**Analysis**

Fully or nearly fully scoped analysis of a real problem, presented in a way that a third party can understand.

Requirements fully documented in a set of measurable and appropriate specific objectives, covering all required functionality of the solution or areas of investigation.

Requirements arrived at by considering, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects.

Problem sufficiently well modelled to be of use in subsequent stages.

**Research Methods**

**Background to Problem**

**Description of the Current System**

The current way of converting multiple music macro language like files into a single multi-track MIDI file is to step through by hand and enter the information as if writing a new MIDI file. This is tedious, unreliable and slow.

**Identification of Potential Users**

There is a small, but dedicated, remaining group of musicians that still use the music macro language

**Identification of User Need and Limitations**

**Data Flow Diagrams**

**Use Cases**

**Objectives of the Project**

* Both the mmltomidi and catmidi programs should have the terminal interface and functionality detailed in the project specification document
* The mmltomidi program should be written to give informative errors when it encounters syntax errors in the input file
* Unit testing should be used during the development of the programs
* A consistant programming style should be used for all the code written

**Potential Solutions**

**Chosen Solution**

**Other Evidence**