Class Project Introduction

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ENS 509B
Class Project

→ Project Goals

- Reinforce concepts and class material about the relationship between functional and architectural intent.

→ Deliverables

- Short report - answer questions
- Questionnaire at end of project
Class Project

- Open source DSpace digital repository project
  - www.dspace.org
- Deliver in phases
- Phase I (approx. 2 weeks - finish by Thu, Mar. 23):
  - “Teams” of 1 person each
- Phase I Goals:
  - Become familiar with DSpace project documentation
  - Practice applying class concepts in an actual project, e.g.:
    - Functional Intent
    - FI relations
    - Architectural Elements
    - AE relations
    - Architectural Rationale
    - Links between Rationale and FI/AE(s)
    - Traceability between Requirements and Architecture
Class Project – Phase I

General: For each question, evaluate the suitability of the DSpace documentation (i.e., the functional intent/requirements, architecture, and rationale related docs) for answering the question, e.g.:

✈ Did the DSpace documentation include enough information to answer the question?

✈ If yes, was it easy or difficult to answer the questions using the project docs? How easy/hard (1=easy, 10=hard)? Why?

✈ If no, why not (i.e., what information was missing, etc.)?

✈ How would you change the DSpace documentation to make it easier to answer these kinds of questions? E.g.:

✈ Include more information (describe what information, how you would use it, etc.)

✈ Present the information better (e.g., include graphs and arrows connecting X and Y, better textual descriptions of Z, etc.)

✈ Any other changes?
Class Project – Phase I

→ Where did you find information about Functional Intent in the DSpace project?
   🎙 (i.e., where is DSpace functionality described – think requirements, functionality proposals, enhancement requests, wish lists, etc.)

→ What are the major elements of Functional Intent in DSpace?
   🎙 (i.e., major functionality of DSpace)

→ Describe several relationships between Functional Intent elements in DSpace
   🎙 (Examples include, e.g., any logical, functional, or temporal dependencies, etc.)
Class Project – Phase I

→ Where did you find information about Architectural Elements in the DSpace architecture?
   (i.e., where did you find DSpace architectural information)

→ What are the major Architectural Elements in DSpace?
   (i.e., give the name, and a short description of the major architectural building blocks in the DSpace architectural diagrams)

→ How are these AEs arranged
   (i.e., overall architectural style)
   *hint: look at updated L12 slides 11 and 12*

→ Describe several relationships among Architectural Elements in DSpace
   (e.g., functional dependencies among AEs, communication links, etc.)
Class Project - Phase I

→ Where did you find information about Architectural Rationale in the DSpace
  ✷ (i.e., information about why particular DSpace Architectural Elements were selected and/or arranged the way they are)

→ Describe three examples of Architectural Rationale in DSpace

  ✷ Where is the rationale documented?
  ✷ How is the rationale represented? (e.g., text, graphics, etc.)
  ✷ Does the rationale tell you anything about:
    ➢ Functional Intent element(s) (i.e., requirements) the rationale is related to
    ➢ Architectural Element(s) the rationale is related to
    ➢ Architectural Styles or Patterns the rationale is related to
    ➢ Mappings between Functional Intent elements and Architectural Elements (i.e., either FI → AE or AE → FI)