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| **Using Natural Language Processing**  **to Map Character Interations** | | |
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* **Project statement**

The aim of this project is to create a program that will analyze the text of a novel, short story or play/screenplay using Natural Language Processing (NLP) techniques, such as Named Entity Recognition (NER) and Coreference Resolution. Using these techniques the program will learn to differentiate or recognise which words are the names or pronouns referring to specific characters. The program will then create a graph of the interactions between the various characters over the course of the source text.

* **What research has been done and what are the outputs?**

**Background research**

**Alternative existing solutions to the problem you are solving**

(Focussing on the architecture and user/functional requirements

**Technologies researched**

What candidate technologies did you examine? What criteria did you use for selection? What experience you have in the chosen technologies? If new to you, what have you done to familiarise yourself with the new technology?

**Other relevant research done**

e.g. interviews/ surveys

**Resultant findings/requirements**

For example, a list of requirements for your solution – based on your research and analysis

**Bibliography (research sources)**

* **Analysis: Describe clearly what your solution will do**
* **Approach and Methodology**

What is your approach to this project? Are you using any particular software methodology? Eg. Are you delivering design/ code in phases, or are you completing all design up front, followed by all coding? Have you some sections lower priority if time runs short?

* **Design**

**Technical architecture diagram:**

Insert the architecture for your solution

**Other design documents**

Insert other design artefacts that explain your system: e.g. Use cases/ ERDs/ Class diagrams

* **Prototyping and Development**

Explain exactly what prototyping and development you have completed

* **Testing**

Explain your planned testing approach: For example: who will be involved, what test scripts are planned, how will the testing be executed.

* **Issues and risks**

Explain the main issues / challenges that are unresolved on your project. – and your suggested approach to solving them. This is a critical part of your report to show that you understand what is required to complete the project.

* **Plan and future work**

What are the key deliverables and date for the remainder of the project?

* **Conclusions**

Identify interim conclusions viz. summary of findings thus far, plausibility of the proposed system and personal development conclusions.