# General Improvements to be Made

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| --- | --- | --- | --- |
| **Item** | **Details** | **Status** | **Author** |
| Improve retail assistant |  | Not started |  |
| Add a conversation component |  | Not started |  |
| [Package all dependencies with the project](#_Package_all_dependencies) | Ensure that project can be installed on a new computer without an expert required to be present for install | v0.01 | Andreas Maude |
| [Add Mac compatibility](#_Add_Mac_Compatibility) | Ensure that robot demo is runnable from Mac as well as Windows | v0.01 | Andreas Maude |
| [Add a configuration file](#_Configuration_File) | Functionality to personalise robot demo for each demo separately | v0.01 | Andreas Maude |
| Create a scripted demo template | Create a basic code template to easily fill in scripted conversations, dances, etc. | Not started |  |
| StT Data Transfer | Have speech to text send data directly to Python script rather than download .txt files | Not started |  |
| Delete transcript .txt files | Delete transcript .txt files as they are read | Not started |  |
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# Specific Functional Improvements

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| **Function** | **Details** | **Status** | **Author** |
| RepeatLastSentence | Naomi can repeat the last thing the user said, or the last thing that Naomi said | Not started |  |
| Double NLC | Increase flexibility by having NLC run more than once if it is deemed appropriate | v0.01 | Andreas Maude |
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# Details on Improvements

## Configuration File

### v0.01

* Configuration file added that contains details such as robot speech speed, eye colours, etc.
* Is loaded from a .txt file into a python dictionary and saved as a .pkl file
* .pkl file is read from master on every new iteration of the program so that robot can be configured for each run separately; previous configuration is saved

### Possible Further Improvements

* Increase number of configurable parameters
* Currently not working
  + Fix it

## Package all dependencies with the project

### V0.01

* Software installers have been downloaded and placed in folder “Software” in the main project folder
* Software is up-to-date as of 1/7/16

### Further Improvements

* Create an install script that automatically installs all required dependencies

## Add Mac Compatibility

### V0.01

* Mac compatibility has been introduced
  + Tested for program without robot connected

## Double NLC

With each NLC response, return a number that defines whether or not a second NLC should be run on that command. For example, if the request is ‘lie down on your back’, first recognise that it is a lie down command, then run a second NLC with another ‘hidden\*’ classifier that determines whether or not the command is to lie down on the belly or on the back.

\*By ‘hidden’ classifier I mean a classifier that is not directly targeted by the phrase, but is used in conjunction with a direct classifier. The idea of a ‘hidden’ classifier could reduce clutter.