USER MANUAL

User Review NLP Analysis

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General Information

Application Overview

TechGig_Virtual_UserReviewNLPAnalysis uses UiPath to automate the current workflow. This application read the user review from the different web applications (ie. Amazon, Flipkart and Google). Get the 'Sentiment analysis' and 'key phrases' froe each review using Microsoft Text Analysis API. On the basis of 'Sentiment analysis' result generates GUI report.

System Requirements

Prerequisite

Following are prerequisites to run the application

1. UiPath Robot
2. Microsoft Office (Excel)
3. Outlook
4. Chrome (with UiPath chrome plugin installed and enabled)
5. Internet Explorer
6. Microsoft Text Analysis API Key
7. Microsoft Text Analysis API Service URL

Application Package Contains

Application package contains

1. Published Libraries
   a. Amazon
   b. Flipkart
   c. Google
   d. Outlook
   e. Generic
2. Published nugget packages
3. Application nugget package

Installation Steps

Steps

Follow following steps to run the application

1. Copy published nuggets packages from "**Published nugget packages**" folder to "**.nuget**" folder. (Nuget folder path is "**C:\Users\{UserName}\.nuget\packages**")
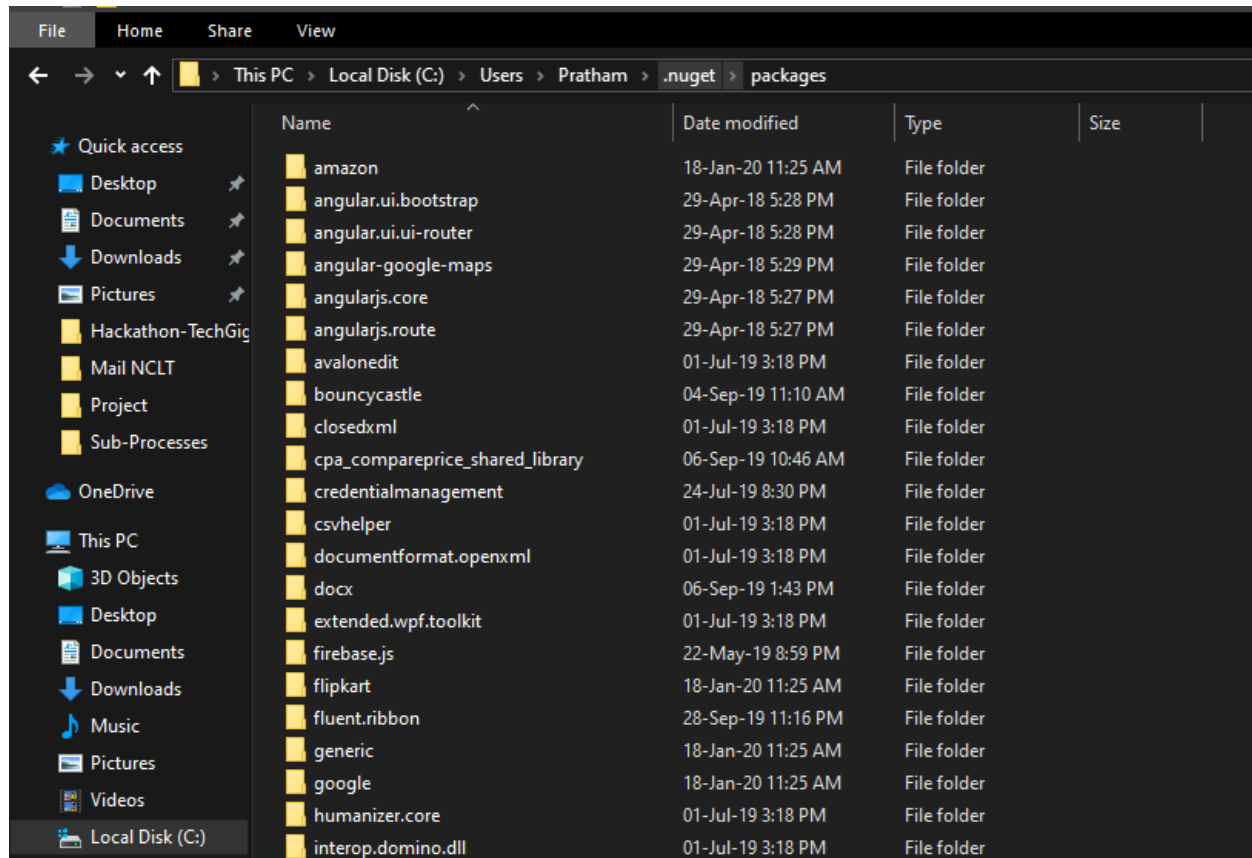

Fig. Folder Stricture (Nuget Package Folder)

2. Copy published nuggets package from "**Application nugget package**" folder to "**UiPath package folder**" folder. (Folder path is "**C:\ProgramData\UiPath\Packages**")
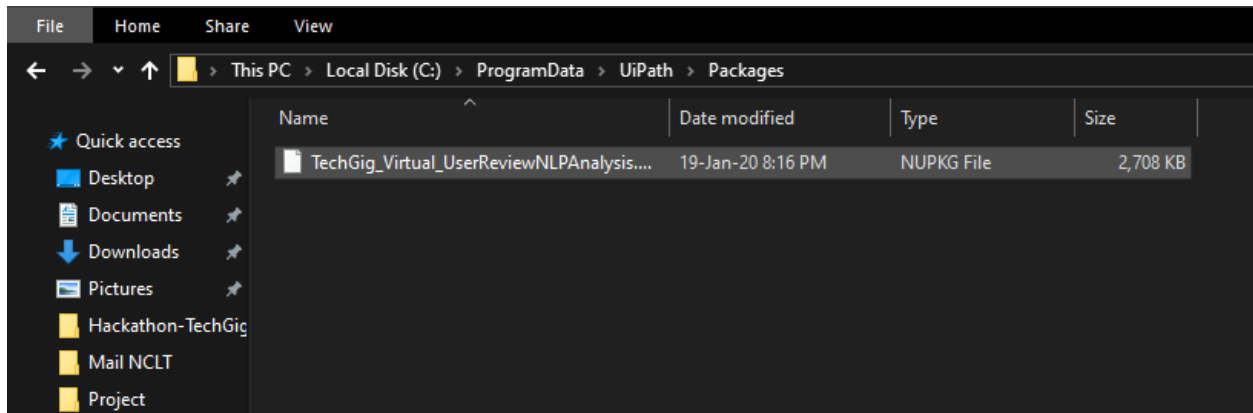

Fig. Folder Stricture (UiPath Package Folder)

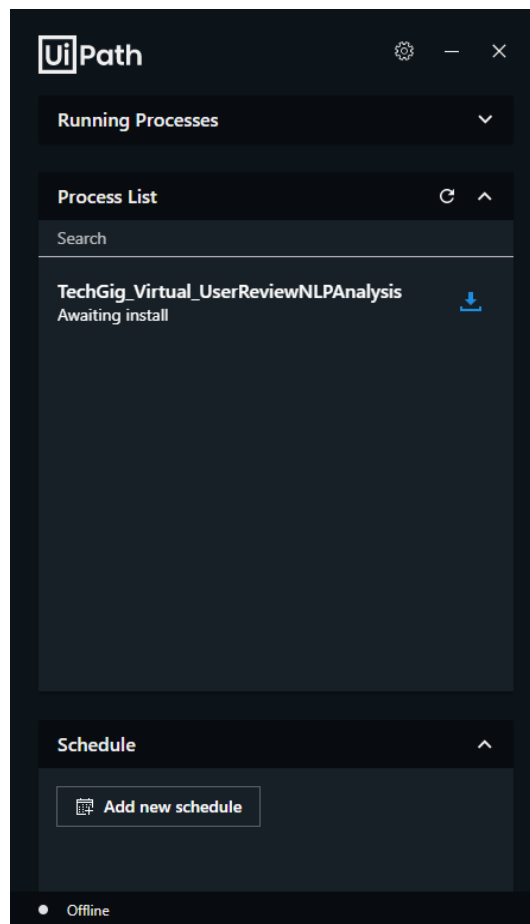3. Install nuget package using UiPath Robot.

Fig. Orchestrator Robot

4. Update the config file as per requirement.

Constants	Values
HTMLTemplate_FilePath	HTML Template File Path Eg. D:\Prathamesh\RPA\Hackathon-TechGig\Project\UserReviewNLPAnalysis_Dispatcher\Data\HTML Template\HTMLTemplate.html
NLPBadThreshold	Bad Value Upper Threshold (Value varies between 0 to 1) Eg. :- 0.5
NLPAverageThreshold	Average Value Upper Threshold (Value varies between 0 to 1) Eg. :- 0.8
ReviewsToProcess	No of reviews extracted from web applications Eg. :- 15
NLP_APIName	Microsoft Text analysis
NLP_APIKey	API Key Eg. :- {231a21s3ae4weaeefs21q1......}
NLP_SreviceURL	https://westcentralus.api.cognitive.microsoft.com/text/analytics/v2.1/
NPL_UserName	User Name ** Value is based in NLP uses for Sentiment Analysis **
NPL_Password	Password ** Value is based in NLP uses for Sentiment Analysis **
NPL_ServiceVersion	Service Version ** Value is based in NLP uses for Sentiment Analysis **
NPL_Language	Language ** Value is based in NLP uses for Sentiment Analysis **
Default_Delay	Default delay value Data Type :- Integer Value :- Time in millisecond Eg :- 5000
TimeoutS	Small Timeout Value Data Type :- Integer Value :- Time in millisecond Eg :- 2000

	Medium timeout value Data Type :- Integer Value :- Time in millisecond Eg :- 5000
TimeoutM	
TimeoutL	Large timeout value Data Type :- Integer Value :- Time in millisecond Eg :- 10000

Table: - Config Values

5. Mail a product name to configured email id.
   a. Use following mail template
   b. Subject :- Product review
   c. Body :-

      {Product Name}
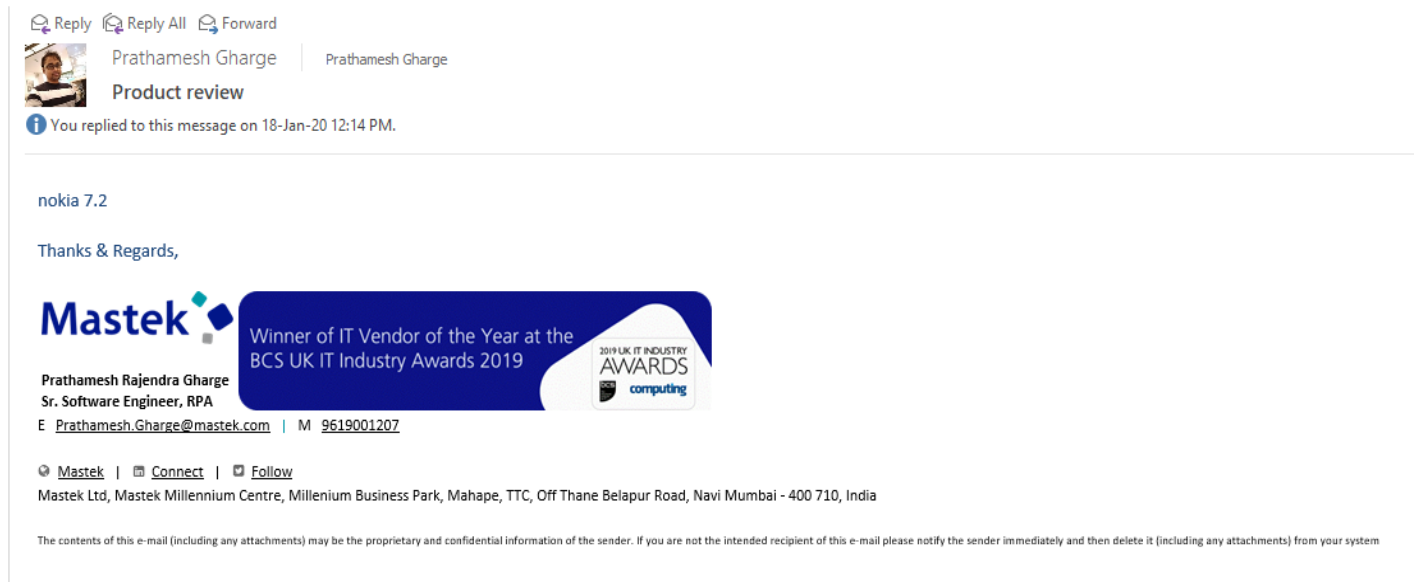
      Thanks & Regards,
      {Signature}

Fig. Sample Email Format

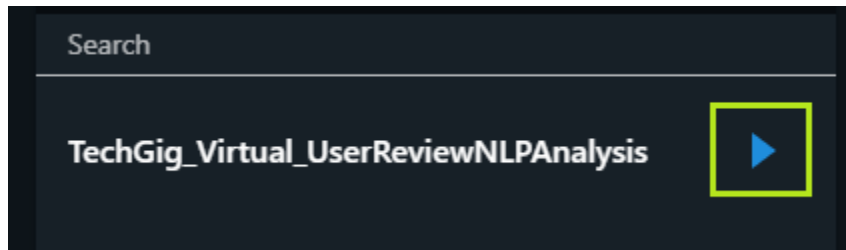6. Run the bot from UiPath Robot.

Fig. UiPath Robot Run Process

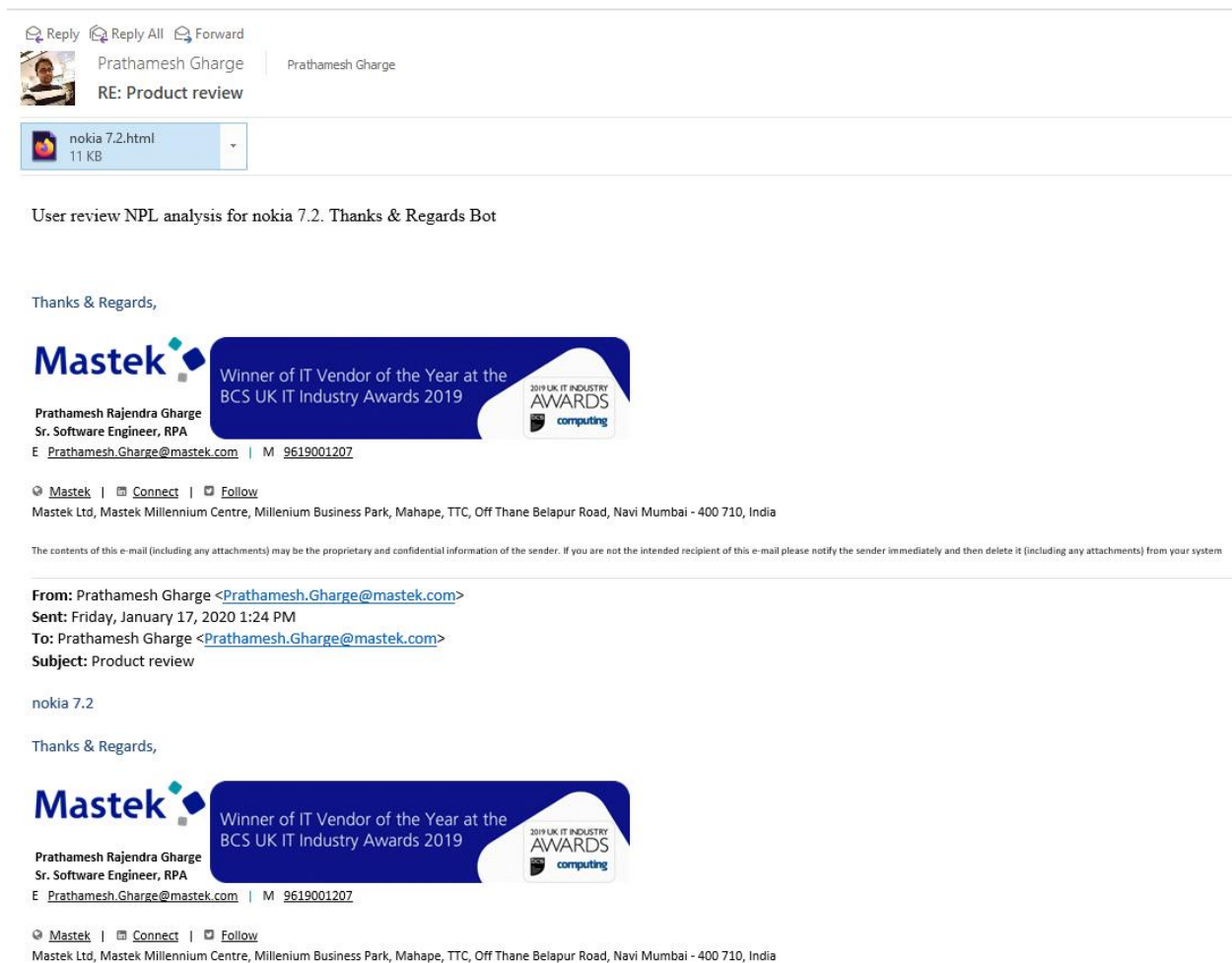7. Check Analysis Report (Open the attached file using browser application)
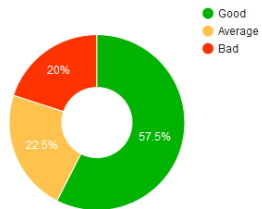

Fig. Bot's Reply on Email

User Review Analysis

nokia 7.2

NLP Sentiment Analysis

Legend:
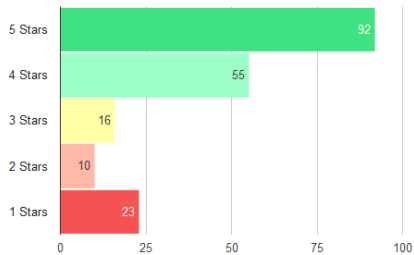- Good
- Average
- Bad

20%
57.5%
22.5%

NLP Key Phrase - Pros

- phone
- Nokia
- camera
- •
- features
- night mode
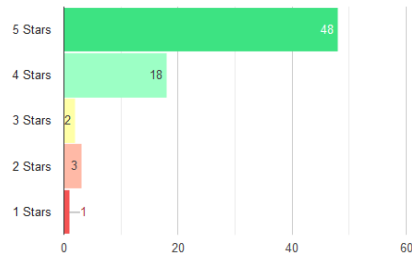- photos
- word
- old Nokia Lumia
- online user guide

NLP Key Phrase - Cons

- phone
- Nokia
- everytime i
- picture
- recieve
- notification
- app
- camera
- mi phones
- Nokia's windows phones

User Ratings - Amazon

5 Stars	92
4 Stars	55
3 Stars	16
2 Stars	10
1 Stars	23

User Ratings - Google

5 Stars	48
4 Stars	18
3 Stars	2
2 Stars	3
1 Stars	1

User Ratings - Flipkart

5 Stars	1,162
4 Stars	476
3 Stars	139
2 Stars	36
1 Stars	157

Fig. NLP Analysis Report