

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)