Interim Report

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# Introduction

# Outline of Requirements

As stated in the brief, we are required to do the following:

* Create a dictionary with an appropriate data structure. We are going to use a Trie Tree (also known as a digital tree or prefix tree), where nodes are not associated with a key, but nodes are defined by a single character. Words are built by traversing along individual letters and the translation is obtained at the final node required.
* Translate individual words.
* Translate phrases. We have opted to prioritise phrases during translation.
* Load a file and apply a translation.
* Allow the user to add words to the dictionary.
* Allow the user to remove words from the dictionary.
* Allow the user to display the dictionary.
* Produce a standalone executable.

We can also:

* Produce a Graphical User Interface
* Include methods of translating grammar correctly.
* Include more languages.
* Optimise our methods of searching and comparing data (for example, we aim to optimise the Trie Tree by not storing all 26 letters as a node, and only creating them when they are needed).

# User Interface Mockups

# Pseudo-code

# Task Allocation

We are opting to use GitHub (<https://github.com/CarimA/AC12001-Team-Project-Translator>) for version control and team management