

Homework 4

- 4.1. [20 points] For the text-messaging application from Homework 3.3, give an example of a use case with
- a) Inclusion of a use case in another.
 - b) Extension to add behavior.

For your convenience, the following description is repeated from Homework 3:

Each phone has its own Home server, determined by the phone's number. The Home server keeps track of the phone's location, billing, and communication history. Assume that the source and destination phones have different Home servers. The destination Home server holds messages until they can be delivered. Also assume that the network does not fail; that is, the phones stay connected to the network.

- 4.2. [20 points] Are the following statements true or false? Explain why you chose true or false.
- a) The expected overall planning effort is less with advance planning than with adaptive planning.
 - b) The Adaptive Iron Triangle fixes time and scope and lets costs vary.
 - c) Anchoring is the human tendency to stick to a position, once taken.
 - d) The shorter the planning horizon, the lower the uncertainty.
 - e) Anchoring reduces uncertainty during planning.
 - f) Planning Poker involves successive rounds of individual estimation and group discussion.
 - g) Relative estimates are more accurate than absolute estimates.
 - h) Three-Point Estimation is given by $estimate = (best + 2 \times median + worst) / 4$.
 - i) Wideband Delphi avoids cognitive bias by keeping group members apart and anonymous.
 - j) Estimators tend to underestimate effort needed.