Final Review

- The final exam format will be similar to the midterm.
- Multiple choice, short questions, and scenario questions.
- Final is 30%.

Final Review

- The final exam format will be similar to the midterm.
- Multiple choice, short questions, and scenario questions.
- The final will cover everything that we studied so far, **including the materials covered in the midterm.**
- **There will be questions about the project (the assignments)**

Final Review

- Functional Requirements: I will ask you to write a BUC from a scenario.
- Functional Requirements: I will ask you to use activity diagram to describe a BUC.
- I will ask you to write atomic functional requirement using snow cards.

Final Review

- Requirements for COTS: Begin your business analysis by building a context diagram of the work area that will be affected by the COTS product.
- What is the difference between Exceptions and Alternatives?

Final Review

- Non-Functional Requirements: I will ask you short and scenario questions about Non-Functional Requirements.

  - **Look and Feel:** the spirit of the product's appearance
  - **Usability and Humanity**: the product's ease of use, and any special considerations needed for a better user experience
  - **Performance**: how fast, how safe, how many, how available, and how accurate the functionality must be
  - **Operational**: the operating environment of the product, and any considerations that must be taken into account for this environment
  - **Maintainability and Support**: expected changes, and the time needed to make them; also specification of the support to be given to the product
  - **Security**: access, confidentiality, recoverability, and audibility of the product
  - **Cultural and Political**: special requirements that come about because of the culture and customs of people who can come in contact with the product
  - **Legal**: the laws and standards that apply to the product

Final Review

- Non-Functional Requirements: I will ask you short and long scenario questions about Non-Functional Requirements.
- Three aspects of security: Access, Privacy, Integrity.
- I will ask you to write non-functional requirements using snow card from a scenario.

Final Review

- AS A [ROLE] I WANT [FUNCTIONALITY] SO THAT [REASON FOR OR USE OF THE FUNCTIONALITY].

Final Review

- Fit Criterion: I will ask you to write fit criterion examples for some functional and non-functional requirements.
- Even vague, ambiguous requirements can be measured.
- Example:

  Description: The product shall record the weather station readings.

  Rationale: The readings are necessary for preparing the de-icing schedule, and must be kept for audit purposes.

  Fit Criterion: ??

Final Review

- Rationale: good rationale is important to write good fit criterion.
- Rationale helps to prioritize the requirements.

Final Review

- Quality Gateway (accept/reject requirements):
- Within scope? Relevant? Complete? Unambiguous? Within Constrains, Solution bound? Requirement Creep? Gold Plating?

Final Review

- Quality Gateway: Quality Gateway with two people—perhaps the lead requirements analyst and a tester.
- Requirements creep refers to the process in which new requirements enter the specification after the requirements are considered complete.
- Why requirement creep happen?

Final Review

- Quality Gateway: The customer satisfaction/ dissatisfaction ratings indicate the value that the customer places on a requirement.
- Gold Plating: A low dissatisfaction rating indicates a requirement that is probably gold plating.

Final Review

- Quality Gateway: Requirement or Solution?
- The product shall have a clock on the menu bar. — solution.
- *The product shall make the user aware of the current time. —requirement.*

Final Review

- Requirement Reuse: what is a pattern?
- A pattern is a guide; it gives you a form to follow when you are trying to replicate, or make a close approximation of, some piece of work.
- Patterns and Abstraction

Final Review

- Requirement Reuse: What is domain analysis? Domain analysis is the activity of investigating, capturing, and specifying generic knowledge about a subject matter area.

Final Review

- ✦ Requirement Completeness: Fagan Inspections?
- ✦ Prioritization Factors.
- ✦ Conflict Indicators.

Final Review

- In the final, I will ask you to draw a data model using class diagram.
- Cost Analysis: I will ask you how many classes and attributes are referenced in a business use case.