# Project Initiation Document

## Language Learning Application

### Objectives

Business Objectives:

* Improve user’s knowledge of foreign language vocabulary by at least 45%.
* Reduce the time required to memorize words by 27%.

Project Objectives:

* Implement a small-scale word management system for personal use.
* System should be delivered within 4 weeks.
* System will cost approximately 1 hour of the supplier’s time per every day or so.
* Systems quality will be ensured with proper testing, and careful planning of the overall work undertaken.

### Scope

Boundaries:

* System will include the basic CRUD for a word.
* System will include a way for the words to be categorized by a specified property.
* System will include by default display words belonging to different languages separately as to avoid confusion.
* System will not provide the words translations.
* System will not auto-detect the language of a certain word, this needs to be added manually by the user.
* System will not provide security through authentication and authorization, it is deemed the user’s responsibility to protect their data from unwanted access.
* System is designed for personal use therefore only one user per device is supported.

Activities

* The project team will provide the (hopefully) working code for the system and they will also include instructions for a user to install it one their device.
* The project team will not be responsible for properly setting up the users working environment, nor for installing the system on the user’s device unless the user asks nicely.
* The project team will not provide the hardware required to use the system or foreign language lessons.

Deliverables:

* The code for the (Angular) frontend and the backend (API) of the system, as well as project documentation, installation instructions and other useful information such as known bugs etc.

### Constraints

The project will follow an agile development process such as Kanban.

The system will consist of two main parts: the frontend and the backend of the application. The frontend will be built using the latest version of Angular and Bootstrap for responsiveness.

The backend will be build using Node.js with Express.js for the server and it will use a local MongoDB database for storing the words.

### Authority

In the context of this small software development project, the customer and the supplier are represented by the same person who will have the following responsibilities:

* To agree the PID.
* To make resources available to the project.
* To keep the project going by planning and scheduling the working hours required.
* To maintain the morale of the team when times are hard.
* To accept the finished system.

### Resources

The following resources are made available for this project:

* Developer time
* Materials required for learning about certain topics.
* A strong desire to work on the third version of this passion project.