

# SENG 301

# Software

# Analysis and

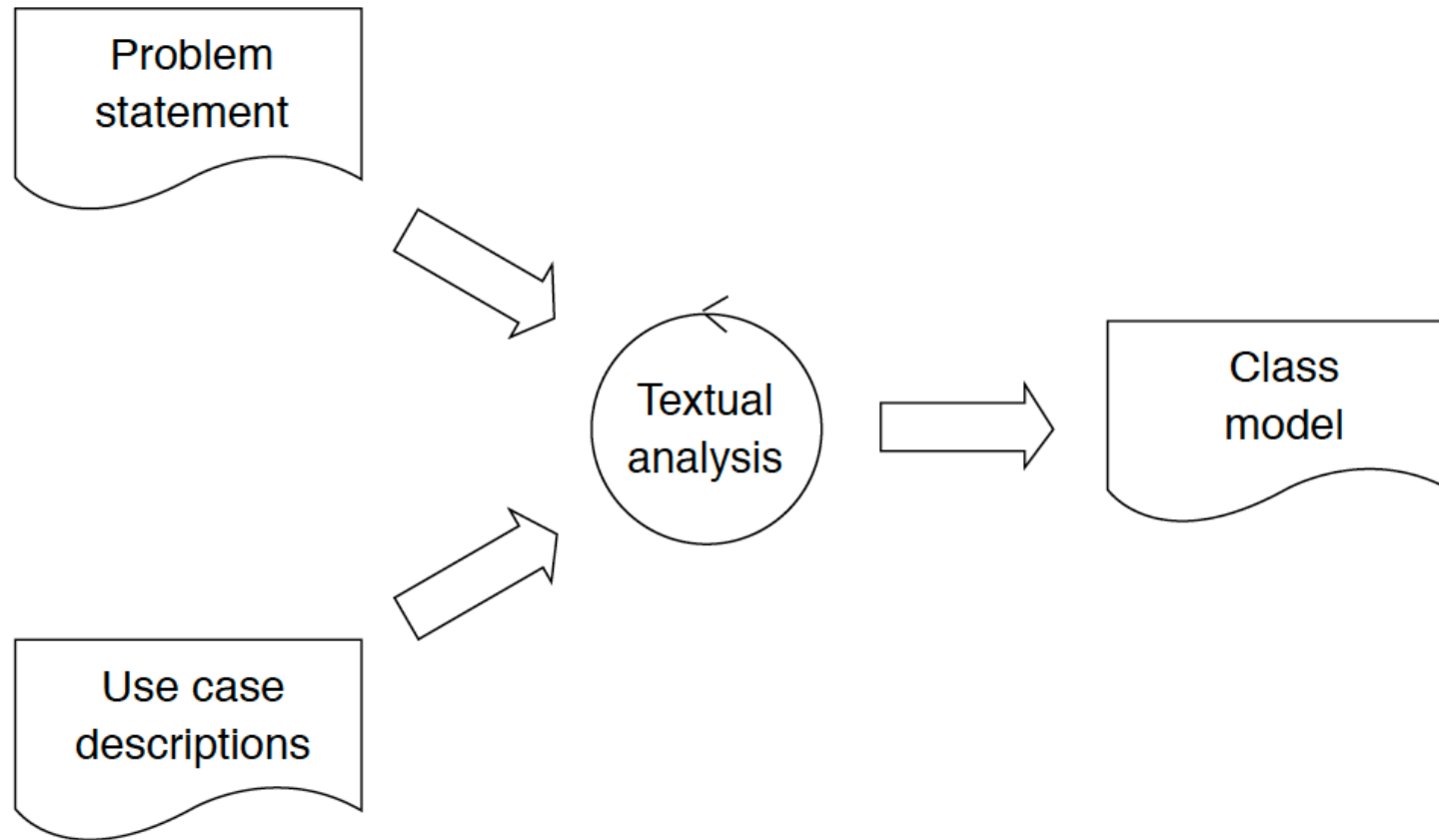
# Design

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Lab 14 – Textual Analysis

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# Textual Analysis



# Textual Analysis

- Start with problem statement
  - “ The problem description should focus on the description of the objects and their relationships in the domain”
- Identifying Objects and Classes
  - extract all noun and noun phrases from the problem statement, evaluate whether it represent an object in the domain

# Textual Analysis

- Noun that can represent objects
  - Tangibles (e.g. classroom, playground)
  - Conceptual (e.g. course, module)
  - Events (e.g. test, examination, seminar)
  - External organizations (e.g. publisher, supplier)
  - Roles played (e.g. student, teacher, principal)
  - Other systems (e.g. admission system, grade reporting system)

# Textual Analysis

- Eliminating Nouns that represents
  - Redundant Classes
  - Irrelevant classes
  - Vague classes
  - Attributes
  - Operations
  - ...
- Refine list for candidate classes

# Textual Analysis

- Identifying Associations between Classes
  - looking for verbs and verb phrases connecting two or more objects in the problem statement

**START Lab 14**