# Repository requirements document "foreign-language"

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## INTRODUCTION

This document specifies the "foreign language" system, providing developers with the necessary information for the design and implementation, as well as for testing and system approval.

#### 1.1 Full view of this document

This introduction provides the information needed to make good use of this document, explaining its objectives and the conventions that have been adopted in the text, as well as contains a list of references to other related documents. The other sections present the specification of the "foreign language" system and are organized as described below.

- Section 2 System Overview: provides an overview of the system, characterizing its scope and describing its users.
- Section 3 Functional requirements (use cases): it specifies all the functional requirements of the system, describing the flows of events, priorities, actors, inputs and outputs of each use case to be implemented.
- Section 4 Non-functional requirements: specifies all non-functional system requirements, broken down into usability, reliability, performance, security, distribution, adequacy, and hardware and software requirements.
- Section 5 User Interface Description: displays drawings, figures, or sketches of system screens.

### 1.2 Conventions, terms and abbreviations

The interpretation correct this document exige the knowledge of some conventionals and specific terms, that are describes next.

#### 1.2.1 Identification of requirements

By convention, the reference to the requirements is made through the name of the subsection where they are described, followed by the identifier of the requirement, according to the scheme below:

[requirement subsection.identifier name]

For example, the requirement [Data Retrieval.RF016] is described in a subsection called "Data Retrieval", in a block identified by the number [RF016]. The nonfunctional requirement [Reliability.NF008] is described in the section on non-functional reliability requirements, in a block identified by [NF008].

#### 1.2.2 Priority of requirements

In order to establish the priority of the requirements, the denominations "essential", "important" and "desirable" have been adopted.

- Essential is the requirement without which the system does not go into operation. Essential requirements are requirements that must be implemented certainly.
- Important is the requirement without which the system goes into operation, but in an unsatisfactory way. Important requirements must be implemented, but if they are not, the system can be deployed and used anyway.
- Desirable is the requirement that does not compromise the basic functionalities of the system, that is, the system can function satisfactorily without it. Desirable requirements are requirements that can be left for later versions of the system if there is not enough time to implement them in the version being specified.

#### 1.3 References

Documents related to the "foreign-language" system and / or mentioned in the following sections:

## SYSTEM OVERVIEW

The "foreign language" system is a desktop application that aims to identify patterns in the English language. The importance of the application for the users is characterized in order to transmit knowledge about the most used tags, facilitating the language learning. In addition to creating a database that can be used in the future in other applications.

### 2.1 Abragency and relational systems

The "foreign-language" system will receive text entries, and then perform the pattern search based initially on the number of word repetitions and later of the combination repeats. Each text insertion, the words, and possible combinations will be transferred to a database, where another section of the application is responsible for selecting the main sentences obtained and also responsible for returning this information to the user.

It is important to understand that the application will not make available the database created by a user to the other users of the system, that is, each user will have their personal bank of words and combinations based on their inserted texts. This division is taken in order to simplify the initial development of the system, however, the system will be developed in order to facilitate future evolutions, such as database sharing.

List and briefly describe the other systems with which this system should interact, explaining, in a general way, the roles of each and the means of communication between them.

## 2.2 User description

The application will be used by ordinary users<sup>1</sup>. So , from the definition of users, it is identified that the main difficulties of the user are linked to

<sup>&</sup>lt;sup>1</sup>The system will be constructed so the user does not need to have specific knowledge present in the area of information technology.

the vocabulary, making it difficult to identify content  $words^2$  and functions  $words^3$ , implying in this way, in the difficulty of understanding the full significate of a prhase.

<sup>&</sup>lt;sup>2</sup>Content words are the most important words in a sentence. They express the idea of what we mean.

<sup>&</sup>lt;sup>3</sup>Function words are words that help us connect important information. They are the words that make the sentences grammatically correct.

# FUNCTIONAL REQUIREMENTS

# NON-FUCTIONAL REQUIREMENTS

# USER INTERFACE DESCRIPTION