USE CASE TEMPLATE

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| --- | --- | --- | --- |
| Use Case ID: | 6 | | |
| Use Case Name: | Categorizing collected data | | |
| Created By: | Shahryar and Vaibhav | Last Updated By: |  |
| Date Created: | 18.02.2024 | Date Last Updated: |  |

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| --- | --- |
| Actors: | Application Admin |
| Description: | Categorizing collected data according to their industry |
| Preconditions: | Data is scraped and collected as json file |
| Post conditions: | Data will be categorized based on industry |
| **Normal Flow:** | 1. Dataset is created with the help of existing data. 2. Dataset is divided into training and testing dataset 3. Apply Multinomial Naïve Bayes algorithm to classify data 4. Test the data. 5. Predict the category of new dataset. |
| **Alternative Flows:** | A1.1 Add more data to the current dataset.  A1.2 Train the model again to improve accuracy. |
| Exceptions: | Accuracy of algorithm may be less |
| Includes: |  |
| Priority: | 1 |
| Frequency of Use: | Low |
| Business Rules: |  |
| Assumptions: |  |

USE CASE TEMPLATE

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| --- | --- | --- | --- |
| Use Case ID: | 2 | | |
| Use Case Name: | View Business News Insights | | |
| Created By: | Shahryar and Vaibhav | Last Updated By: |  |
| Date Created: | 18.02.2024 | Date Last Updated: |  |

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| --- | --- |
| Actors: | Application Admin, User |
| Description: |  |
| Preconditions: | Analysed news sentiments |
| Post conditions: | User is able to see the business insights |
| **Normal Flow:** | 1. User login to the platform 2. User can filter the trends 3. User can see the outcomes |
| **Alternative Flows:** | A 1.1. User needs to register before logging in |
| Exceptions: |  |
| Includes: |  |
| Priority: | 3 |
| Frequency of Use: | High |
| Business Rules: |  |
| Assumptions: |  |

USE CASE TEMPLATE

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| --- | --- | --- | --- |
| Use Case ID: | 5 | | |
| Use Case Name: | Analysing news sentiments | | |
| Created By: | Shahryar and Vaibhav | Last Updated By: |  |
| Date Created: | 18.02.2024 | Date Last Updated: |  |

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| --- | --- |
| Actors: | Application Admin |
| Description: | Analysing the sentiment of the collected and categorized news data |
| Preconditions: | Data is categorized according to industry |
| Post conditions: | Sentiment score will be available for each industry. |
| **Normal Flow:** | 1. New data is categorized by classification model 2. The categorized data is feeded as input to sentiment analyser 3. The sentiment score is provided for each description. 4. We take weighted mean of each news per industry. |
| **Alternative Flows:** |  |
| Exceptions: |  |
| Includes: |  |
| Priority: | 3 |
| Frequency of Use: | High |
| Business Rules: |  |
| Assumptions: |  |

USE CASE TEMPLATE

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| --- | --- | --- | --- |
| Use Case ID: | 1 | | |
| Use Case Name: | Collecting data from Google News. | | |
| Created By: | Shahryar and Vaibhav | Last Updated By: |  |
| Date Created: | 02.02.2024 | Date Last Updated: |  |

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| --- | --- |
| Actors: | Application Admin, Social Media |
| Description: | Scraping Google News and gather headlines from multiple news channels. |
| Preconditions: | Capturing a post title |
| Post conditions: | Storing the comments in a json format |
| **Normal Flow:** | 1. Create a Google News scrapper. 2. Provide a relevant link of a post to scrape. 3. Get the headlines from the post. 4. Store the comments in json format. |
| **Alternative Flows:** | A 2.1. Prompt to provide a valid link. |
| Exceptions: | No headlines available on a post |
| Includes: |  |
| Priority: | 1 |
| Frequency of Use: | High |
| Business Rules: | Google News should be legal to scrape |
| Assumptions: |  |

USE CASE TEMPLATE

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| --- | --- | --- | --- |
| Use Case ID: | 3 | | |
| Use Case Name: | View Charts on current trends | | |
| Created By: | Shahryar and Vaibhav | Last Updated By: |  |
| Date Created: | 18.02.2024 | Date Last Updated: |  |

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| --- | --- |
| Actors: | Application Admin, User |
| Description: |  |
| Preconditions: | Analysed news sentiments |
| Post conditions: | User is able to see the charts on business trends |
| **Normal Flow:** | 1. User login to the platform 2. User filters the trend based on different criteria 3. User selects “view chart” option 4. Chart is displayed |
| **Alternative Flows:** | A 1.1. User needs to register before logging in |
| Exceptions: |  |
| Includes: |  |
| Priority: | 4 |
| Frequency of Use: | Moderate |
| Business Rules: |  |
| Assumptions: |  |