### Team Members :

#### Anmol More : 11915043

#### Dharani Kiran Kavuri : 11915033

#### Shubhendu Vimal : 11915067

library(shiny)

library(shinythemes)

library(wordcloud)

library(udpipe)

library(ggraph)

library(igraph)

library(stringr)

shinyUI(fluidPage(

# Application title

theme = shinytheme("united"),

titlePanel(title = div(

img(

src = "isb.png",

height = "5%",

width = "5%",

align = "right"

),

"Q3 : NLP Workflow"

)),

# Sidebar with a slider input for number of bins

sidebarLayout(

sidebarPanel(

fileInput("text\_file", label = "Upload text file (english only)"),

hr(),

checkboxGroupInput(

"pos\_tags",

label = "Select part-of-speech tags :",

choices = list(

"adjective (ADJ)" = 1,

"noun (NOUN)" = 2,

"proper noun (PROPN)" = 3,

"adverb (ADV)" = 4,

"verb (VERB)" = 5

),

selected = list(1, 2, 3)

),

br(),

sliderInput(

"min\_freq",

label = "Minimum Frequency of words for Wordcloud :",

min = 0,

max = 50,

value = 5

),

sliderInput(

"max\_words",

label = "Maximum Number of Words in Wordcloud :",

min = 10,

max = 200,

value = 100

)

),

mainPanel(

tabsetPanel(

type = "tabs",

tabPanel(

"Overview",

h3(p("How to use this App")),

p(

"To use this app you need a document corpus in text file format. Document needs to be plain text with multiple lines",

align = "justify"

),

h4("Note"),

p(

"If you wish to change the input file, just uplaod the file again and wait for few seconds for processing",

align = "Justify"

),

br(),

p(

"App created by - Anmol More (11915043), Dharani Kiran Kavuri (11915033) & Shubhendu Vimal (11915067)",

align = "justify"

)

),

tabPanel(

"Annotated Document",

h2("Top 100 rows from annotated document"),

#tableOutput("annotated\_table"),

h2("Download Data"),

downloadButton('download\_df', 'Download Annotated document')

),

tabPanel(

"Word Cloud",

h2("Word Cloud for Nouns in Corpus"),

plotOutput("word\_cloud\_noun", width = "100%"),

h2("Word Cloud for Verbs in Corpus"),

plotOutput("word\_cloud\_verb", width = "100%")

),

tabPanel("Top 30 Co-occurrences", plotOutput("co\_occurance\_plot"))

)

)

)

))