**London Trip Information Advisor**

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**Aims:**

This project is to build a natural language generation application for advising a user about London trip information on a website. It involves natural language processing and natural language generation. This system will include following steps:

1. Identify users’ questions.

2. Collect the required trip information from the Internet or from a database.

3. Translate the keywords or phrases (machine readable language) that get from the last step to an answer with complete sentences (human readable natural language).

To implement these functions, Natural Language Toolkit (<http://www.nltk.org/>) is needed. It is a platform for building Python programs to work with human language data. Therefore, I will use Python as the main programming language to build this application.

**Objectives:**

The requirements of the London Trip Information Advisor are shown in the MoSCoW table below:

| Objectives | Importance | Progress |
| --- | --- | --- |
| A valid source of London trip information (From database, search engine or books). | Must | Done |
| The ability to identify and understand users’ questions. | Should | Done |
| The ability to find the potential answer from the source. | Must | Done |
| The ability to translate the potential answer to an answer written in natural language. | Should | - |
| A website user interface to contain this system. | Must | - |
| Put the website on a server. | Could | - |
| A beautiful website user interface. | Could | - |

**Deliverables:**

* An application design specification.
* The source code and the user document of the website application.
* A strategy for testing and evaluating the application.

**Work plan:**

* Project start to end October (4 weeks) Literature search and review.
* Mid-October to end October (2 weeks) Find a valid source and start system implementation.
* November to mid-February (14 weeks) System implementation.
* Mid-February to mid-March (4 weeks) System testing and evaluation.
* Mid-March to end of April (6 weeks) Work on Final Report