

# Collaboration Diagrams

- Class exercise



# Exercise 1A: sequence diagram from a use-case scenario

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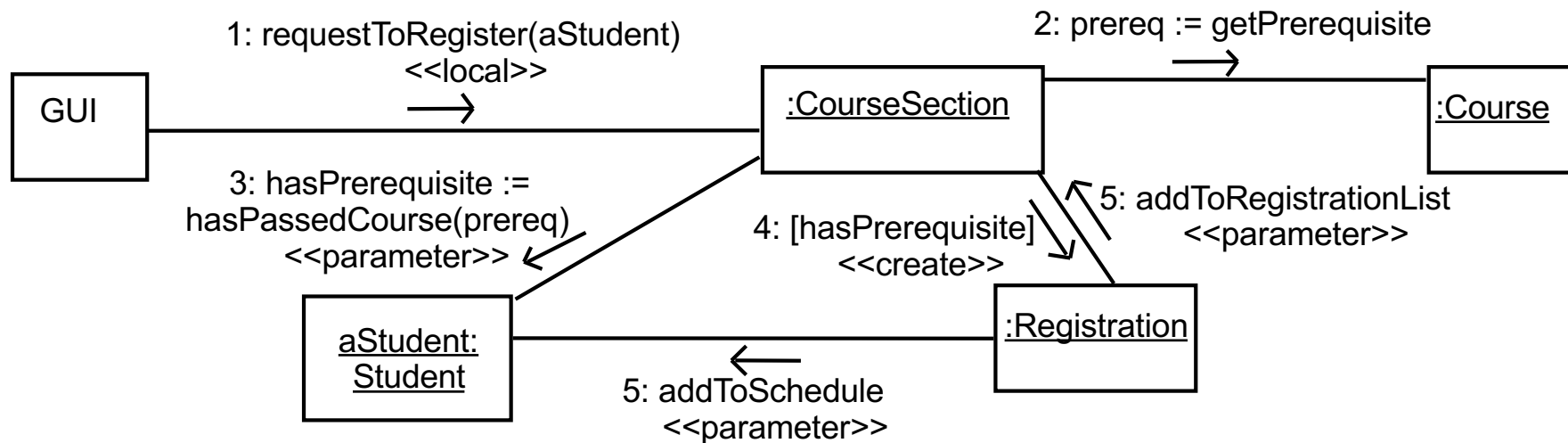
- ▶ *Draw a sequence diagram for the following warehouseOnFire scenario. Include the objects bob, alice, john, FRIEND, and instances of other classes you may need. Draw only the first five message sends.*
  - ▶ Scenario name: warehouseOnFire
  - ▶ Participating actor instances: bob, alice:FieldOfficer, john:Dispatcher
  - ▶ Flow of events:
    - ▶ 1. Bob, driving down the main street in his police car, notices smoke coming out of a warehouse. His partner, Alice, activates the 'Report Emergency' function from her FRIEND laptop.
    - ▶ 2. Alice enters the address of the building, a brief description of its location (ie. northwest corner), and an emergency level. In addition to a fire unit, she requests several paramedic units on the scene given that area appears to be relatively busy. She confirms her input and waits for an acknowledgement.
    - ▶ 3. John, the Dispatcher, is alerted to the emergency by a beep of his workstation. He reviews the information submitted by Alice and acknowledges the report. He allocates a fire unit and two paramedic units to the Incident site and send their estimated arrival time (ETA) to Alice.
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- ▶ 2▶ 4. Alice receives the acknowledgement and the ETA

# Exercise 1B: Convert your sequence diagram into a collaboration diagram

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## Exercise 2: code vs. interaction diagram

- Write a Java implementation that is modelled by the following diagram:



## Exercise 3: sequence vs. interaction diagram

- ▶ Draw a sequence diagram that models as much as possible (but not more than that!) of the contents that is being modelled by the following diagram:

