Section E

Documenting Functional Requirements
A work product is an artifact that is produced during the development.

- For example, a document or a piece of software for the other developers or for the client.

The work product to be delivered to a client is called a deliverable.

Deliverables are defined prior to the start of the project and specified by a contract binding by the developer with the client.
Requirement Analysis Document

- **Requirement Analysis Document (RAD)** is a document (deliverable) that describes the system from the user’s point of view.

- It specifies a set of requirements for features that a system must have.

- It is used as a contractual document between the developer and the client.
Work Products: Your Deliverables for this Course

- The final assignment for this course is to develop a Functional Requirements Specification Document for an information system for a selected public health problem.

- This document is a shorter version of the Requirement Analysis Document (RAD)—the contractual document between the developer and the client.
1. Introduction
   1.1 problem overview
   1.2 purpose of the system
   1.3 scope of the system and participants (actors)
   1.4 objectives and success criteria of the project
   1.5 definitions, acronyms, and abbreviations
   1.6 references

2. Current system description
   2.1 overview
3. Proposed system
   3.1 overview
   3.2 functional requirements
   3.3 non-functional requirements
      3.3.1 usability
      3.3.2 reliability
      3.3.3 performance
      3.3.4 supportability
      3.3.5 implementation
      3.3.6 interface
      3.3.7 packaging
      3.3.8 legal
3.4 System models
   3.4.1 scenarios
   3.4.2 use case model
   3.4.3 object model
   3.4.4 dynamic model
   3.4.5 user interface - navigational paths and screen mock-ups

4. Glossary
Final Assignment

- The final assignment for this course is to develop a Functional Requirements Specification Document for an information system for a selected public health problem

- This is the shorter version of the RAD document

- The due date is two weeks after the completion of the course
Final Assignment Outline

1. Introduction (problem overview)
   1.1 goal of the proposed system
   1.2 actors and scope of the proposed system
   1.3 objectives and success criteria of the project

2. System requirements
   2.1 functional requirements
   2.2 non-functional requirements

3. System models
   3.1 use case(s) description
   3.2 use case models
   - 3.2.1 use case diagram,
   - 3.2.2 work flow and data flow model
   3.3 high-level system architecture
4. Selected standards

5. Testing/evaluation plan

6. Project development timeline
You will work in groups to develop a PowerPoint presentation on the functional requirements for the information system for a selected public health problem.

The class will be able to view and comment on your presentation during Session 14.
Student Presentation Outline

- Slide 1: presentation title
- Slides 2, 3: problem overview
- Slide 4: information system goals (what)
- Slide 5: actors (perspectives) (who)
- Slide 6: functional and non-functional requirements (how)
- Slides 7, 8: use case description and diagram
- Slide 9: work flow and data flow diagram
- Slide 10: proposed system architecture
- Slide 11: selected standards
- Slide 12: hardware and software requirements
- Slide 13: system testing/evaluation plan
- Slide 14: system development timeline and deliverables
Resources


Coming up Next ...

Data Content Standards