

# Design Document



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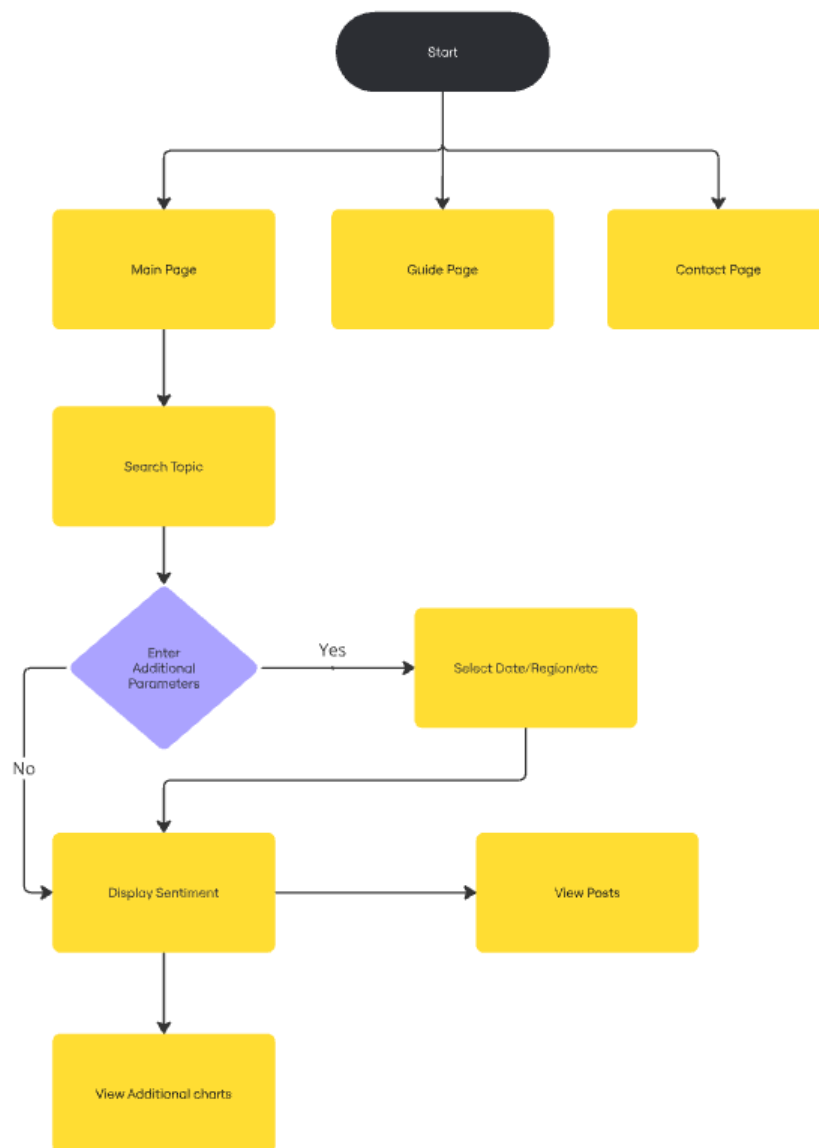
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# Introduction

In this document I am going to demonstrate the overall design of my web system. I am going to show how my user navigates the website using a flowchart. I am going to show how the system interacts with Reddit as well as the user using sequence diagrams. Screenshots of prototype web pages are included to show how I wish to implement the layout of the website.

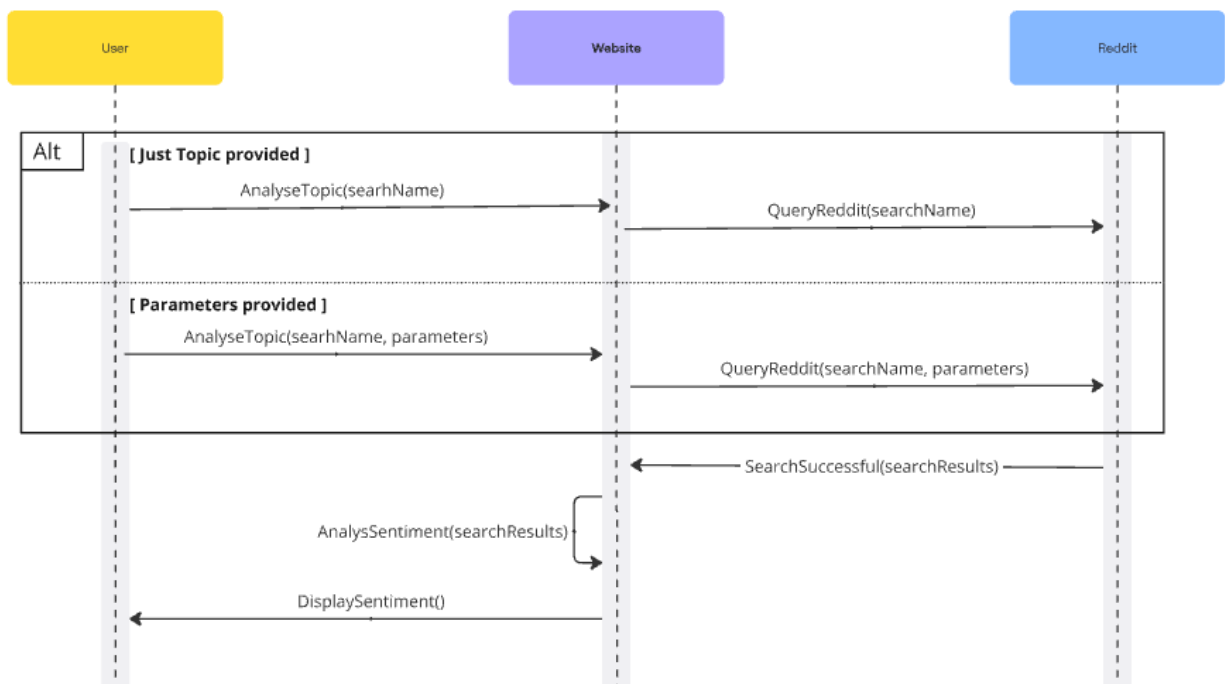
## Flow Chart



The flow chart above shows the order of actions the user can take. At the start they can open 3 pages either the Main/Home page, the guide page or contact page. From the main page they can enter their topic and have the choice to enter additional parameters. Then the sentiment is displayed for the user. From there the user can either view the posts related to their search or view additional information in the form of charts.

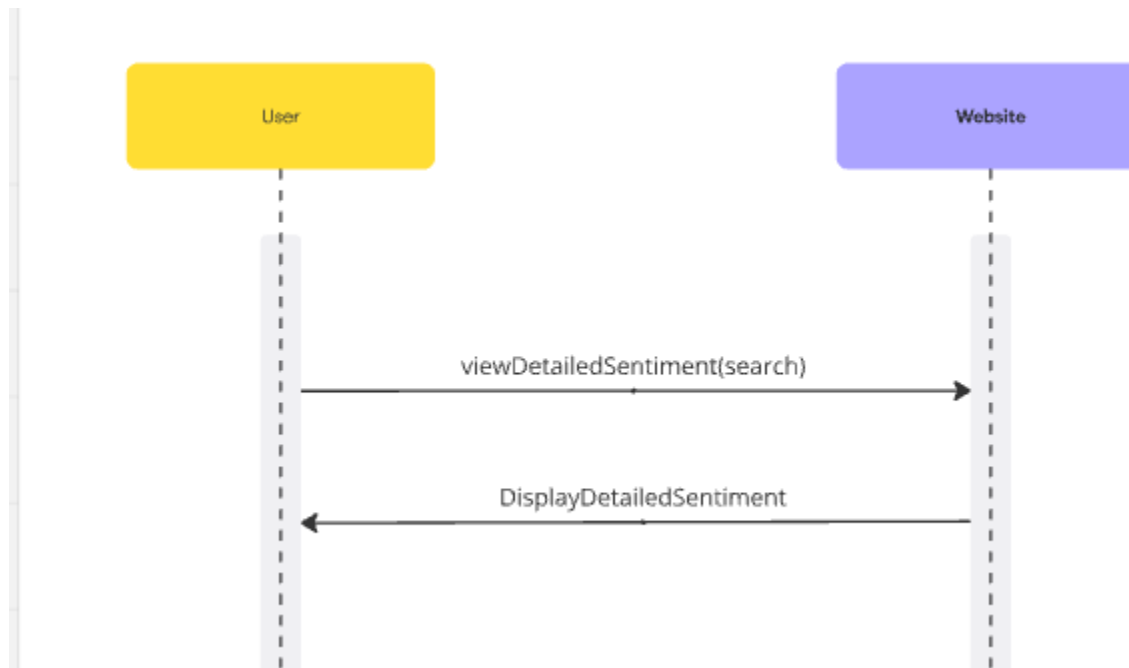
## Sequence Diagrams

### Analyse Topic



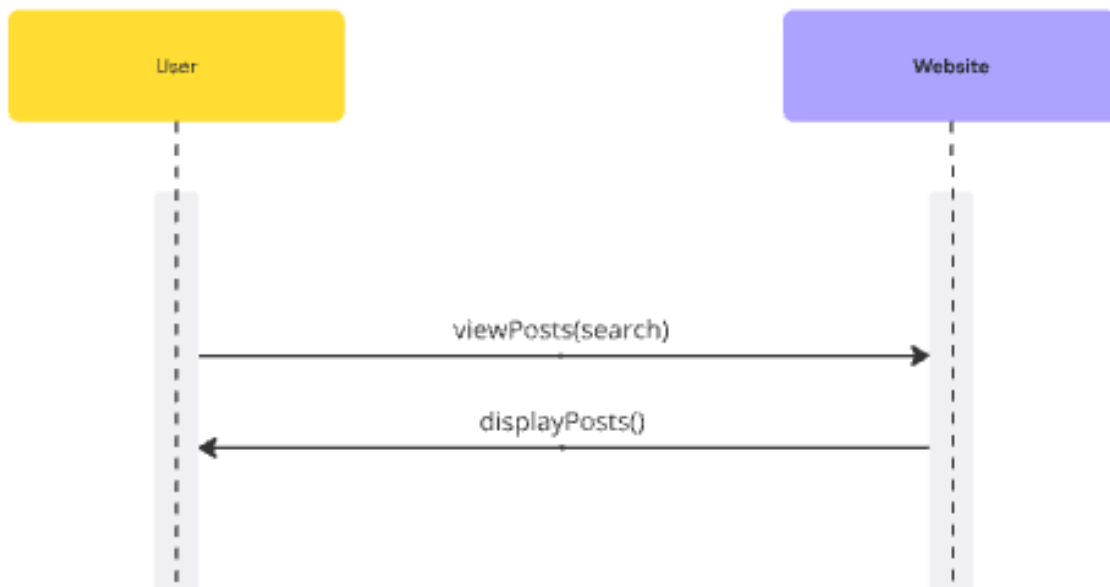
In the sequence diagram above the user has 2 options either enter the topic by itself in the search or add additional parameters such as date or region specific. The website takes the input from the user and makes a query to Reddit's API within the given parameters. The tweets are then taken and processed by the website. Charts are created and the sentiment displayed for the user.

## View Detailed Sentiment



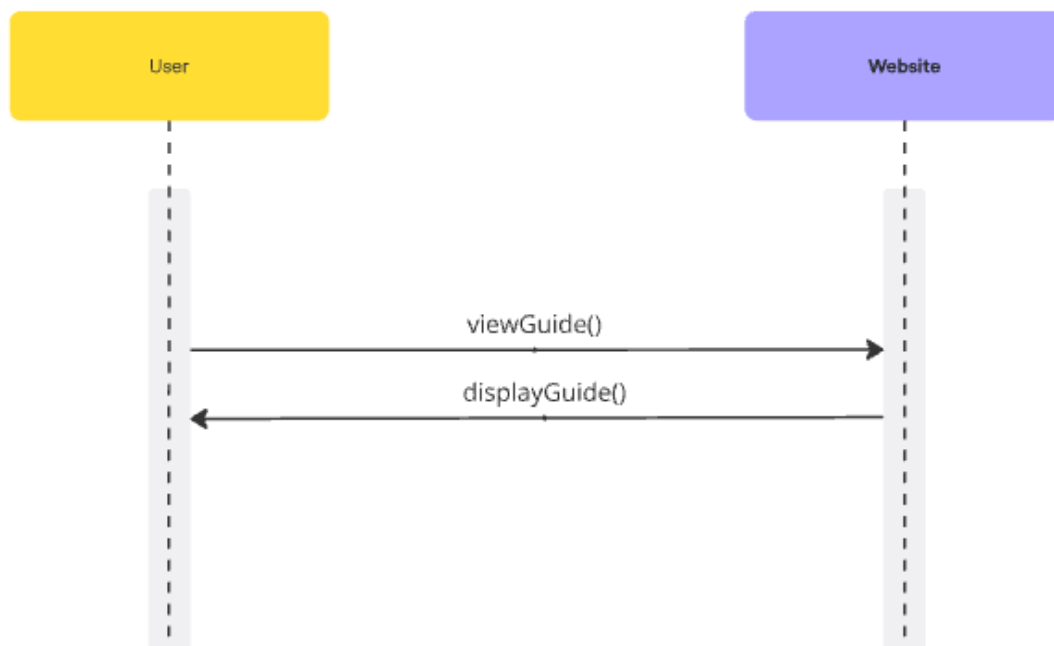
In the sequence diagram above the user requests the website for a more detailed view of the sentiment search. The website processes that request and creates charts and then displays them for the user.

## View Posts



In the sequence diagram above the user requests the website for a detailed view of the posts and their sentiment. The website processes that request and displays the posts for the user.

## View Guide

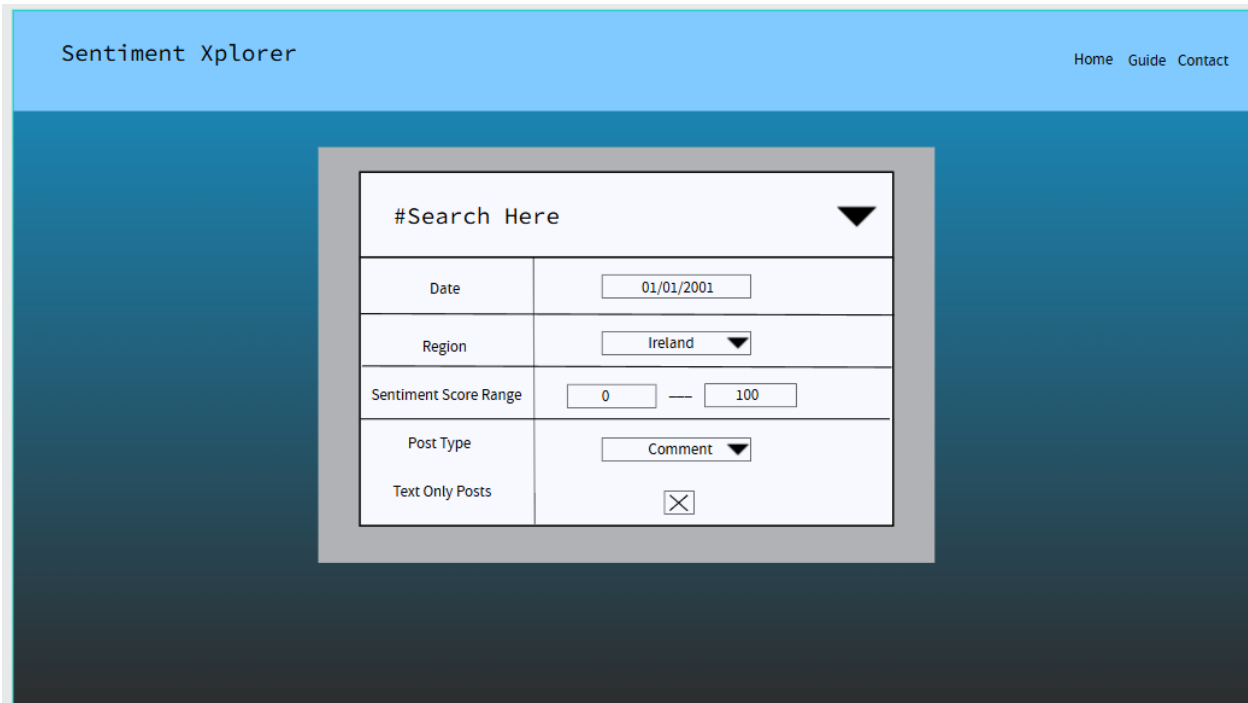


In the sequence diagram above the user requests the website for it to open the guide page. The website then displays the guide page for the user.



# Prototype GUI

## Home Screen

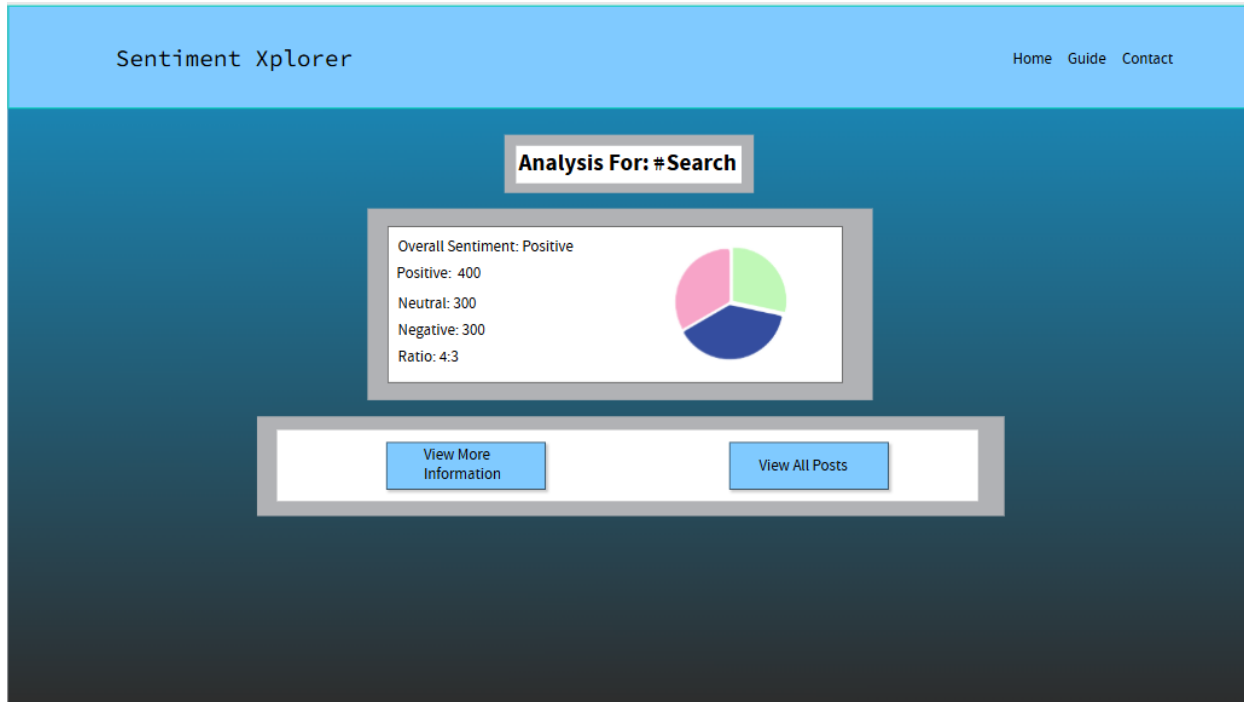


The image shows a prototype GUI for a web application. At the top is a light blue header bar with the text "Sentiment Xplorer" on the left and "Home Guide Contact" on the right. Below the header is a dark blue background. In the center is a white rectangular search form with a grey border. The form contains a search bar at the top with the placeholder text "#Search Here" and a downward arrow icon. Below the search bar are five rows of input fields: "Date" with a text box containing "01/01/2001", "Region" with a dropdown menu showing "Ireland", "Sentiment Score Range" with two text boxes containing "0" and "100" separated by a horizontal line, "Post Type" with a dropdown menu showing "Comment", and "Text Only Posts" with a checkbox icon.

#Search Here ▼	
Date	01/01/2001
Region	Ireland ▼
Sentiment Score Range	0 — 100
Post Type	Comment ▼
Text Only Posts	<input type="checkbox"/>

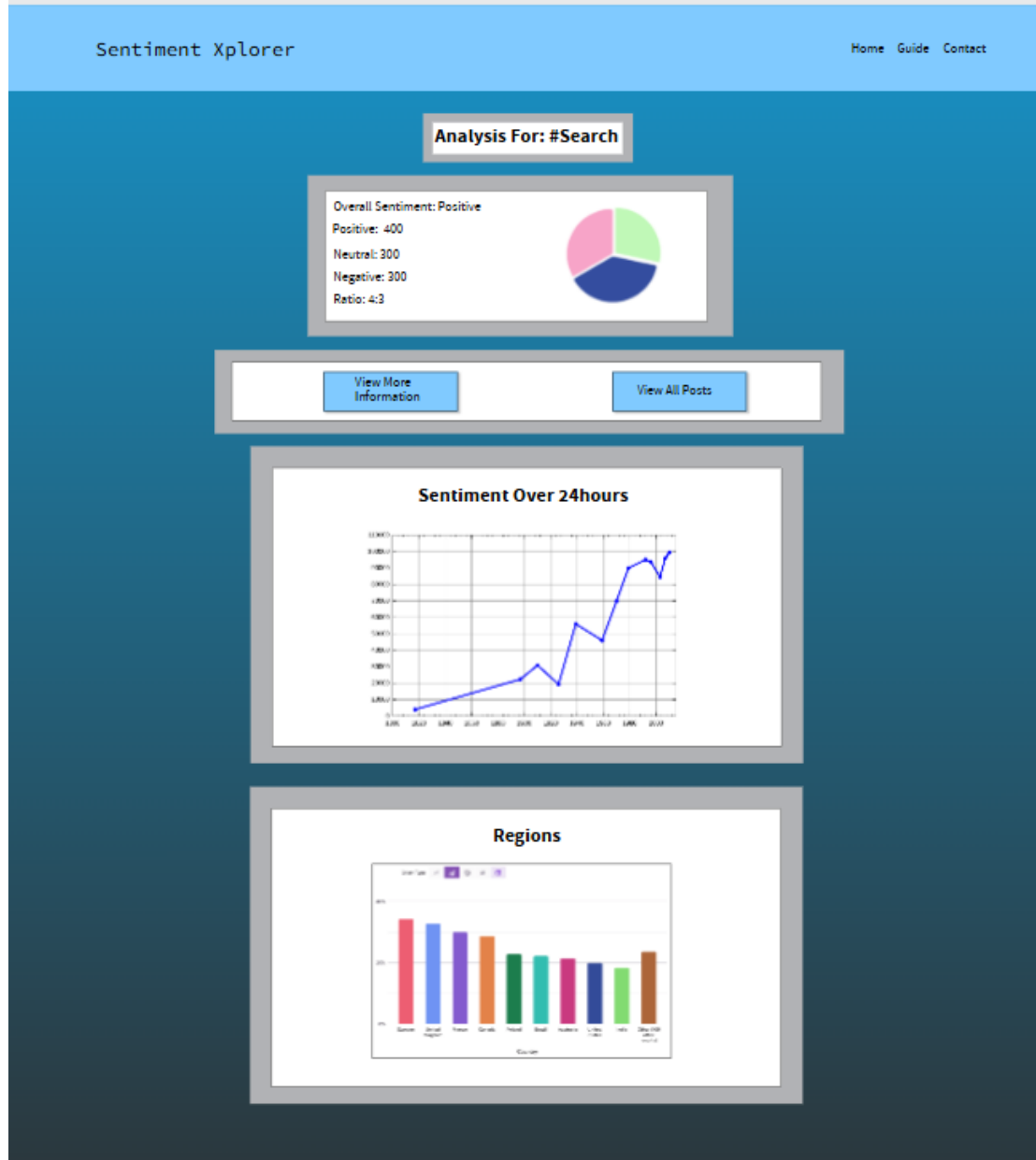
## Main/Home Page

## View Sentiment Screen



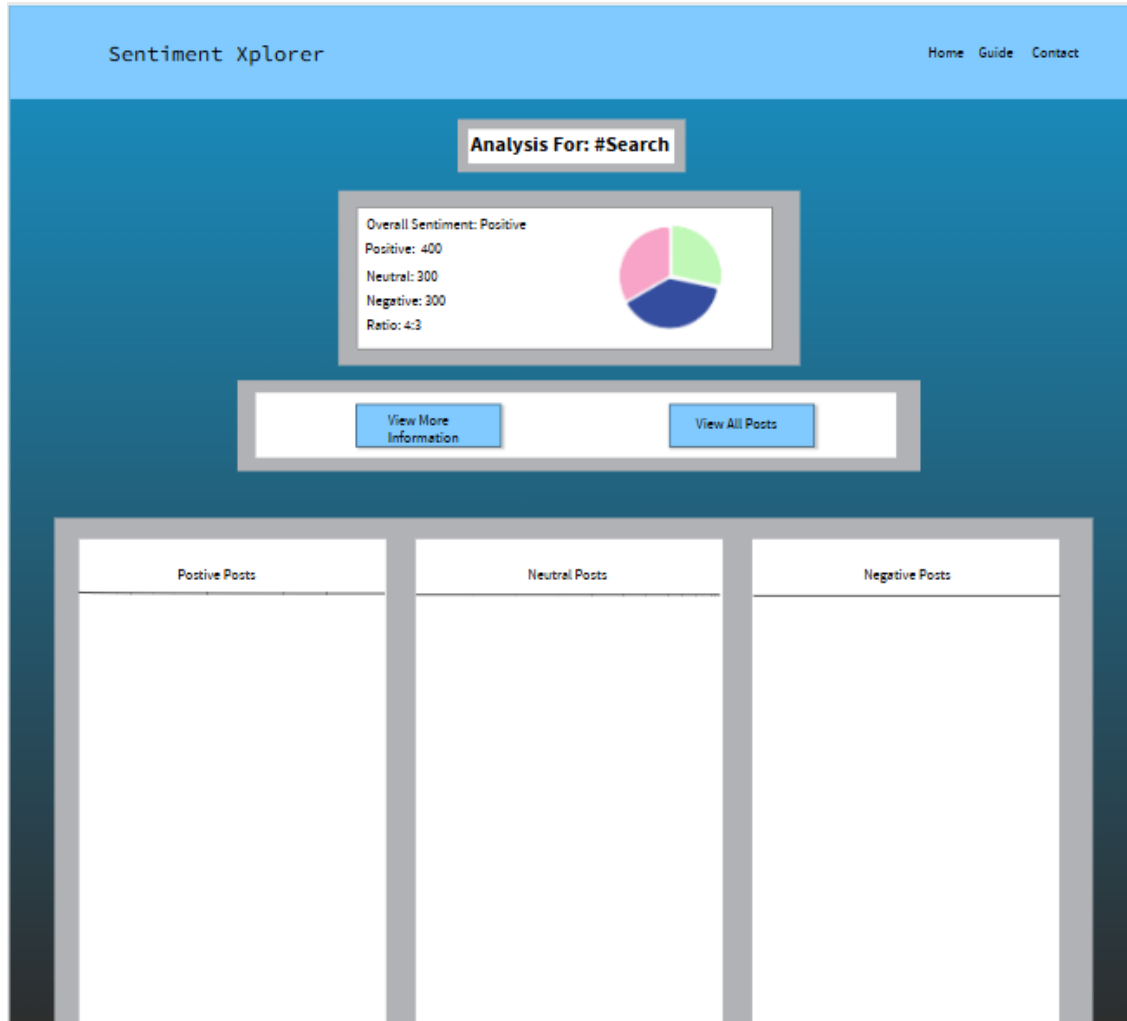
Home Page => Sentiment Searched

## View Sentiment – More information Screen



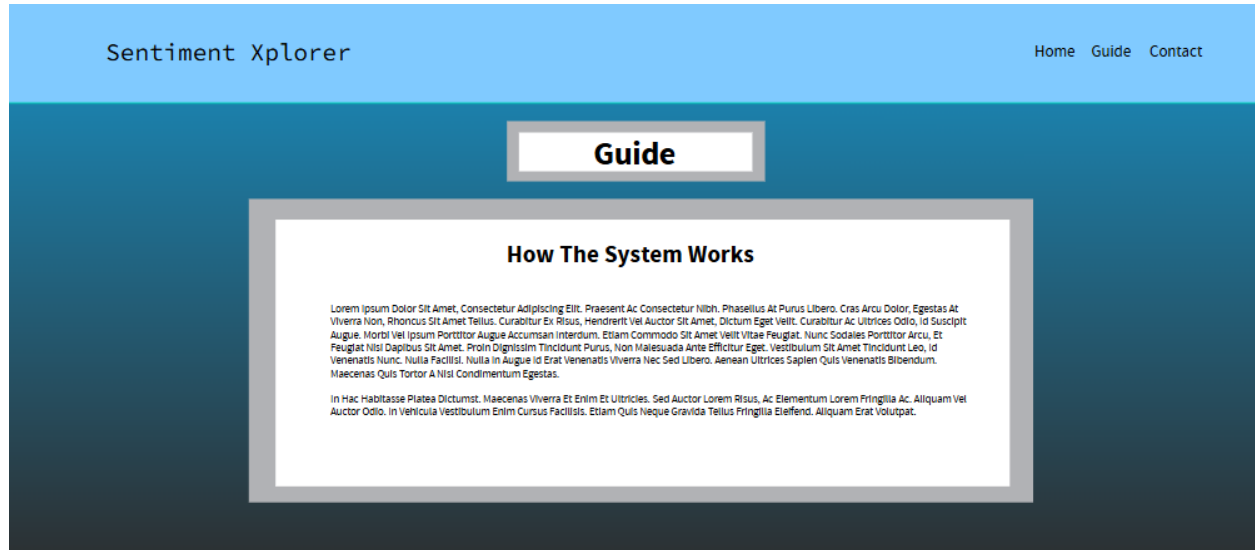
Home Page => Sentiment Searched => View more Information

## View Sentiment – View Posts Screen



Home Page => Sentiment Searched => View All Posts

## Guide Screen



## Guide Page