SENG 350

- Software Architecture & Design

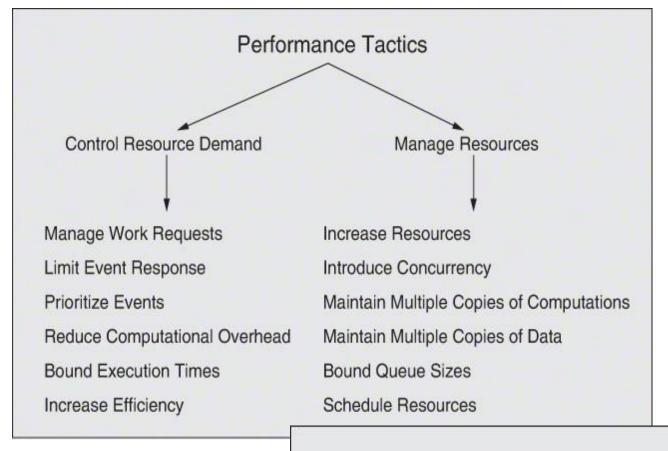
Shuja Mughal

Architectural Tactics

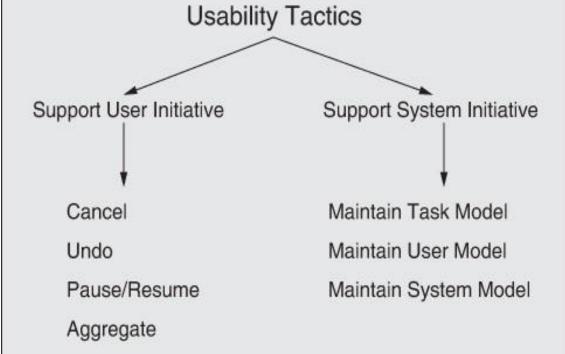
Fall 2024







Last Time





1. Construct incrementally

- This milestone is the second of three major design and construction "sprints".
- Your system is not expected to be complete at the end of milestone 3, but defined parts of the system should be complete and deployable.
- Make sure you deliberately plan the parts you want to finish in this "sprint".



2. Architectural Tactic for Availability

- Work through the checklist to decide how to address the quality attribute of availability in your system.
- Select appropriate architectural tactics to ensure availability based on your decisions.
- Your architecture should use at least five architectural availability tactics.
- Implement the code for these five architectural tactics in your project

3. Design Patterns

- Identify and plan five design patterns in your design and system.
- It should be five patterns that you implement.



4. Design Diagrams and System Description

- Update all the previous UML Diagrams along with the System Description according to feasibility and changed requirements.
- This should be in detail as to why they were changed and why they were not feasible.



5. Contributions

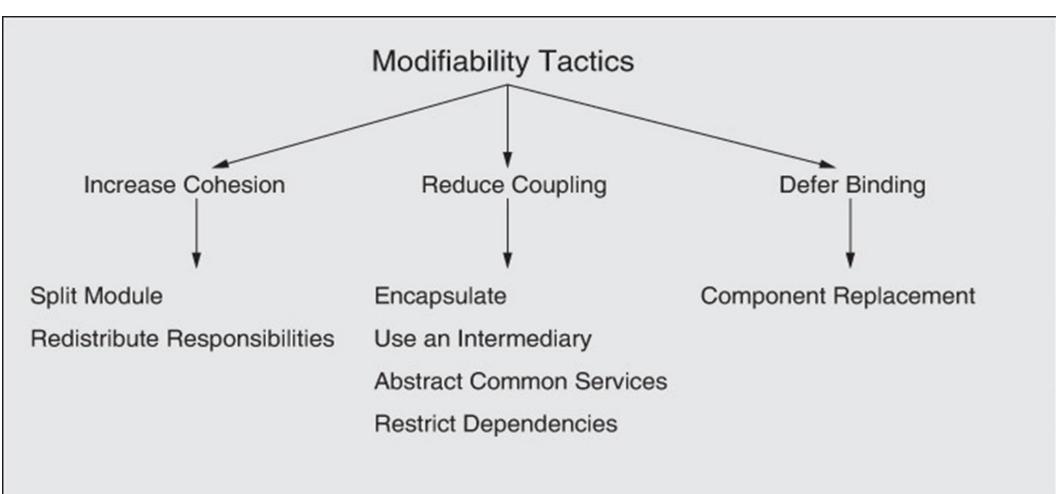
- Summarize the contributions made by each team member.
- Point out the sections/parts each group member was "most responsible" for.



Modifiability

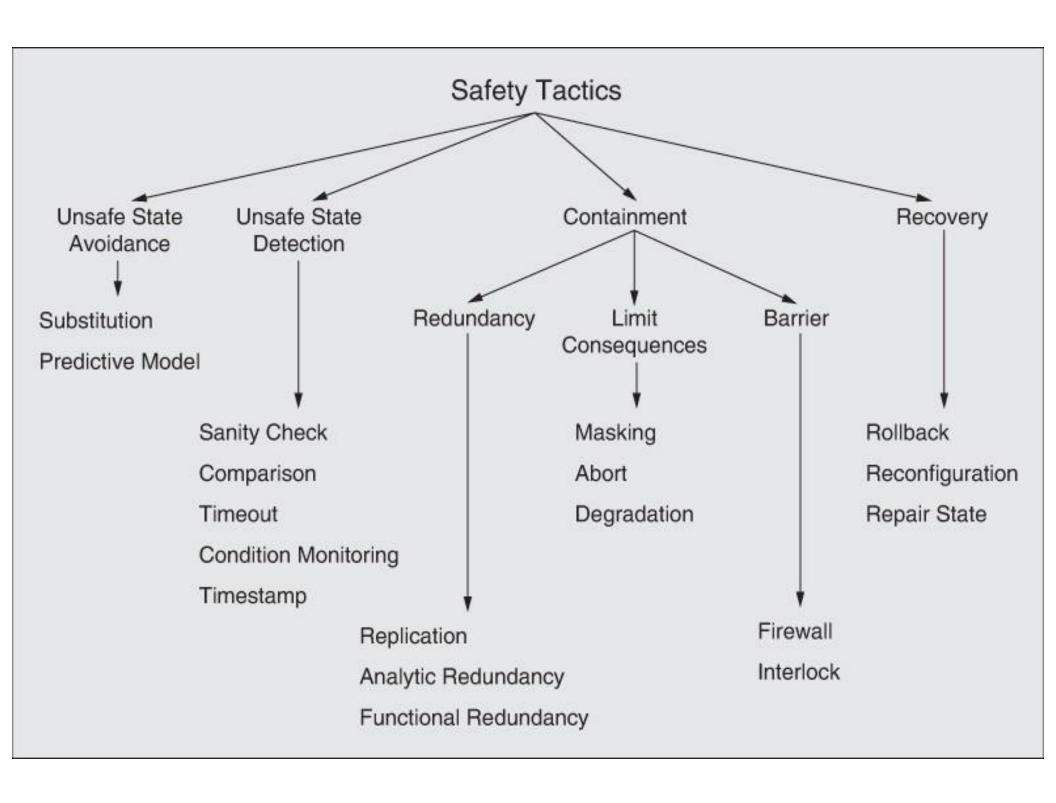


Modifiability



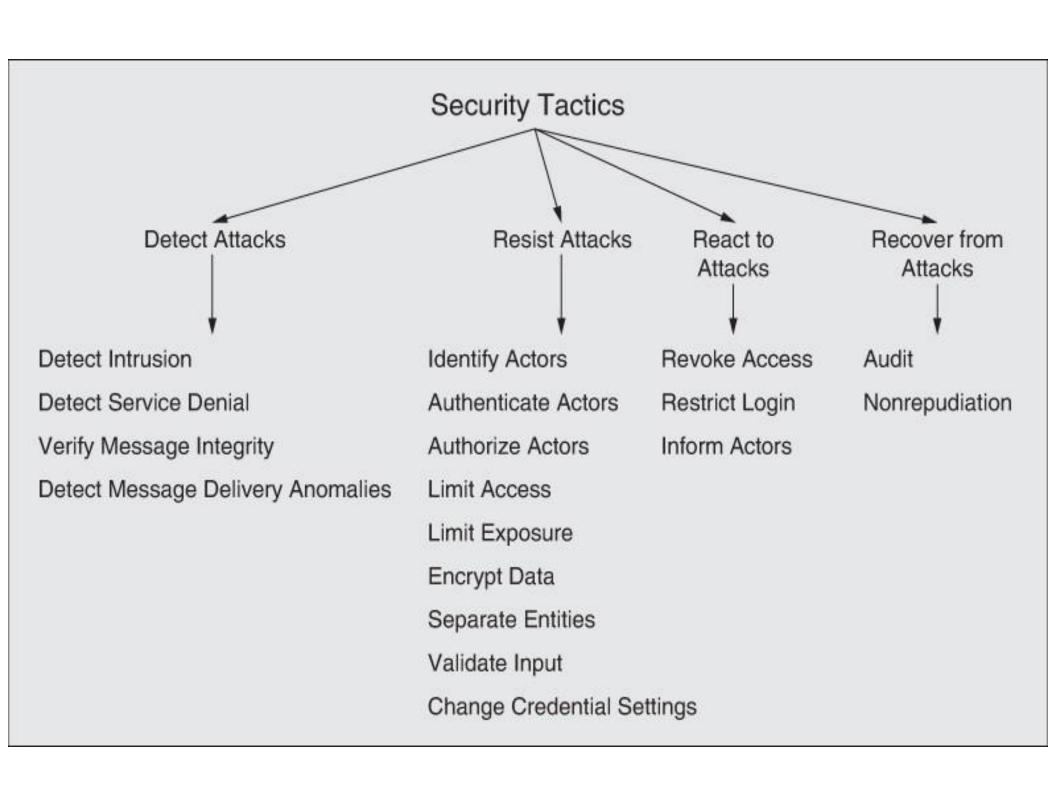
Safety





Security





Activity

- Make a group of 2.
- Pick an example with multiple functions.
- Implement 2 of the modifiability tactics.
- One from Increase Cohesion and one from Reduce Coupling.
- Submit screenshots of the code and the outputs to teams.

