**Requirements analysis**

The purpose of the application is to read a text representing an article, analyse and correctly identify the status of following a hyperpartisan argumentation in the previously read text and showing this status to the one who added the text.

Limits: users may only add a text for analysis and start the analysis process, any other action (like viewing articles analysed in the past) being unaccessible to them.

The objective for the following years is any user (human or automata) intending to analyse any news article for the status described above.

The client found for this application is the project coordinator, Trandabat Diana.

Requirements identification:

* Phase I: the application should be executable from the command line, require no Internet access and should be trained on a dataset to classify a given text to a status of following a hyperpartisan argumentation. The classification will be done using various heuristics like:

1. Word frequency, which requires calculating the frequency of relevant words (any word that is not an interjection, particle etc; example of irrelevant words: the, a, this etc) and/or expressions (2 or more consecutive words); based on the detection of a relevant word that appears mostly in hyperpartisan argumentations, this heuristic will consider the article to have a hyperpartisan argumentation and vice versa. or propaganda and/or subjectivism detection
2. Sentiment detection: every relevant word will have attached a „sentiment score” that could be either positive or negative; this heuristic works by calculating the total positive and negative score, creating a mean afterwards. If the mean is close to 0, the article is considered to have a neutral argumentation; otherwise, if the score is at a significant distance from 0 (the starting distance will be considered 10), the article will be considered to have a hyperpartisan argumentation
3. Stance detection for identifying the text that has an argumentative structure, which will then be classified by a criteria (TBD) to a neutral or hyperpartisan argumentation

These heuristics will have attached a weight function that will help to compute the final result, represented as either „Yes” or „No”(where „Yes” means that the article follows a hyperpartisan argumentation and „No” means that the article follows a neutral argumentation), and will display the result in the command line

* Phase II: the application should have a Web interface containing the following: a field used to submit a text for analysis, a button to start the analysis of the text and the result of the analysis. The frontend will be implemented in vue.js, and the backend will be implemented in node.js

(Requirements specification:)User requirements: the system will be available for usage on the Web for at least one month and give the result of the analysis within 10 seconds

Restraints: users won’t be able to modify either the functional or the visual part of the system

Use scenarios (for phase I):

Scenario 1.(human user/semeval evaluator): launch the app -> write/paste the input text -> receive the result

Scenario 2.(human user/semeval evaluator): launch the app -> write no text -> receive the error message

Use scenarios (for phase II):

Scenario 1.(user): access the Web page -> write/paste the input text -> click the „analyse” buton -> receive the result

Scenario 2.(user): access the Web page -> click the „analyse” buton -> receive the „No text inserted!” message