**EDM1142 LAB 4**

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**Requirements Analysis**

It has been notice after researches of duration of 1 year that about 60% of young Cameroonians nowadays don’t know how to speak their mother tongue with a majority of west (Bamileke’s) youths (about 40%).

As a result it gave rise to the conclusion there is a high need in tools (linguistic tools) capable of helping these youths learn their mother tongue especially the west (Bamilekes). As a result gave rise to the conclusion that there is a high need of software capable of helping these youths learn their mother tongue. The below graphic illustrate the above notes;

**Software Requirement Specification Sheet**

**1. Introduction**

**1.1 Purpose**

The main purpose of this document is to provide software requirements specification (SRS) based on the ISO/IEC/IEEE29148:2018 standard.

**1.2 Scope**

This document specifies requirements for a simple application for learning software of the bamileke mother tongue.

This application allows users to:

* To choose which bamileke mother tongue of the west region to learn
* To choose suitable hours for courses
* To have at least 10 minutes of lectures and exercises every 12 hours
* To learn with the use of podcasts
* To learn more than 100 words per week
* How to use the mastered words in sentences
* Teach technics to memorise words
* To import MS word documents for translation

This application stores the stages which have been completed by the user online with the server.

The application provides services offline without connection to any server.

**1.3 Product perspective**

**1.3.1 System interfaces**

The application runs in the latest version of android’s system, IOS, Mac OS, Chrome, Firefox browser on Windows and Linux.

**1.3.2 User Interfaces**

The application GUI provides GUI provides toolbars, buttons, panes, grids allowing for easy control of the keyboard and mouse.

**1.3.3 Hardware interfaces**

**1.3.4 Software interfaces**

The application allows import a structured MS word document via HTML data format.

**1.3.5 Communication Interfaces**

**1.3.6 Memory constrains**

Stages completion is stored in the server when the device is online.

**1.3.7 Operations**

The operations are rapid depending on the network which affects the connections with the servers.

**1.4 Product functions**

Product functions as summarised in 1.2. User Stories of needs documents.

**1.5 User characteristics**

* The user should be interested ith the application
* The user should try and complete at least a stage/ level per day.

**1.6 Limitations**

* There will be a limited time to complete each stage
* Functionalities given by the application offline will not be as good compared to that of online functionalities.

**1.9 Acronyms**

**GUI**: Graphical User Interface

**HTML**: Hypertext markup language

**2. Requirements**

**2.1 Eternal interface**

**2.2 Functions**

**2.2.1 File Operations**

**2.2.1.1 Create document**

The application shall allow users to create a new empty document.

**2.2.1.2 Open File**

The application shall allow users to open MS Word documents for translation.

**2.2.1.3 Save Local File**

The application shall allow users to save the opened document into a file.

**2.2.1.4 Export**

The application shall allow users to export the translated document view to HTML

**2.3 Performance requirements**

**2.3.1 Start-up time**

The application should open and display within 10s.

**2.3.2 Edit response time**

The application should display updated values within 1s after user triggers the edit operation.

2.4 Software system attributes

The application shall run in latest versions of chrome or firefox browsers.