# USE CASE + ACCEPTANCE CRITERIA

Use case 1	UI
Brief description	The user enters the sentence to be analyzed and ticks the box to show the
	syntactic tree.
actor	User
Special	The user input must be valid, if it's not-valid (blanks, non-existent words,
Requirements	punctuation) the system requires a new input.
Flow of events	User launches the application $\rightarrow$ UI opens $\rightarrow$ User enters the input sentence $\rightarrow$
	check for non-valid input $ ightarrow$ provide output (syntactic tree, output sentence,
	toxicity level, Results.txt)
Pre-condition	Valid input
Post-condition	The user sees the results and the syntactic tree

### **Acceptance Criteria:**

- Given the user accesses the application
- When they type a sentence into the input field
- Then the sentence is saved and becomes available for analysis

Use case 2	Вох
Brief description	The user can tick the box to see the syntactic tree
actor	user
Special	The UI must be lunched correctly
Requirements	
Flow of events	User ticks the box → UI submits the request of syntactic tree to App → App
	generates the syntactic tree using Google API → UI shows the syntactic tree
Pre-condition	The UI is lunched
Post-condition	If the box is ticked, UI shows the syntactic tree.

### **Acceptance Criteria:**

- Given UI lunched
- When the user ticks the box
- Then UI shows the syntactic tree

Use case 3	Analyze syntax
Brief description	The App access the Google API (Analyzing Syntax) to analyze correspondingly
	the input sentence and the output sentence
actor	Арр
Special	
Requirements	The user must have working Google API credentials
Flow of events	User enters a valid input sentence → Google API extracts phrases from the
	input sentence → The phrases are sent to App
Pre-condition	The user must have working Google API credentials

Post-condition	The input sentence is split in phrases
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### **Acceptance Criteria:**

- Given a valid input sentence
- When the app sends a request to the appropriate Google API
- Then the API returns analysis results, which are processed by the app

Use case 4	Toxicity
Brief description	The app sends the output sentence to Google's Moderate Text API to determine the level of toxicity.
Actor	Арр
Special	The user must have working Google API's credentials.
Requirements	
Flow of events	App generates an output sentence → Google API calculates the toxicity level
	(using Moderate Text) $\rightarrow$ returns value to App $\rightarrow$ UI shows results
Pre-condition	App generates an output sentence
Post-condition	App receives the toxicity level

### **Acceptance Criteria:**

- Given an output sentence
- When the sentence is ready
- Then the app sends it to Google's Moderate Text API
- And receives the toxicity level

Use case 5	Word List
Brief description	The application loads lists of nouns, adjectives, verbs, adverbs, articles, and
	pronouns from their corresponding .txt files located in the resources folder.
	These lists are then used to generate nonsense sentences
actor	Арр
Special	Each file.txt must exist and contain at least one valid word per category.
Requirements	Each file.txt must be correctly loaded in the source code
Flow of events	The app interacts with WordList> WordList accesses the resources directory -
	->the App creates a list of Nouns,verbs, to put in the sentence structure for
	the output sentence
Pre-condition	
Post-condition	The application holds in memory categorized lists of words ready for use in
	generating output

#### **Acceptance Criteria:**

- **Given** the .txt files contain lists of words ( nouns, verbs,...)
- When WordList gives the base of Noun, Verb,.. object
- Then App creates a list of Nouns, Verbs,...
- AND loads it in the sentence structures chosen

Use case 6	Арр
Brief description	It's the main core of the system, it deals with the basic logic that parses the
	input sentence and provides an output to UI
actor	Арр
Special	The user must insert his correct and valid API Google Cloud's credentials in the
Requirements	correct file (credentials.json) so that the App can have access to the Google's
	API
Flow of events	Input sentence $ ightarrow$ analyze sentence with google API $ ightarrow$ randomly select words
	and sentence structure → create output
Pre-condition	Correct credentials
Post-condition	The UI receives the generated output

## **Acceptance Criteria:**

- Given the valid sentence and valid Google API credentials
- When sent to the Google Cloud Natural Language API for syntactic analysis
- Then provides the output to the UI

Use case 7	Resources
Brief description	The app randomly selects: nouns, adjectives, verbs, adverbs, articles,
	pronouns, sentence structures; from correspondingly: Nouns.txt,
	Adjectives.txt, Verbs.txt, adverbs.txt, Articles.txt, Pronouns.txt, Sentence
	Structures.txt.
actor	WordUtil
Special	The files must be not empty
Requirements	
Pre-condition	The App needs to loads the sentence structure template with the selected list
	of noun,verbs,
Post-condition	The output sentence template is loaded with all the words needed

### **Acceptance Criteria:**

- Given the app needs to generate new content
- When it accesses the word libraries
- Then it randomly selects elements from the corresponding files for sentence construction

Use case 9	User
Brief description	The user lunches the app and enters an input sentence and if he wants ticks
	the box for the syntactic tree. Then the system provides the output
actor	user
Special	The user must be able to lunch the app
Requirements	
Pre-condition	The User sentence is entered and analyzed only if valid
Post-condition	The output is printed

### **Acceptance Criteria:**

- Given Valid Input Sentence
- When The App is lunched
- Then the output is shown to the user