar to the one searched
Alternative Courses:	<p>2A1. System discovers user did not enter anything</p> <ol style="list-style-type: none"> 1. System displays a message informing the user that they did not enter anything 2. Use Case resumes at step 1 of success scenario <p>3A1. System does not find any related results</p> <ol style="list-style-type: none"> 1. System displays a message informing the user there were no results and they must search again 2. Use Case resumes at step 1 of success scenario

3.4. Use Case Name and Unique Identifier/ID [Author Name: Yash Thakor UC4]

Use Case Name:	Search Image
Description:	User can search image by pasting one into search bar
Primary Actor(s):	User
Trigger:	User needs to find specific image or anything related to the one he/she has
Precondition(s):	User is logged in
Postcondition(s):	User is brought to page that shows all related images
Success Scenario (or Normal Flow):	<ul style="list-style-type: none"> 1. User selects images option and pastes image into search bar and presses search 2. System works its formula to find related results and displays them 3. User is presented with images similar to the one searched
Alternative Courses:	<p>1a1. User enters invalid format of image</p> <ol style="list-style-type: none"> 1. User presses search button 2. System will check for input and notify user to enter valid format of image 3. Use case resumes at step #1 in success scenario <p>1a2. User does not paste any image</p> <ol style="list-style-type: none"> 1. User presses search button

	<ol style="list-style-type: none"> 2. System checks for input and notifies user 3. Use case resumes at step #1 in success scenario
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3.5. Use Case Name and Unique Identifier/ID [Author Name: Zachary Michniewicz UC5]

Use Case Name:	Search Author/Account
Description:	User searches for tweets from a specific author/account and is provided with them
Primary Actor(s):	User
Trigger:	User wants to view tweets from a particular account
Precondition(s):	User is on page where search bar is and knows the desired account name (twitter handle)
Postcondition(s):	The user is shown tweets from the desired account
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User selects author/account option and types name of the account into search bar 2. System checks to make sure search field was not empty 3. System works its formula to find related results and displays them 4. User is presented with related tweets from the matching account name
Alternative Courses:	<p>2A1. System discovers user did not enter anything</p> <ol style="list-style-type: none"> 1. System displays a message informing the user that they did not enter anything 2. Use Case results at step 1 of success scenario <p>3A1. System does not find any related results</p> <ol style="list-style-type: none"> 1. System displays a message informing the user there were no results and they must search again 2. Use case resumes at step 1 of success scenario

3.6. Use Case Name and Unique Identifier/ID [Author Name: Yash Thakor UC6]

Use Case Name:	View Trends on Hashtag (Bar Graph)
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Description:	User will be able to view number of time hashtag was used in tweet over a timeframe
Primary Actor(s):	User
Trigger:	User needs to see trend of hashtag (Bar graph)
Precondition(s):	User is logged in
Postcondition(s):	User is able to see bar graph
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User presses Trends button 2. System shows options to choose from within Trends 3. User presses Graph button 4. System displays start date and end date for user to choose 5. User selects dates on the calendar 6. System checks for invalid date (before Twitter was created) and displays bar graph 7. User is able to see bar graph
Alternative Courses:	<p>4A1. User selects invalid dates</p> <ol style="list-style-type: none"> 3. System displays a message informing the user that the dates are invalid 4. Use case resumes at step 4 of success scenario

3.7. Use Case Name and Unique Identifier/ID [Author Name: Yash Thakor UC7]

Use Case Name:	View Trends on Interaction
Description:	User will be able to view trends on the interaction of tweets
Primary Actor(s):	User
Trigger:	User needs to see trends on interactions of tweets
Precondition(s):	User is logged in
Postcondition(s):	User is able to see bar graph
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User presses Trends button 2. System shows options to choose from within Trends 3. User presses Trends on Interaction

	<ol style="list-style-type: none"> 4. System displays start date and end date for user to choose 5. User selects dates on the calendar 6. System checks for valid date (before Twitter was created) and displays bar graph 7. User is able to see bar graph
Alternative Courses:	<p>4A1. User selects invalid dates</p> <ol style="list-style-type: none"> 1. System displays a message informing the user that the dates are invalid 2. Use case resumes at step 4 of success scenario

3.8. Use Case Name and Unique Identifier/ID [Author Name: Zachary Michniewicz UC8]

Use Case Name:	View World Heatmap
Description:	The user will be able to view the number of tweets in a given timeframe based on the location of posting as a heatmap of the world.
Primary Actor(s):	User
Trigger:	User wants to see trends of tweets based on Geography
Precondition(s):	User is logged in
Postcondition(s):	User is shown the desired heatmap
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User presses trends button 2. System shows options to choose within trends 3. User presses World Heatmap 4. System displays start date and end date for user to choose 5. User selects dates on the calendar 6. System checks for valid date (before Twitter was created) 7. System displays a heatmap of the number of tweets posted across the world from within the timeframe
Alternative Courses:	<p>4A1. User selects invalid dates</p> <ol style="list-style-type: none"> 1. System displays a message informing the user that the dates are invalid 2. Use case resumes at step 4 of success scenario

3.9. Use Case Name and Unique Identifier/ID [Author Name: Zachary Michniewicz]

Use Case Name:	Favorite Hashtag
Description:	User saves a hashtag, which is shown in a separate list for the user
Primary Actor(s):	User
Trigger:	User wants to save a given tag for easier access to see it again in the future
Precondition(s):	User is viewing a list of hashtags
Postcondition(s):	User has a new hashtag added to favorites list
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User presses icon that resembles “favorite-ing” 2. System adds hashtag to favorites and displays message to assure user (in hashtag category) 3. User has successfully added hashtag to favorites
Alternative Courses:	

3.10. Use Case Name and Unique Identifier/ID [Author Name: Zachary Michniewicz UC10]

Use Case Name:	Favorite Tweet
Description:	User saves a tweet, which is shown in a separate list for the user
Primary Actor(s):	User
Trigger:	User wants to save a tweet for easier access to see it again in the future
Precondition(s):	User is viewing a list of tweets
Postcondition(s):	User has a new tweet added to favorites list
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User presses icon that resembles “favorite-ing” 2. System adds tweet to favorites and displays message to assure user (in tweets category) 3. User has successfully added tweet to favorites
Alternative Courses:	

3.11. Use Case Name and Unique Identifier/ID [Author Name: Yash Thakor UC11]

Use Case Name:	View Tweet
Description:	User will be able to see list of tweets related to hashtag
Primary Actor(s):	User
Trigger:	User wants to see tweets relevant to hashtag
Precondition(s):	User is viewing specific hashtag
Postcondition(s):	User will be on authors/accounts or hashtags page
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User will select specific account or hashtag option 2. System will display most recent tweets related to that account or hashtag
Alternative Courses:	

3.12. Use Case Name and Unique Identifier/ID [Author Name: Zachary Michniewicz UC12]

Use Case Name:	View Hashtag
Description:	User can view specific hashtag
Primary Actor(s):	User
Trigger:	User wants to view more about a given hashtag
Precondition(s):	User is viewing list of hashtags
Postcondition(s):	User is viewing the information on the desired hashtag
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User selects a specific hashtag among those displayed after searching 2. System takes user to page that shows more details on the specific hashtag that was selected as well as the option to favorite or view trends on hashtag 3. User is successfully able to view specific hashtag

Alternative Courses:	
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3.13. Use Case Name and Unique Identifier/ID [Author Name: Zachary Michniewcz UC13]

Use Case Name:	Download Post
Description:	User downloads a post to their device in PDF format
Primary Actor(s):	User
Trigger:	User wants to download a tweet to their device
Precondition(s):	User is viewing a tweet
Postcondition(s):	User has the tweet PDF downloaded to the user's local Downloads folder
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1. User selects download button 2. System downloads post 3. User has downloaded post
Alternative Courses:	<p>3A1. User presses No</p> <ol style="list-style-type: none"> 1. System closes the prompt popup 2. User continues browsing like they were before

3.14. Use Case Name and Unique Identifier/ID [Author Name: Vikas Rana UC14]

Use Case Name:	reset password
Description:	user wants to reset the password
Primary Actor(s):	user
Trigger:	user does not remember the correct password
Precondition(s):	user supposed to have account created with password already
Postcondition(s):	user will have the new password
Success Scenario (or Normal Flow):	1) user select the " forgot password" button

	<p>2) system will ask user to send one time password to email or phone number</p> <p>3) user will select the option phone number</p> <p>4) system will show the phone number in “*” format only last four digits are being shown</p> <p>5) user will select send code option</p> <p>6) system will send one time password to the user</p> <p>7) user will submit the one time password</p> <p>8) system will verify and ask user to create new password</p> <p>9) The user will enter a new password .</p>
Alternative Courses:	<p>1) user does not have the correct code to verify</p> <p>2) system will ask user to enter correct code</p> <p>3) user enter correct code</p> <p>4) system verifies the code</p> <p>5) user will enter new password</p> <p>6) system updates the password</p>

3.15. Use Case Name and Unique Identifier/ID [Author Name: Vikas Rana UC15]

Use Case Name:	Update Account Information
Description:	user will update information
Primary Actor(s):	user
Trigger:	user wants to give correct information about him/herself
Precondition(s):	User has older/incoreect information already
Postcondition(s):	system will have new information about the user
Success Scenario (or Normal Flow):	<p>1) user will hit the button update information</p> <p>2) user will change the phone number</p> <p>3) user will change the email address</p> <p>4) user will change the adress</p> <p>5) user will hit the save button</p>

	<p>6) system will save the response and update the information .</p>
Alternative Courses:	<p>1) user will hit the button update information 2) user will change the phone number and other information 3) system will show the box if each and every information was same as before 4) user will enter new information 5) user will hit the save button 6) system will update the information .</p>

3.16. Use Case Name and Unique Identifier/ID [Author Name: Vikas Rana UC16]

Use Case Name:	Logout
Description:	user will log out from the website
Primary Actor(s):	user
Trigger:	user wants to successfully logout from the system
Precondition(s):	user has already logged into the website
Postcondition(s):	user will log out successfully
Success Scenario (or Normal Flow):	<p>1) user will hit the “logout” button 2) system will confirm if user wants to logout from the website 3) user will hit “yes “button 4) system will successfully logout the user</p>
Alternative Courses:	<p>1)user will hit the logot button 2) system will confirm if user wants to logout from the website 3) user will hit “ no “ button 4)dialogue box will get close 5) user will continue surfing .</p>

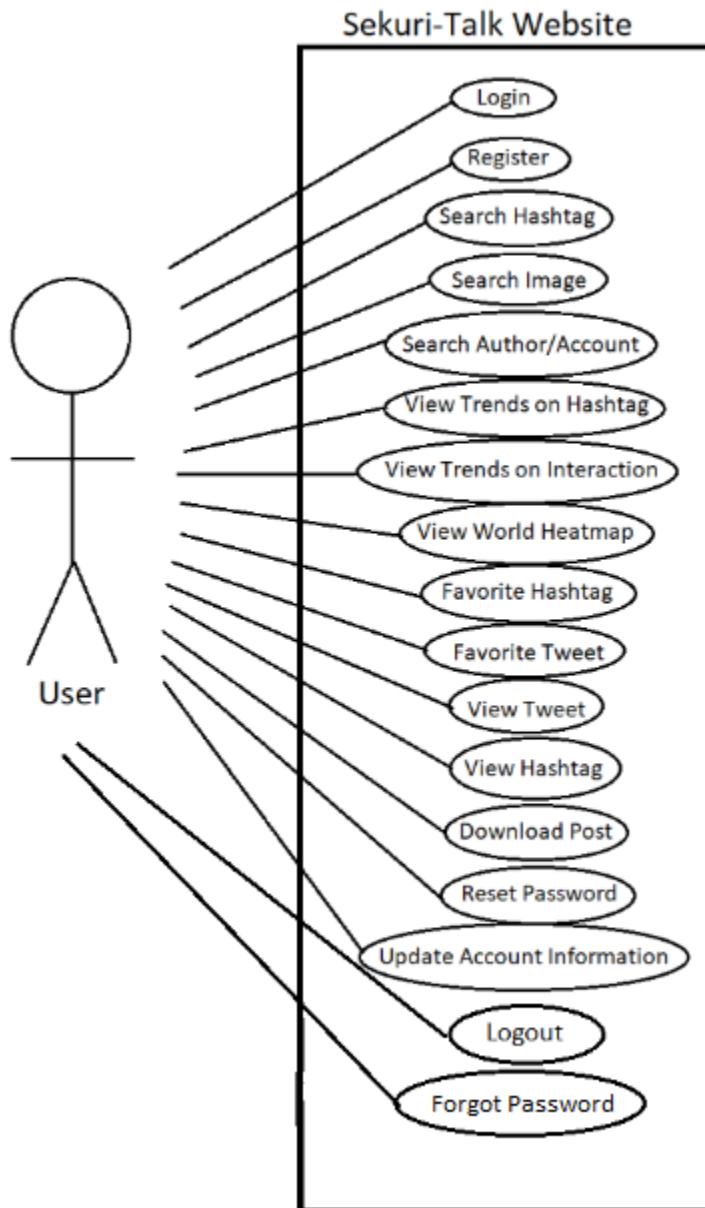
3.17. Use Case Name and Unique Identifier/ID [Author Name: Vikas Rana UC17]

Use Case Name:	Forgot Password
Description:	User wants to get email to reset password

Primary Actor(s):	User
Trigger:	User is unable to login
Precondition(s):	User has to select forgot password option User is on login page
Postcondition(s):	User will receive email to reset password
Success Scenario (or Normal Flow):	<ol style="list-style-type: none"> 1) User will select forgot password option 2) System will ask user to enter email 3) User will enter email 4) System will check for valid email and prompt user saying that email has been sent 5) User will have successfully received an email regarding password
Alternative Courses:	

4. Use Case Diagram

[Instructions: In the space given below, provide the **use case diagram** for Sekuri-talk project. See an example use case diagram below]



5. Constraints and Limitations

The **Constraint** field lists the constraint or limitation for the project. The **USE CASE ID** field lists the related use cases (if any) that provides additional context for the constraint.

Constraint	USE CASE ID

6. UI Specifications (Prototype)

Based on the use cases described in Section 3, provide the prototype for what the Sekuri-Talk website's interface would look like. UI design is a creative activity and you are allowed to create the website based on your own vision (i.e., team's vision). Additionally, you can use the UI design tool of your choice. Here are helpful resources to find the right UI design tools:

- <https://www.creativebloq.com/how-to/20-best-ui-design-tools>
- <https://blog.prototypr.io/4-best-web-ui-mockup-tools-for-free-89a1513c3fcd>
- <https://www.mockflow.com/>
- <https://creately.com/lp/wireframe-tool-online>

Your prototype should be interactive (i.e., clickable) and simulate the look and feel of the final website.

<https://www.figma.com/file/UoIwHzsYVzbl6tRDzs8mJC/Sekuri-Talk?node-id=0%3A1&t=PWDkZqY1ycX6Wbai-0>

Sekuri-Talk



Full Name:

123abc

Email:

123abc@yahoo.com

Password:

Confirm Password:

Done

Sekuri-Talk



* Email:

* Password:

Login

Register

[Forgot Password?](#)

Sekuri-Talk

Log Out



Full Name:

123abc

Email:

123abc@gmail.com

Password:

Confirm Password:

Update Information

Sekuri-Talk



Log In

Register



Sekuri-Talk



Email:

Password:

Login

Register

[Forgot Password?](#)

Sekuri-Talk

Log In



Full Name:

Email:

Password:

Confirm Password:

Register

Sekuri-Talk

Account



Search:

Enter

Type: Select below



Sekuri-Talk

Account



Search:

Enter

Type:

Select below

Hashtags

Authors/Accounts

Images



Sekuri-Talk



Search:

Enter

Type: Hashtags



Sekuri-Talk



Search:

Enter

Type: Authors/Accounts



Sekuri-Talk



Search:

Enter

Type: Images



Sekuri-Talk



Email:

123abc@gmail.com

Password:

Login

Register

Forgot Password?

Sekuri-Talk

Log In



Full Name:

123abc

Email:

123abc@gggggmail.com

Password:

Confirm Password:

Register

Sekuri-Talk

Back



Search: Cybersecurity

Enter

Type: Hashtags



Sekuri-Talk

Back



Search: Cybersecurity

Enter

Type: Authors/Accounts



Sekuri-Talk

Back

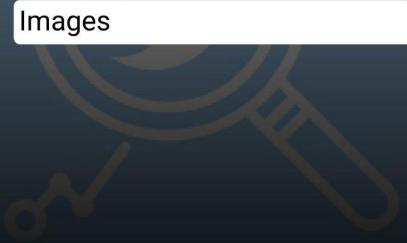


Search:

Enter



Type: Images



Sekuri-Talk



Email:

[Send Reset Email](#)

Sekuri-Talk

Log In



Full Name:

123abc

Email:

* 123abc@gggggmail.com

Password:

Confirm Password:

Register



Cybersecurity

Back

1-

#cybersecurity

2-

#womenincybersecurity

3-

#cybersecurityjobs

4-

#cybersecuritytraining

5-

#cybersecurityawareness

6-

#cybersecuritynews

7-

#cybersecurityexpert



Cybersecurity

Back

1-

@ilovecybersecurity

2-

@cybersecurityawareness101

3-

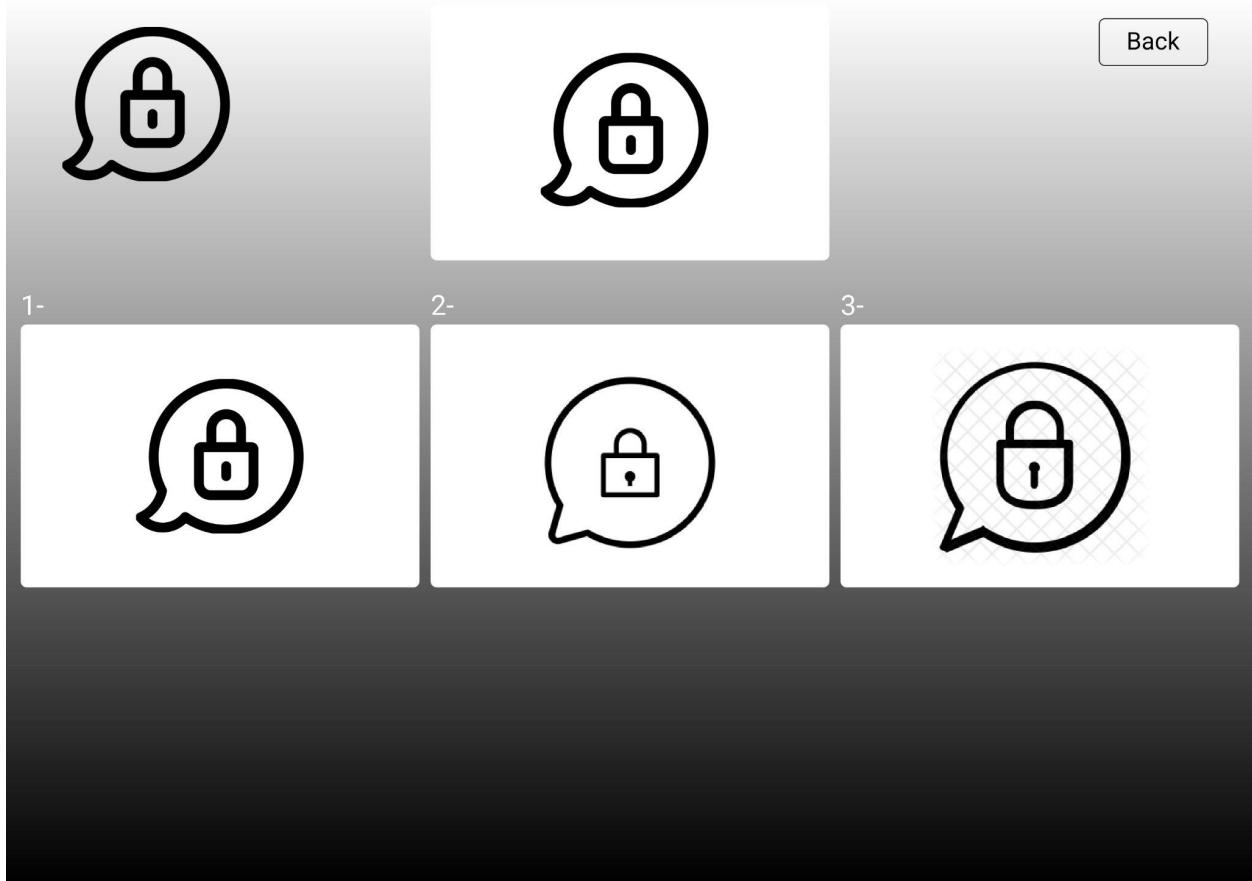
@cybersecuritygod123

4-

5-

6-

7-



Sekuri-Talk



Email:

123abc@gmail.com

Send Reset Email

Sekuri-Talk

Log In



Full Name:

123abc

Email:

123abc@gmail.com

Password:

Confirm Password:

Register



Cybersecurity

Back

#cybersecurity



Trends





Cybersecurity

Back

@ilovecybersecurity



1-

"Just got promoted!!! SO HAPPY :) #cybersecurity" 2 days ago | 1:30 PM

2-

"The Netherlands has the lowest cyber crime rate #cybersecurity" 3 weeks ago | 11:56 PM

Sekuri-Talk



Back

Email has been sent!



Cybersecurity

Back

#cybersecurity



Trends
Graph
Heatmap





Cybersecurity

[Back](#)

@ilovecybersecurity



"The Netherlands has the lowest cyber crime rate #cybersecurity"

3 weeks ago | 11:56 PM

[Trends](#)[Download Post \(PDF\)](#)



Cybersecurity

Back

@ilovecybersecurity



"The Netherlands has the lowest cyber crime rate #cybersecurity"

3 weeks ago | 11:56 PM

Post Has Been Downloaded



Cybersecurity

Back

#cybersecurity



Enter Start Date:

Enter Finish Date:

Enter



Cybersecurity

Back

#cybersecurity



Enter Start Date:

Enter Finish Date:

Enter



Cybersecurity

Back

@ilovecybersecurity



"The Netherlands has the lowest cyber crime rate #cybersecurity"

3 weeks ago | 11:56 PM

Trends

Interaction



Cybersecurity

Back

#cybersecurity



Enter Start Date: 12/22/20

Enter Finish Date: 12/25/20

Enter



Cybersecurity

Back

#cybersecurity



Enter Start Date: 12/22/20

Enter Finish Date: 12/25/20

Enter



Cybersecurity

Back

@ilovecybersecurity



"The Netherlands has the lowest cyber crime rate #cybersecurity"

3 weeks ago | 11:56 PM

Enter Start Date:

Enter Finish Date:

Enter



Cybersecurity

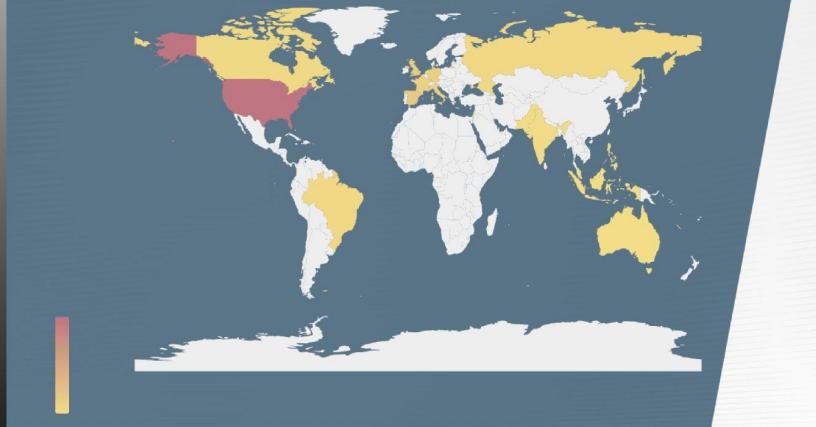
Back

#cybersecurity



Number of Tweets Related to Hashtag Heatmap

12/22/20 - 12/25/20

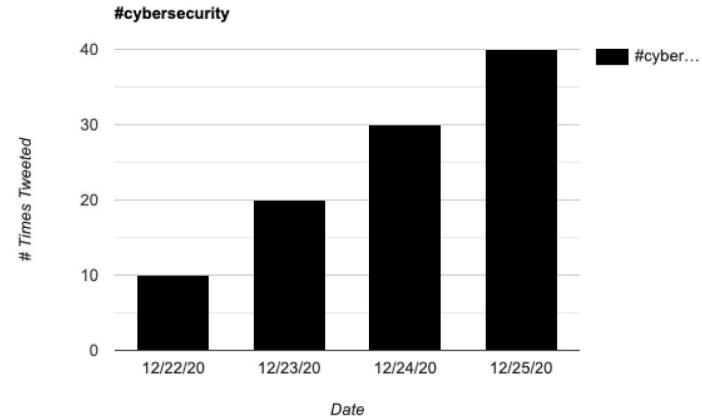




Cybersecurity

Back

#cybersecurity





Cybersecurity

Back

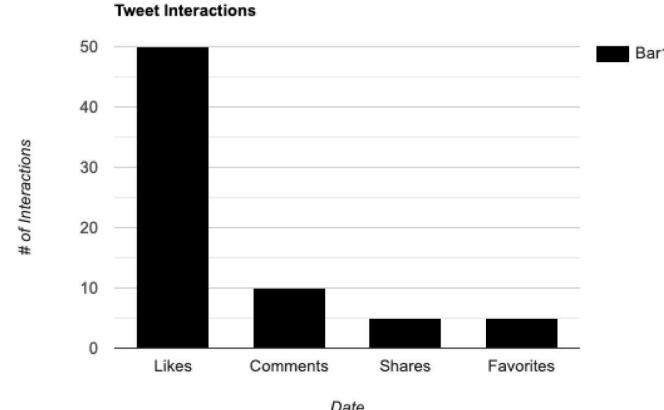
Enter Start Date:

Enter Finish Date:



Cybersecurity

Back



7. Definitions and Acronyms

Example:

Term	Definition
Tweet	A post from the website Twitter
MySQL	The database management system being utilized for this project.
PHP	The backend language being utilized by the server.
SQL	The language being used to query, access, and modify our database.
Step	A task that needs to be completed on the dissertation schedule.