

CHAPTER 2

REQUIREMENT SPECIFICATIONS

2.1 FUNCTIONAL REQUIREMENTS

- User input.
- Command Line Interface (CLI)
- Parsing json file.
- Closest matched output.

2.2 NON-FUNCTIONAL REQUIREMENTS

- **Performance**

The performance is relatively better than compared to words searched for their meanings across the network because the json file is stored locally and accessed easily.

- **Reliability**

The program shall be robust enough to have a high degree of fault tolerance. The program should not crash and shall identify the invalid input and produce a suitable error message. It shall be able to recover from hardware failures, power failures and other natural catastrophes and rollback the databases to their most recent valid state.

- **Usability**

The program provides easy way for the user to access the software as it is built into an executable file, so that the users do not have to learn a new style of interaction. Any notification or error messages generated by the game shall be clear, succinct, polite and free of jargon

2.3 DOMAIN CONSTRAINTS

- I/P should be valid English word.
- I/P should be single word not sentences.
- Suggestions of alternate words are provided.
- Speed is accurate.