

IPO Chart

Component: Application manager

Module Name: Translator

Inputs	Process	Outputs
engWord	Searches for language file matching language , then searches for EngWord. Returns matching word if found.	translatedWord or errorNum
language		

Inputs:

engWord – the English word the user wants to translate into a certain language

language – the language the user wants to translate into

Process Description

The translation service will look for a language file whose name is **language**. If one does not exist, return error message number **errorNum** [TBD]. Otherwise, search within file line by line for **engWord**. If not found, return error message number **errorNum** [TBD]. Otherwise, return corresponding **translatedWord**.

Outputs

If a matching language file and translation exists, the module will output the translated word. Otherwise, the appropriate error message number will be output.

Pseudocode

```
public Translator(String word, String language){
    this.word = word;
    this.language = language;
}
public String translate(){
    new File file = File("SystemPath\" + this.language +
    ".txt");
    try{
        Scanner scan = new Scanner(file);
        catch Exception e{
            return "Error: language not found";
        }
        while scan.hasNextLine{
            String[] line = scan.nextLine.split(,);
            if line[0] == this.word{
                return line[1];
            }
        }
        return "Error: word not found";
    }
}
```