

2. REQUIREMENTS ELICITATION

2.1. COMPETITORS ANALYSIS

Before you build your product, you need to research the market to learn about the strengths and weaknesses of existing similar products.

- Identify competitors.
- Identify important features that differentiate each competitor.
- Compare your product to the others in the market.

Compare the features of similar existing systems using the table below. Add a "✓" in the cell, where a specific feature is available in that system.

	Sys1	Sys2	Sys3	Your system
F1				
F2				
F3				
F4				
F5				
...				

2.2. INTERVIEW

In this subsection you should show the interview transcript that you have used to collect the interview details, and a summary of the interview (*at least five questions*).

2.3. QUESTIONNAIRE

In this subsection, you should show:

- A sample of the analysts' questionnaire (*at least five questions*).
- Questionnaire results analysis table.
- A summary of the outcomes.

2.4. USER CHARACTERISTICS

This subsection should describe those general characteristics of the intended users of the product including educational level, experience, and technical expertise. It should not be used to state specific requirements, but rather should provide the reasons why certain specific requirements are later specified in Section 3 of the document.

2.5. USER STORIES

(at least 3 user stories).

3. REQUIREMENTS SPECIFICATION

3.1. FUNCTIONAL REQUIREMENTS

User requirements should determine the different software services required by the customer, in a high-level natural language.

Then for each user requirement, system requirements should define the fundamental actions that must take place in the software in accepting and processing the inputs and in processing and generating the outputs. These are generally listed as “shall” statements starting with “The system shall”. These include

- a. Validity checks on the inputs
- b. Exact sequence of operations
- c. Responses to abnormal situations, including
 - i. Overflow
 - ii. Communication facilities
 - iii. Error handling and recovery
- d. Relationship of outputs to inputs, including
 - i. Input/output sequences
 - ii. Formulas for input to output conversion

Specific requirements format:

1. User requirement
 - 1.1.System requirement 1
 - 1.2.System requirement 2
 - 1.3.System requirement 3
 - 1.4.....and so on.

There should be at least 4 requirements and 6 at most (You will not need login nor logout).

3.2. NON-FUNCTIONAL REQUIREMENTS

This section should answer all the special constraints and considerations in the project, i.e.:

- a) What are the factors required to establish the required reliability of the software system at time of delivery?
- b) What are the factors required to guarantee a defined availability level for the entire system such as checkpoint, recovery, and restart?
- c) What are the factors required to protect the software from accidental or malicious access, use, modification, destruction, or disclosure?
- d) What are the different attributes of software that relate to the ease of maintenance of the software?
- e) What is the speed, availability, response time, recovery time of various software functions, etc.?

(at least 3 non-functional requirements).