

User Manual

Jargon Sentiment Analysis

Developers: Team Syntactic Sugar

Client: Compiax

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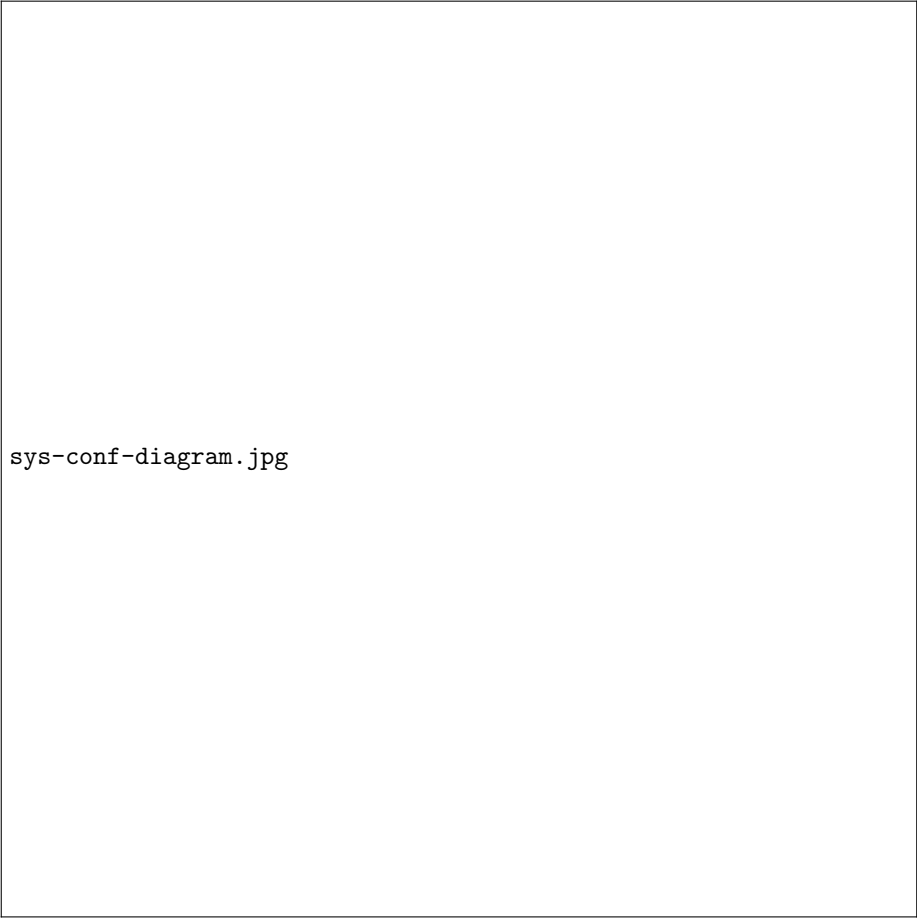
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1 System Overview

The goal of the project is to give researchers, especially market-researchers, the ability to determine common public opinions on different topics. It achieves this by streaming social media data on a platform such as Twitter for a set period of time, before analyzing this data and presenting it in a way where the user can see which percentages of users have positive, neutral or negative opinions on a certain subject. This data can also be used to further drill-down on aggregated data, showing insights such as opinion divided into geographical location. Users are able to organize their searches into projects, which can be run on regular intervals, and include white-listed words to combine searches for different topics, as well as black-listed words, to exclude certain terms and concepts from the analysis.

2 System Configuration



sys-conf-diagram.jpg

The website connects to the controller server to retrieve data about users and projects. When the website requests a project to be run, the controller server creates a listener, which aggregates data from an external social platform such as Twitter. It then sends the streamed data to the neural network, which analyses and classifies it, before sending it back to the controller to be displayed on the website. An Internet connection is needed to load the user's data and projects on the web application. The latest version of Internet Explorer, Brave Browser, Google Chrome or Mozilla Firefox is recommended.

3 Installation

Website: The website is installed and hosted on a server, along with all back-end services that help the website run. Source code for all services can be found on Github.

4 Getting Started

To access the system for the first time, a user can access the system's registration page, where they can enter their credentials, before submitting before creating a new profile for themselves. See section 5.1 below for more info.

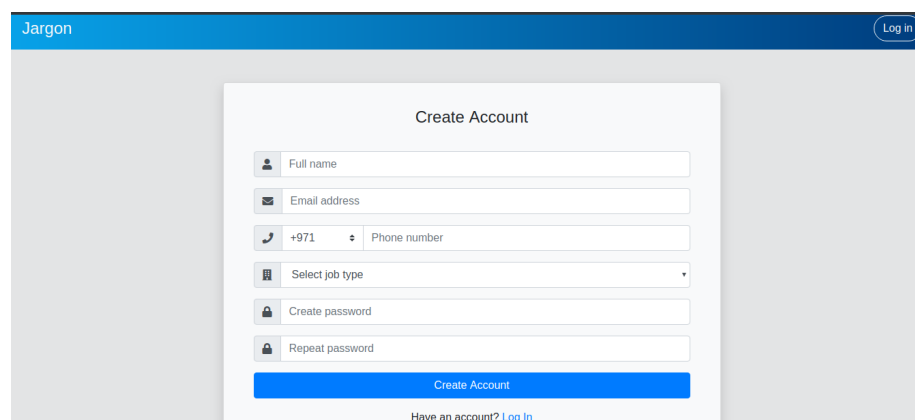


Figure 1: Registration Screen

If a user has already registered, they can use the login page to enter their login details and gain access to the system.

After a user has registered or logged in, they can create new projects containing white-listed words they want to search, as well as black-listed words that must not appear in results. Other configuration settings can also be set per

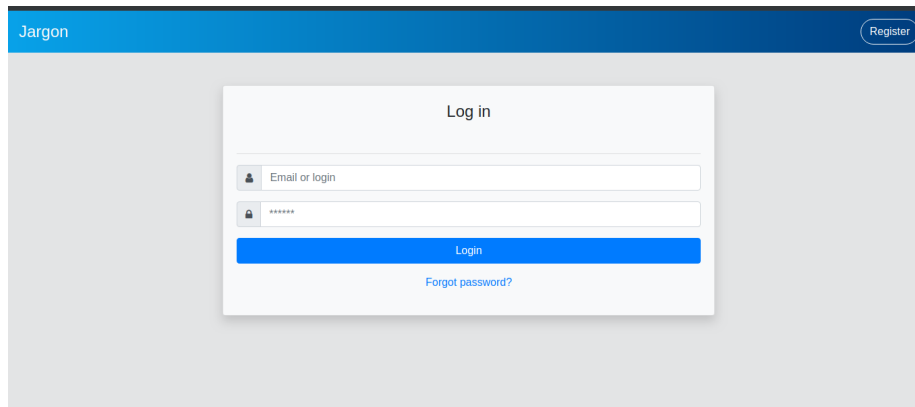


Figure 2: Login Screen

project. Users can also edit or remove their already created projects. Once a user has created a project, they can start it. Starting a project causes it to run for the time specified, before sending its data to the neural network. This process happens in the background while the user waits. After the data has been analyzed, it is displayed in a useful form on the user's dashboard. The user can exit the system by simply closing the browser tab.

5 Using the System

Once the website has been opened, the user will be greeted with the login screen shown above in Figure 2.

5.1 Register

The user must register with the system the first time they want to use it. To get to the registration screen from the welcoming/login screen, press the "Register" button in the top right corner. This will take you to the registration screen. Here, please enter your credentials into the following fields:

- Full Name
- Email
- Phone Number
- Job Type
- Password
- Confirm Password

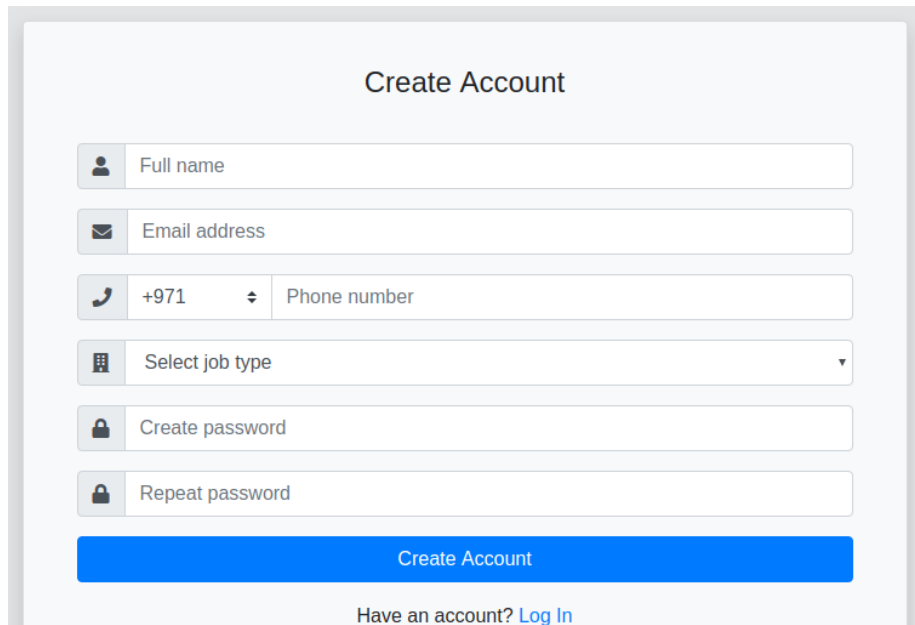
The image shows a 'Create Account' registration form. It has a title 'Create Account' at the top. Below the title are several input fields: 'Full name' with a person icon, 'Email address' with an envelope icon, a phone number field with a dropdown set to '+971' and a phone icon, 'Select job type' with a grid icon and a dropdown arrow, 'Create password' with a lock icon, and 'Repeat password' with a lock icon. At the bottom is a large blue button labeled 'Create Account'. Below the button is a link that says 'Have an account? Log In'.

Figure 3: Register Screen Form

The user must enter his/her password twice to ensure that they do not save a typo. After a user's details have been entered, they click on the Register button to register. A message will show that the user has successfully registered and can now use the website. If they receive an error, see the troubleshooting section.

5.2 Login

After you have successfully registered, you can now login. From the welcoming/login screen enter the same Email and Password that you registered with, click on the Login button to login. As seen in figure 3. If the details are correct, you will be logged in. You can now use the website to analyse social media data. You will see the home dashboard.

5.3 Create Project

After accessing the home screen, the user can create a project that can then stream social media data and have it analysed. Users can click on the "Projects" drop-down, and then "Create Project". This will take the user to the screen shown in Figure 5. The user will then enter the following values into the corresponding field:

- Project Name

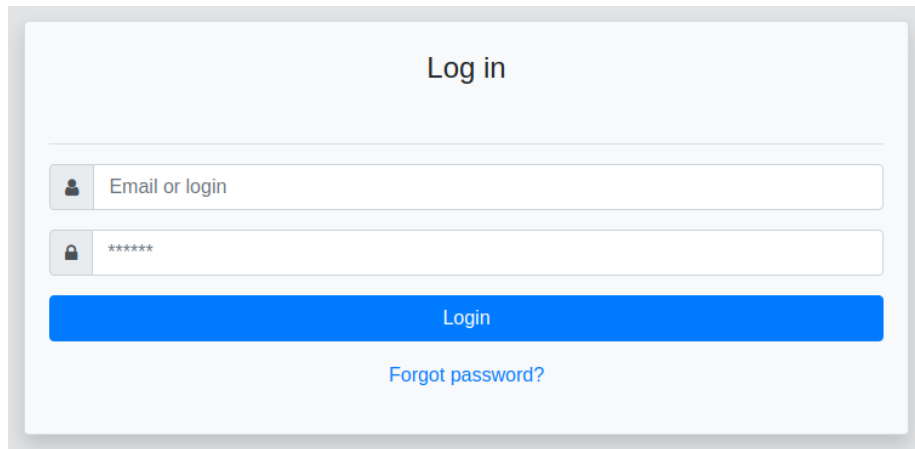
The image shows a login screen with a light grey background. At the top, the text "Log in" is centered. Below it, there are two input fields. The first field has a user icon on the left and the placeholder text "Email or login". The second field has a lock icon on the left and the placeholder text "*****". Below these fields is a blue button with the text "Login". At the bottom, there is a link that says "Forgot password?" in blue text.

Figure 4: Login Screen Form

- Source
- Track Time (Minimum of 30 seconds)
- White-listed Word(s)
- Optional Black-listed Word(s)

Lastly, press the "Create" button to create and save the project. This will only be possible if all necessary fields are entered correctly.

5.4 View All Projects

After accessing the home screen, the user can view all created projects on the same screen. Users can click on the "Projects" drop-down, and then "View Projects". This will list all their projects as seen in Figure 6.

5.5 View Project Details

After viewing all projects, the user can expand any single project to view more details and further options for that project. They can do this by simply clicking on the project button. This will open as seen in Figure 7.

5.6 Edit Project Details

After viewing detailed information about a single project, a user can choose to edit a project's details by clicking on the grey "Edit" button in that project's expanded screen. This will take them to the screen seen in Figure 8. Here, they will be able to edit the following details in their corresponding fields:

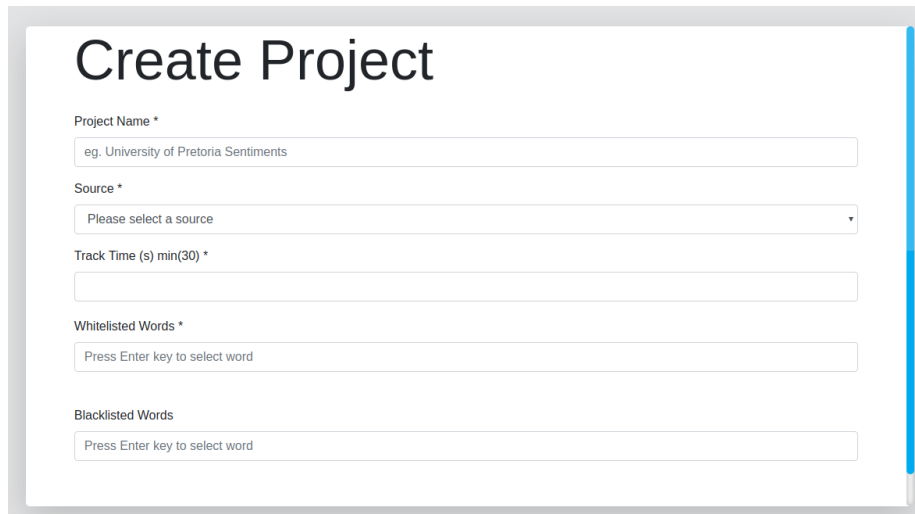
The image shows a web form titled "Create Project" in a large, bold, black font. Below the title, there are five input fields, each with a label and an asterisk indicating it is required. The first field is "Project Name *" with a placeholder text "eg. University of Pretoria Sentiments". The second field is "Source *" with a placeholder text "Please select a source" and a small downward arrow on the right. The third field is "Track Time (s) min(30) *" with an empty input box. The fourth field is "Whitelisted Words *" with a placeholder text "Press Enter key to select word". The fifth field is "Blacklisted Words" with a placeholder text "Press Enter key to select word". The form is set against a light grey background with a blue vertical bar on the right side.

Figure 5: Create Project Screen Form

- Project Name
- Source
- Track Time (Minimum of 30 seconds)
- White-listed Word(s)
- Black-listed Word(s)

They will then be able to save the edited changes by clicking the grey update button.

5.7 Start Project

After viewing detailed information about a single project, a user can choose to start a specific project by clicking on the yellow "Start" button in that project's expanded screen.

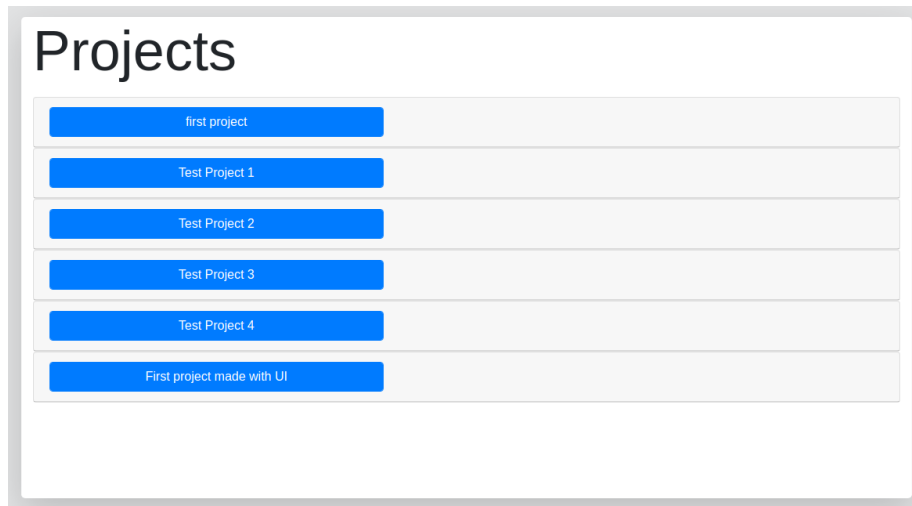


Figure 6: View All Projects Screen

6 Troubleshooting

Q: Why is the registration screen showing errors instead of registering me? A: Read the errors to determine which details were entered incorrectly. Make sure you enter a valid email address and repeat your password correctly.

Q: Why is the button allowing me to save a new project or edit a project greyed out? A: Make sure the project's tracktime is large enough

Projects

Project Name: first project
ID: 5ccb01345a6f891ad4938b98
Whitelisted words: Obama, Trump
Blacklisted words: America
Source: Twitter
Created by: Test User
Date created: 2019-05-02T14:39:48.085Z

Start
Edit
Remove

Test Project 1

Test Project 2

Test Project 3

Figure 7: View Project Details

Project Name *

Whitelisted Words *

Obama X

Trump X

Blacklisted Words

America X

Source *

Track Time (s) min(30) *

Update

Cancel

Figure 8: Edit Project Details

Figure 9: Edit Project Details