**LIST OF LIBRARIES USED IN THE PROJECT – TWITTER SENTIMENT ANALYSIS**

There are total six pages in the project and within the certain page we use some libraries and below is the given information about each library which are used in different pages.

1. **ui.r**

Library(shiny)

Shiny is an R package that makes it easy to build interactive web apps straight from R. You can host standalone apps on a webpage or embed them in R Markdown documents or build dashboards. You can also extend your Shiny apps with CSS themes, htmlwidgets, and JavaScript actions

1. **server.r**

Library('devtools')

The aim of devtools is to make package development easier by providing R functions that simplify common tasks.

Library(tm)

A framework for text mining applications within R.

Library(SnowballC)

Snowball is a language in which stemming algorithms can be easily represented. The Snowball compiler translates a Snowball script (a  .sbl file) into either a thread-safe ANSI C program or a Java program. For ANSI C, each Snowball script produces a program file and corresponding header file (with  .c  and  .h  extensions).

Library(ggplot2)

ggplot2 is a plotting system for R, based on the grammar of graphics, which tries to take the good parts of base and lattice graphics and none of the bad parts. It takes care of many of the fiddly details that make plotting a hassle (like drawing legends) as well as providing a powerful model of graphics that makes it easy to produce complex multi-layered graphics.

Library(scales)

Graphical scales map data to aesthetics, and provide methods for automatically determining breaks and labels for axes and legends.

Library(Rgraphviz)

Interfaces R with the AT and T graphviz library for plotting R graph objects from the graph package.

Library(wordcloud)

Library(rpart)

The rpartprograms build classification or regression models of a very general structure

using a two stage procedure; the resulting models can be represented as binary trees.

Library(ROCR)

**ROCR** is a flexible tool for creating cutoff-parametrized 2D performance curves by freely combining two from over 25 performance measures

Library(pROC)

The procfilesystem(procs) is a special filesystem in Unix-likeoperating systems that presents information about processes and other system information in a hierarchical file-like structure, providing a more convenient and standardized method for dynamically accessing process data held in the kernel than traditional tracing methods or direct access to kernelmemor

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Library(sentiment)

Analyses sentiment of a sentence in English and assigns score to it. It can classify sentences to the following categories of sentiments:- Positive, Negative, very Positive, very negative, Neutral. For a vector of sentences, it counts the number of sentences in each category of sentiment.In calculating the score, negation and various degrees of adjectives are taken into consideration. It deals only with English sentences.

library(twitteR)

R language through package TwitteR is able to extract information from Twitter for Text Mining purposes

library(plyr)

plyris an R package that makes it simple to split data apart, do stuff to it, and mash it back together. This is a common data-manipulation step. Importantly, plyr makes it easy to control the input and output data format from a syntactically consistent set of functions.

library(RColorBrewer)

It is an R package that allows users to create colourful graphs with pre-made color palettes that visualize data in a clear and distinguishable manner

library(e1071)

It is collection of many functions for latent class analysis, short time Fourier transform, fuzzy clustering, support vector machines, shortest path computation, bagged clustering, naive Bayes classifier etc.

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1. **totalcleanupneeded.r**

require(plyr)

plyr is an R package that makes it simple to split data apart, do stuff to it, and mash it back together. This is a common data-manipulation step. Importantly, plyr makes it easy to control the input and output data format from a syntactically consistent set of functions.

require(stringr)

The stringr package provide a cohesive set of functions designed to make working with strings as easy as possible. Stringr is built on top of stringi, which uses the ICUC library to provide fast, correct implementations of common string manipulations. stringr focusses on the most important and commonly used string manipulation functions whereas stringi provides a comprehensive set covering almost anything you can imagine.

1. **wordcloud.r**

library(RColorBrewer)

It is an R package that allows users to create colourful graphs with pre-made color palettes that visualize data in a clear and distinguishable manner

1. **credentials.r**

library("twitteR")

R language through package TwitteR is able to extract information from Twitter for Text Mining purposes.

library("ROAuth")

Provides an interface to the OAuth 1.0 specification allowing users to authenticate via OAuth to the server of their choice.

library(base64enc)

This package provides tools for handling base64 encoding. It is more flexible than the orphaned base64 package.