

SENG 301

Software

Analysis and

Design

Lab 13 - Partitioning

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Partitioning

- When we split up the design of a whole system into subsystems, this is called *partitioning*
- A top-down process
- Result in a set of subsystems

Partitioning

- Make it easier to change the implementation
- Increase the potential for reuse
- Reduce the complexity of the individual pieces

Choosing a partition

- Aim to:
 - Helps break down a complex problem into simpler ones
 - Results in parts that make conceptual sense

Cohesion and Coupling

- Coupling : The degree to which the modules of a design are related
- Cohesion: The degree to which the internal of a module are related
- Ideal design of a system has highly cohesive modules that are loosely coupled

START Lab 13