

Ex1 – RE review

Answer the following questions:

- Q1. What are the major steps of requirements engineering? Explain each one with few words.
- Q2. What is the role of software analysts who are responsible of performing the RE?
- Q3. Give 5 different ways of requirements elicitation.

Ex2 – Requirements Gathering

Imagine you are briefly requested by a university instructor as a customer of your software development company to build a software that calculates the average of the length of the sentences in students' essays. Give 10 or more different questions you find relevant to ask your customer to further clarify her/his requirements.

Ex3 – Process Model

For each of the following projects, indicate which software development process model you would suggest to follow and argue by giving 3 reasons per project, 2 lines for each reason:

- a. A group of former developers of Amazon.com initiates a website for online sale (with possibility to try clothes by virtual reality equipment. e.g. 3D glasses). The idea is still vague, but will be clarified and directed by the reaction of the future online customers. Experienced developers have leased an old castle as a large workspace. They are eager to launch the first version of their website.
- b. Oracle wants to get into the operating system's market for mobile devices (smartphones, tablets, smart-watches...). Given the competition from Google and Apple, Oracle wants to start a comprehensive study before launching into the market. A group of software engineering researchers will take care of the project over 5 years, and will do their best to deliver the first version after 2 years and other more improved versions every next year or so.

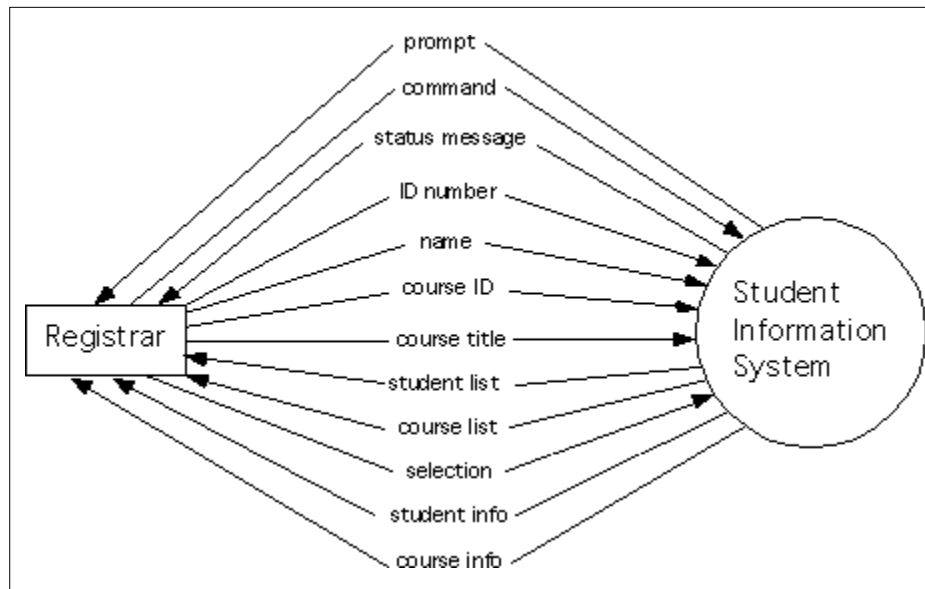
Ex4 – Functional / Non-Functional Requirements

Functional vs. Non-Functional Requirements

Statement	F	NF
The user shall be able to specify the color of the item to be bought.		
The user shall have a valid credit card number with expiry date specified.		
The user shall be able to specify the address to which the delivery will be sent.		
The user shall have a valid mobile phone number.		
The system will send SMS verification to the user that contains a code so he can be able to login.		
The system shall support 1000 transactions per minute.		
The system shall be online 24 hours a day.		
The system generates a daily report that will be sent to the manager with all the transactions information.		

Ex5 – Functional / Non-Functional Requirements

Based on the below context diagram, write down three to four complete functional requirements initiated by the registrar and three to four complete functional requirements initiated by the system.



Functional Requirements for Registrar:

Functional Requirements for SIS: