SRS Document for Twitter messages data using NLP

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1. What is this system?

This system is a tool that can recognize the tone/type of the message by dividing it into 3 parts :   
- positive

- negative

- neutral

2. What does it do?

- Input: You type or paste some text.

- Processing: The system uses a pre-trained machine learning model to analyze the text.

- Output: It tells you the tone of the message.

3. Supported Languages

It has been trained and tested based on English only.

4. How does it work?

- The system uses a dataset of text samples from the dataset.

- It categorizes the text into 3 types.

- A machine learning model (Multinomial Naive Bayes) is trained to predict the tone.

5. Key Features

- Easy to use: Just type text, and it will tell you the tone or meaning of the message.

- Fast: It gives results in less than a second.

- Accurate: It is trained to be over 90% accurate

6. Limitations

- It only works for languages it has been trained on.

- If the text is very short or mixed, it might not work perfectly.

7. Future Improvements

- Add more languages.

- Use more advanced AI models for better accuracy.