

Systems modeling homework 3

Exercise 1

Title: Ulno plays Jack and chooses suit

Pre: pre-pre-condition; Eero is dealer. Ulno has in his hand C8, CJ, DA and it is his turn. Eero's hand is H10, S8. Artjom's hand is D7, C9, SK, SA. The top of the pile is C10, HQ, DJ, DK these are also the only cards in the pile. The top of the deck is S9, C7, HK, HA, DQ, CQ, CK, S7, D8, S10, H9, D9, D10, SJ, HJ, H7, H8, CA, SQ.

Action: Ulno places CJ onto the open pile and sais the next suite is S.

Post: Ulno's hand is C8, DA. Eero's hand is H10, S8 and he is the dealer. Artjom's hand is D7, C9, SK, SA. Top of the deck is S9, C7, HK, HA, DQ, CQ, CK, S7, D8, S10, H9, HA, D9, D10, SJ, HJ, H7, H8, CA, SQ. Top of the pile is CJ, C10, HQ, DJ, DK. Next playable suite is S. It is Artjom's turn.

Title: Artjom plays an 8 and Eero skips a turn

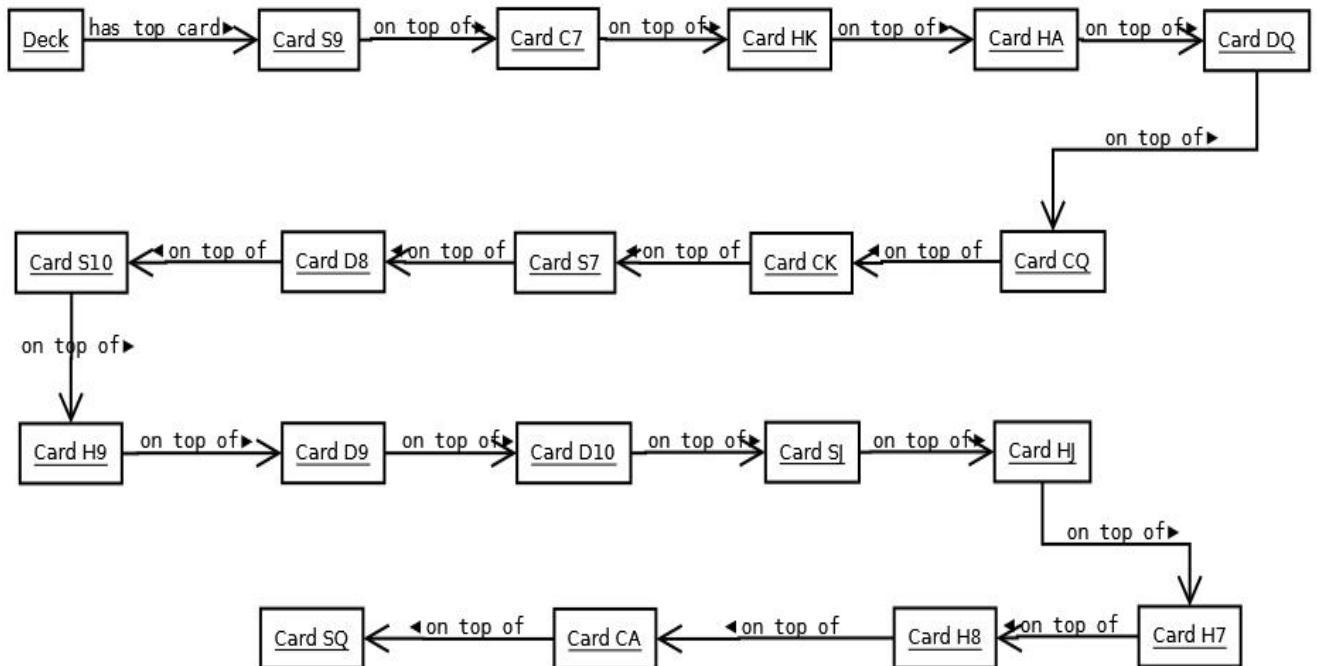
Pre: pre-pre-condition; Ulno has in his hand C8, CJ, DA. Eero's hand is H10, S8 and he is the dealer. Artjom's hand is D8, C9, SK, SA and it is his turn. The top of the pile is D9, C10, HQ, DJ, DK, these are also the only cards in the pile. The top of the deck is C7, HK, HA, DQ, CQ, CK, S7, D7, S10, H9, HA, S9, D10, SJ, HJ, H7, H8, CA, SQ.

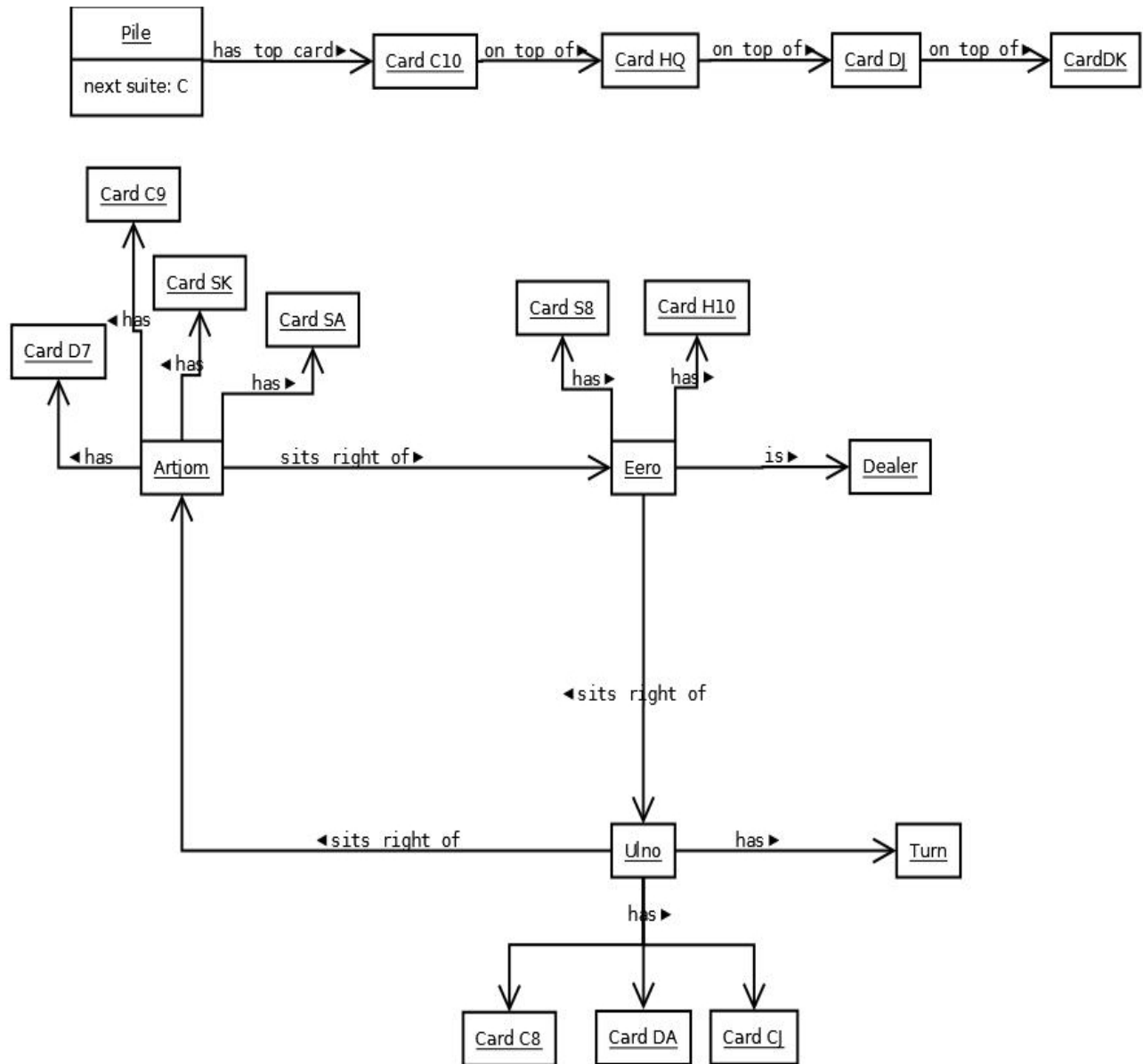
Action: Artjom places places D8 onto the open pile. Eero's turn is lost.

Post: Ulno's hand is C8, CJ, DA. Eero's hand is H10, S8 and he is the dealer. Artjom's hand is C9, SK, SA. Top of the deck is C7, HK, HA, DQ, CQ, CK, S7, D7, S10, H9, S9, D10, SJ, HJ, H7, H8, CA, SQ. Top of the pile is D8, D9, C10, HQ, DJ, DK. It is Ulno's turn.

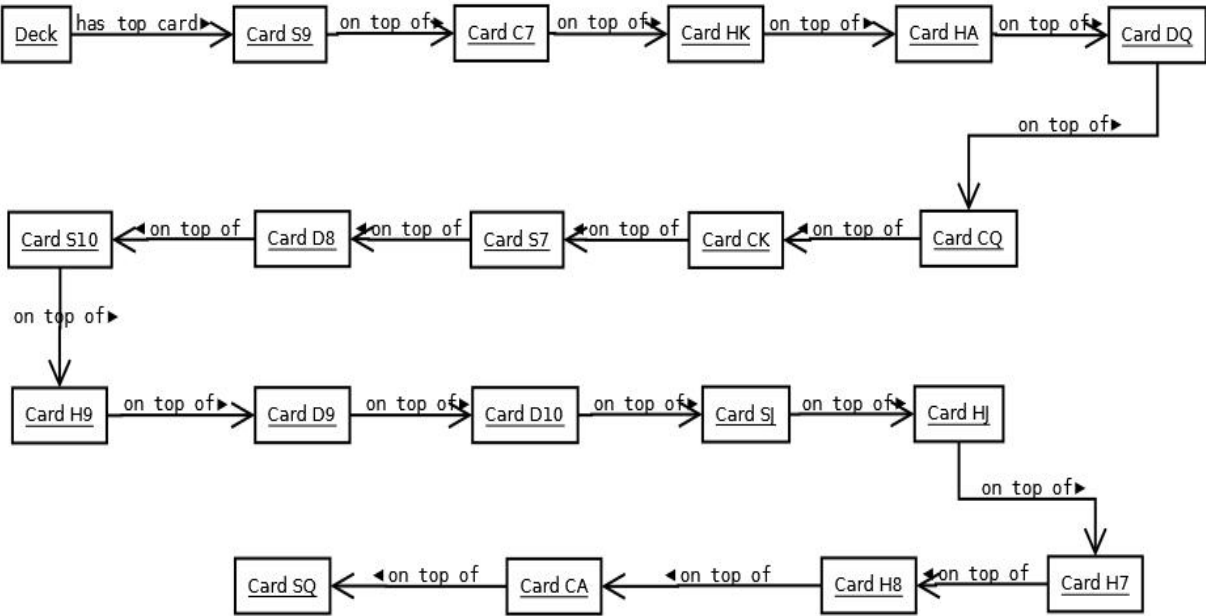
Ulna plays Jack and choses suit

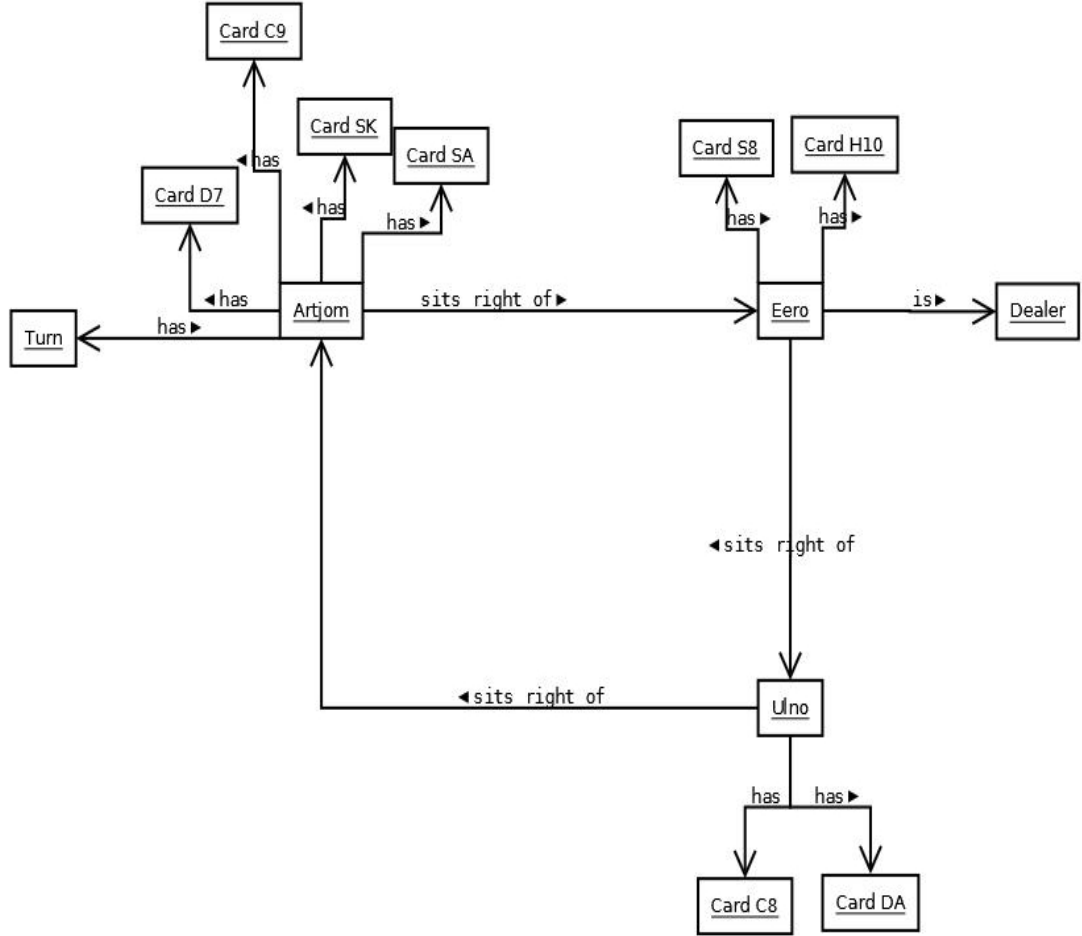
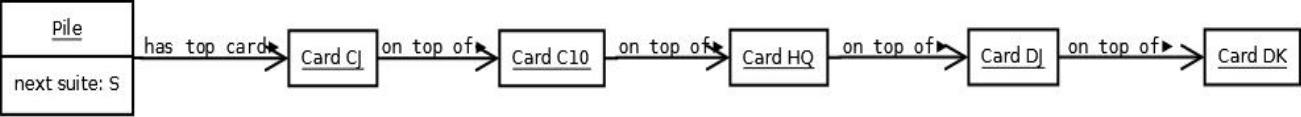
Precondition:





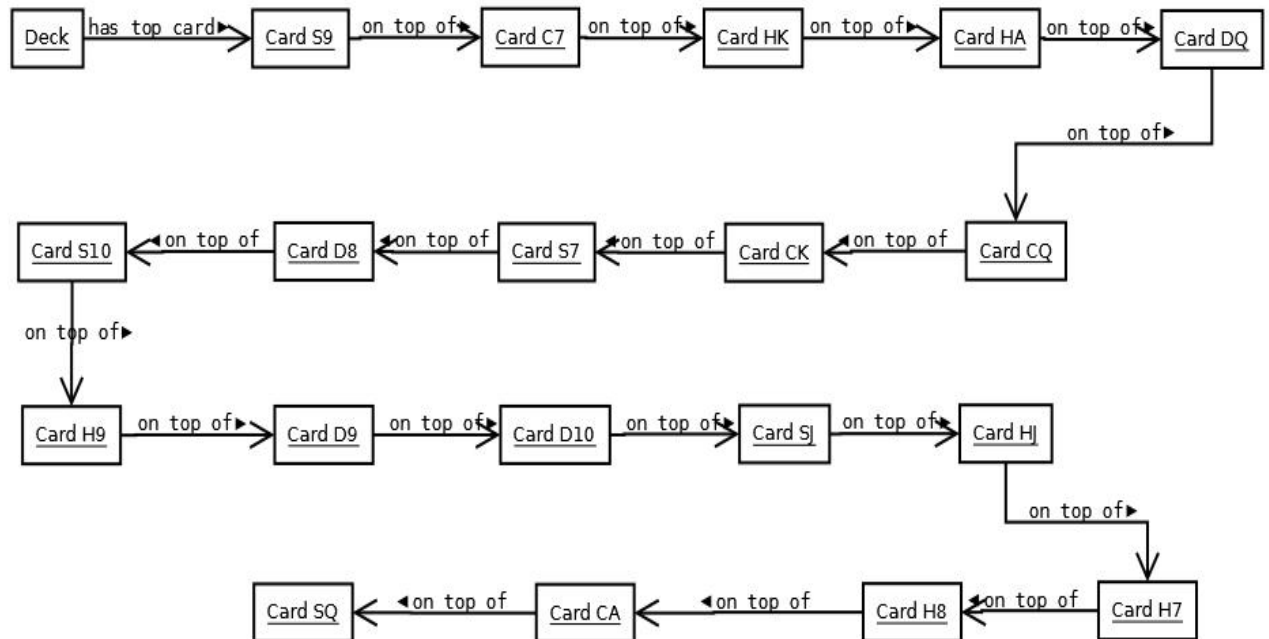
Postcondition:

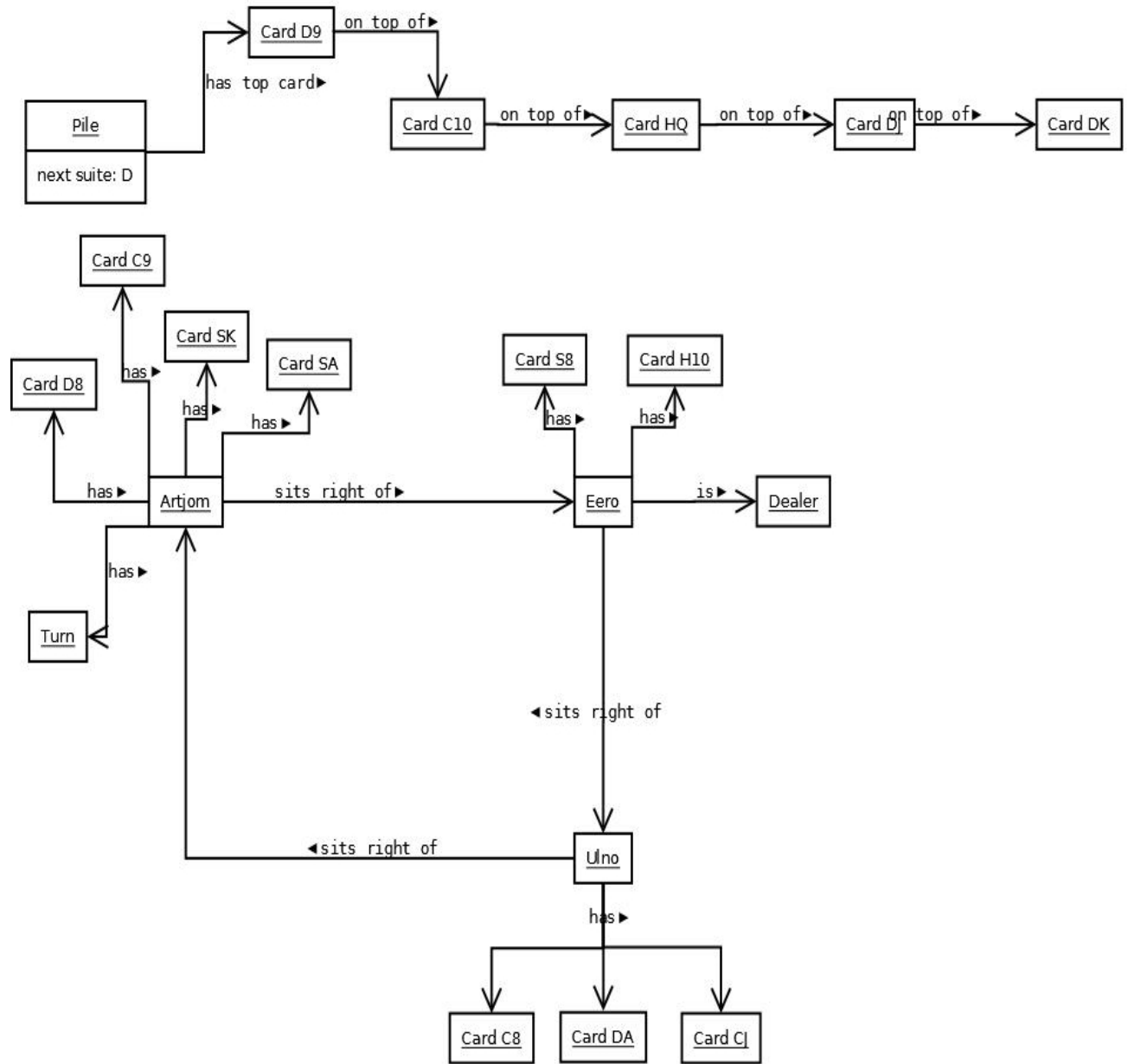




Artjom plays an 8 and Eero skips a turn

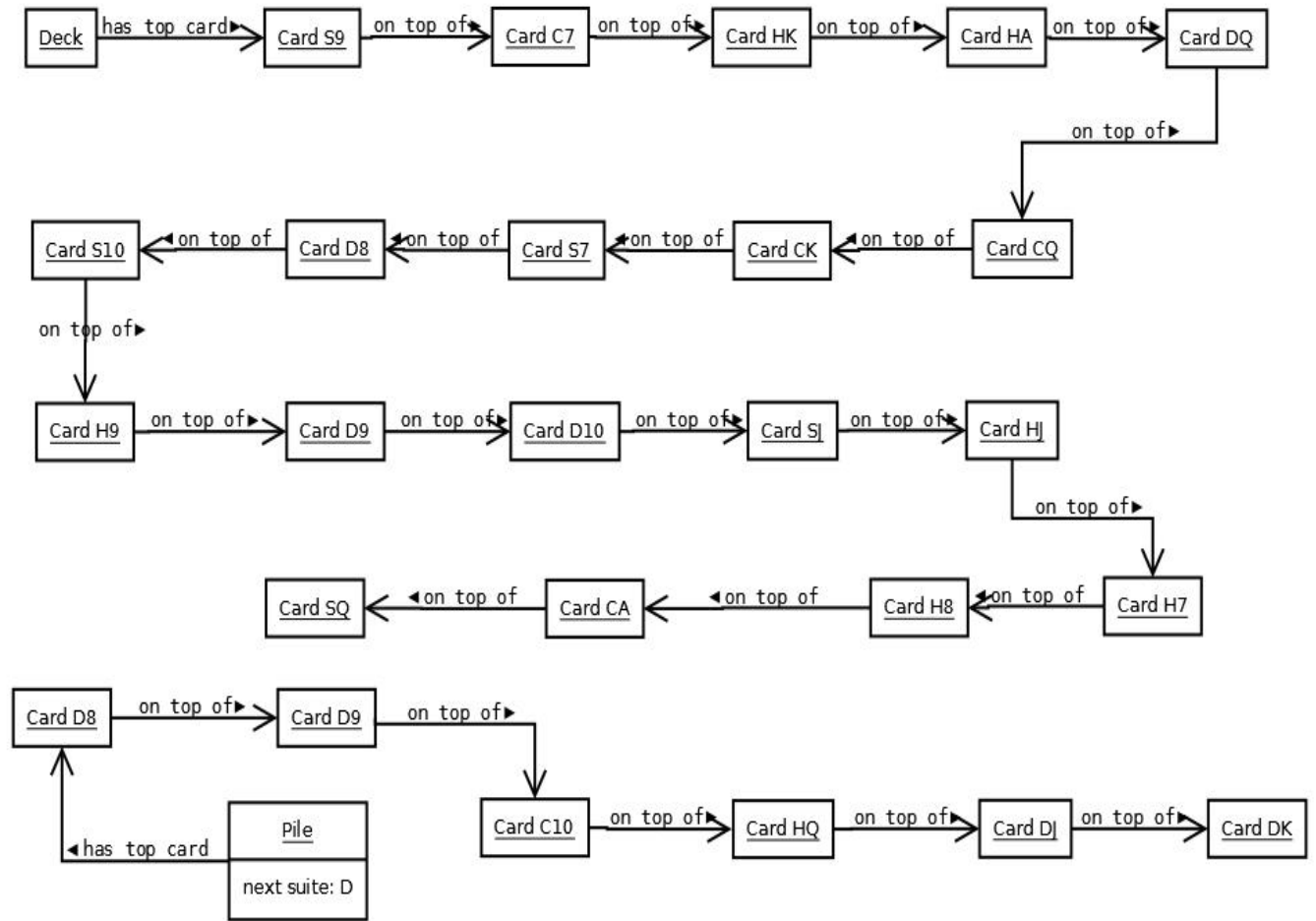
Precondition:

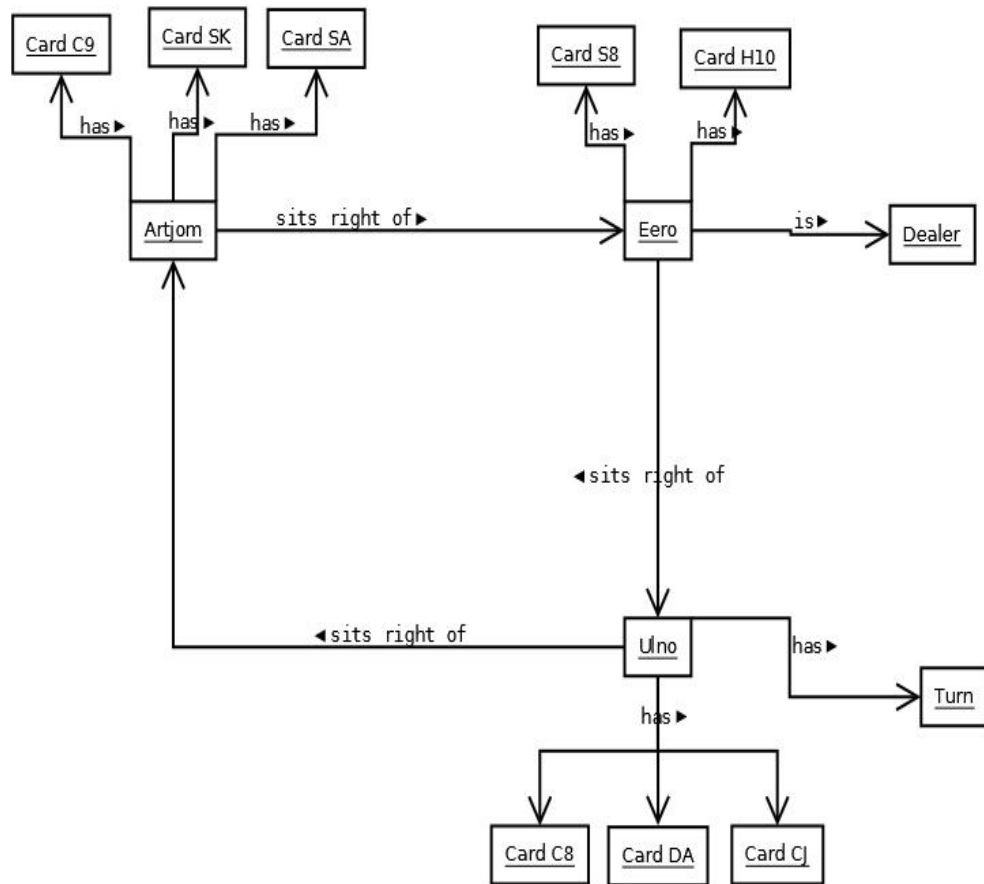




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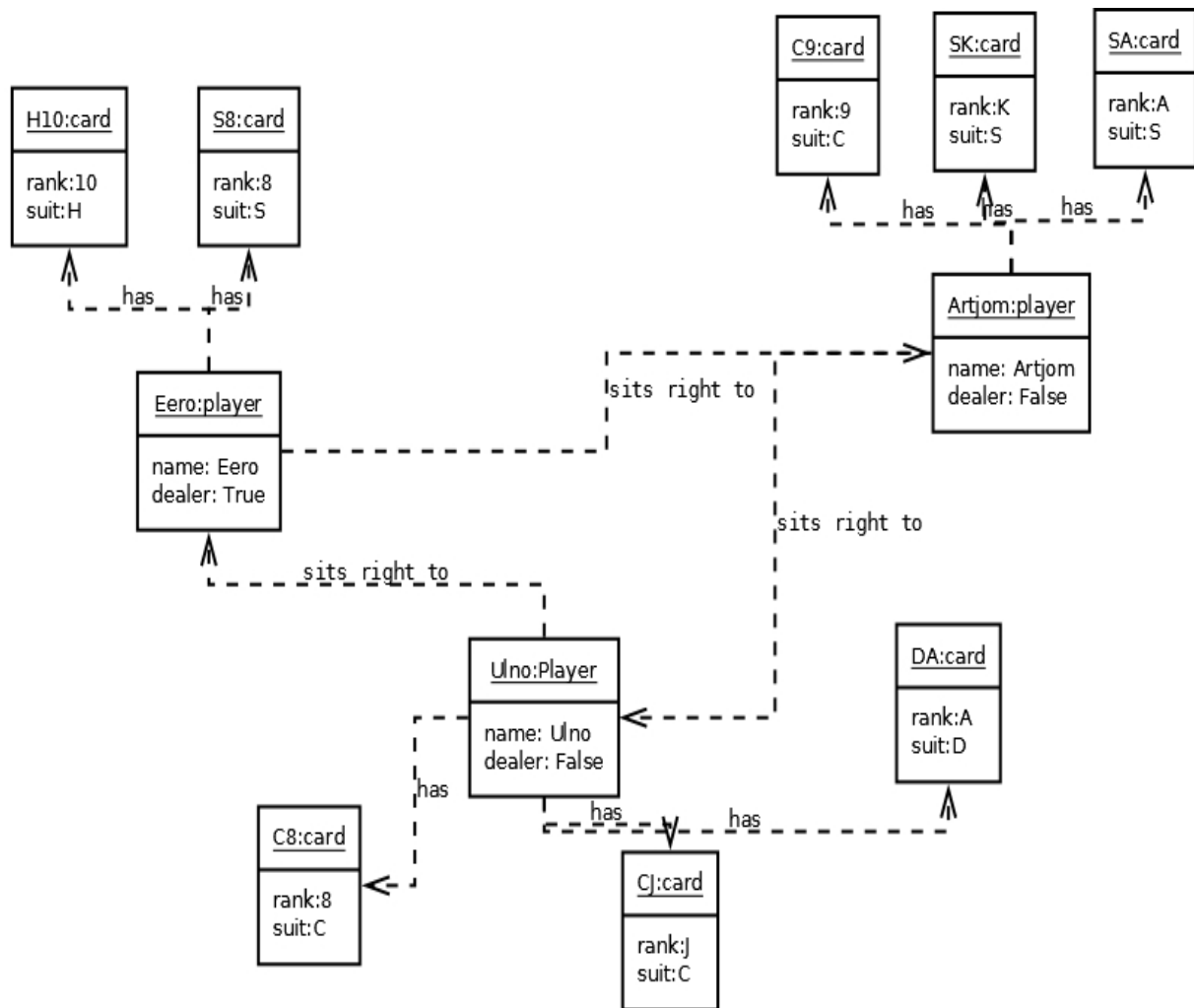
graph TD
    Deck[Deck] -- "has top card" --> S9[Card S9]
    S9 -- "on top of" --> C7[Card C7]
    C7 -- "on top of" --> HK[Card HK]
    HK -- "on top of" --> HA[Card HA]
    HA -- "on top of" --> DQ[Card DQ]
    DQ -- "on top of" --> CQ[Card CQ]
    CQ -- "on top of" --> CK[Card CK]
    CK -- "on top of" --> S7[Card S7]
    S7 -- "on top of" --> D8[Card D8]
    D8 -- "on top of" --> S10[Card S10]
    S10 -- "on top of" --> H9[Card H9]
    H9 -- "on top of" --> D9[Card D9]
    D9 -- "on top of" --> D10[Card D10]
    D10 -- "on top of" --> SJ[Card SJ]
    SJ -- "on top of" --> HJ[Card HJ]
    HJ -- "on top of" --> H7[Card H7]
    H7 -- "on top of" --> H8[Card H8]
    H8 -- "on top of" --> CA[Card CA]
    CA -- "on top of" --> SQ[Card SQ]
    D8_2[Card D8] -- "on top of" --> D9_2[Card D9]
    D9_2 -- "on top of" --> C10[Card C10]
    C10 -- "on top of" --> HQ[Card HQ]
    HQ -- "on top of" --> DJ[Card DJ]
    DJ -- "on top of" --> DK[Card DK]
    Pile[Pile] -- "has top card" --> D8_2
    Pile -- "next suite: D" --> D9_2
  
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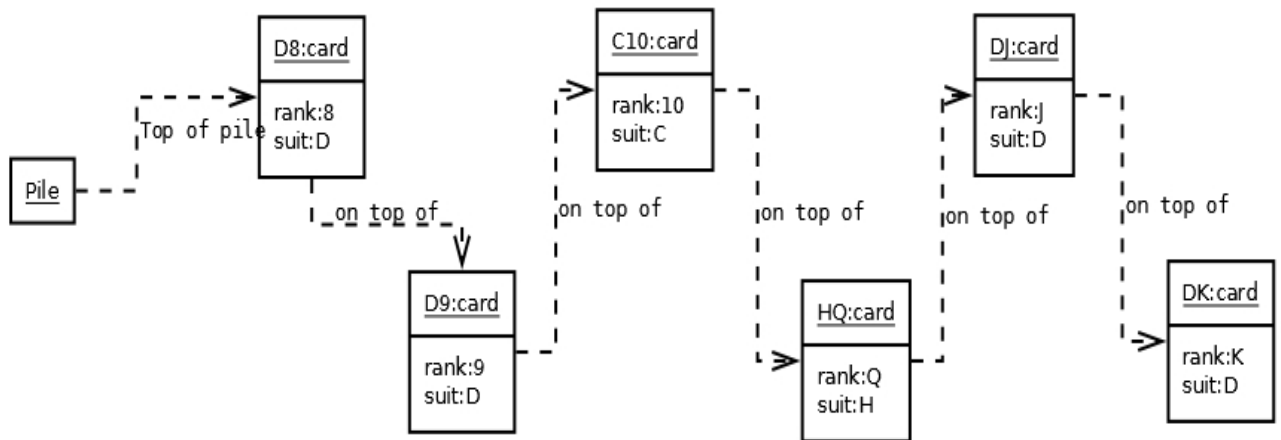
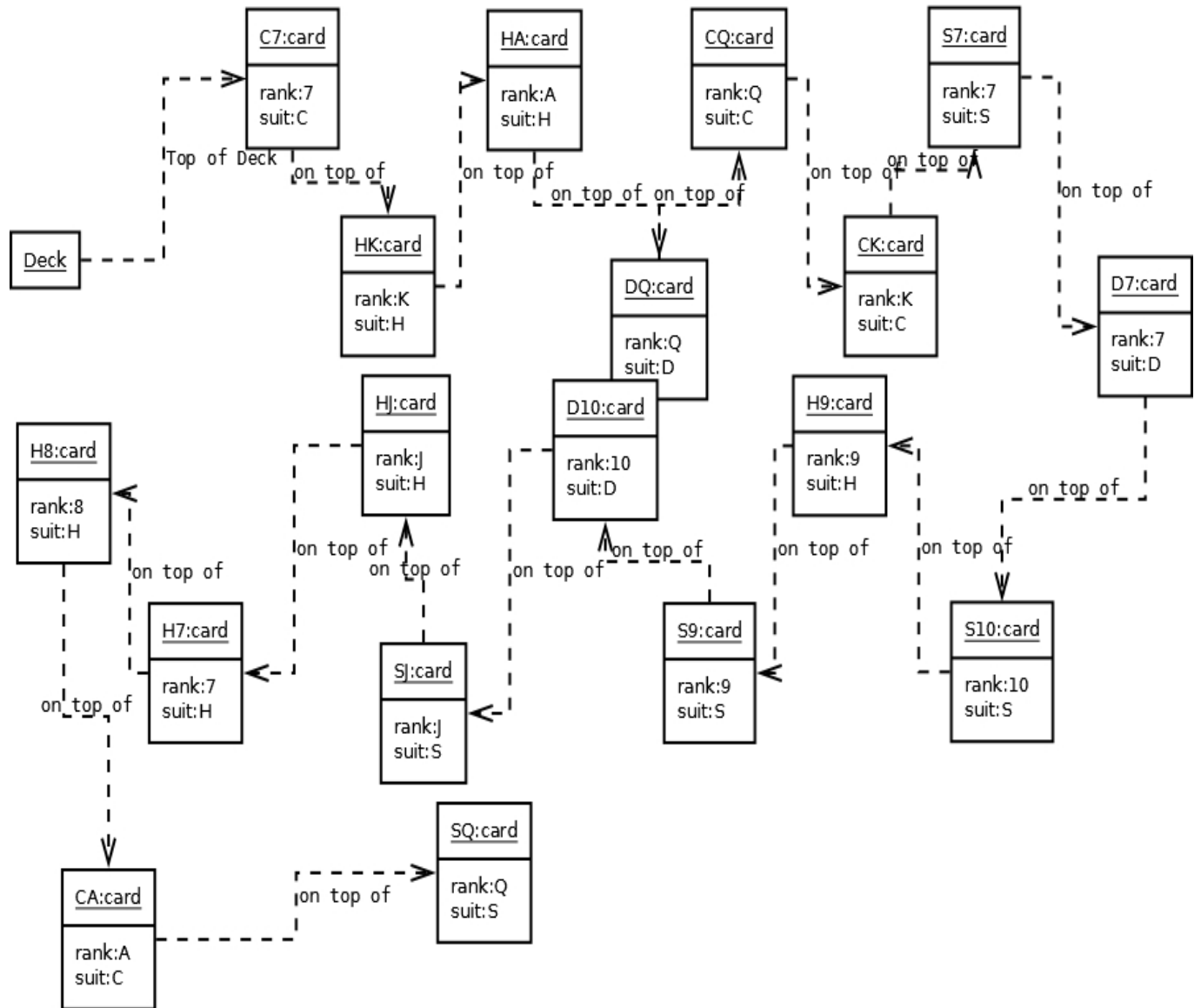




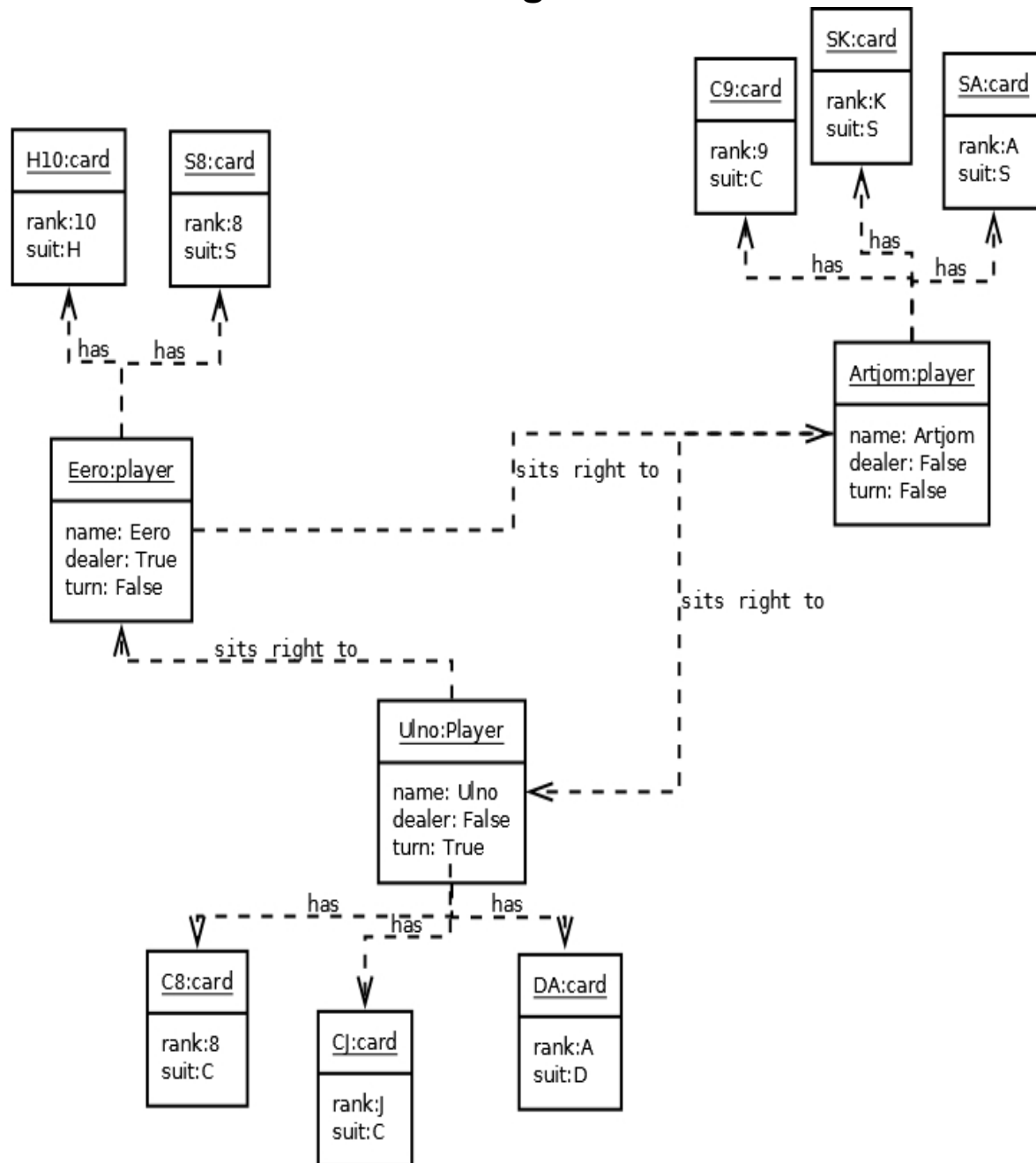
Diagrams for extra userstories

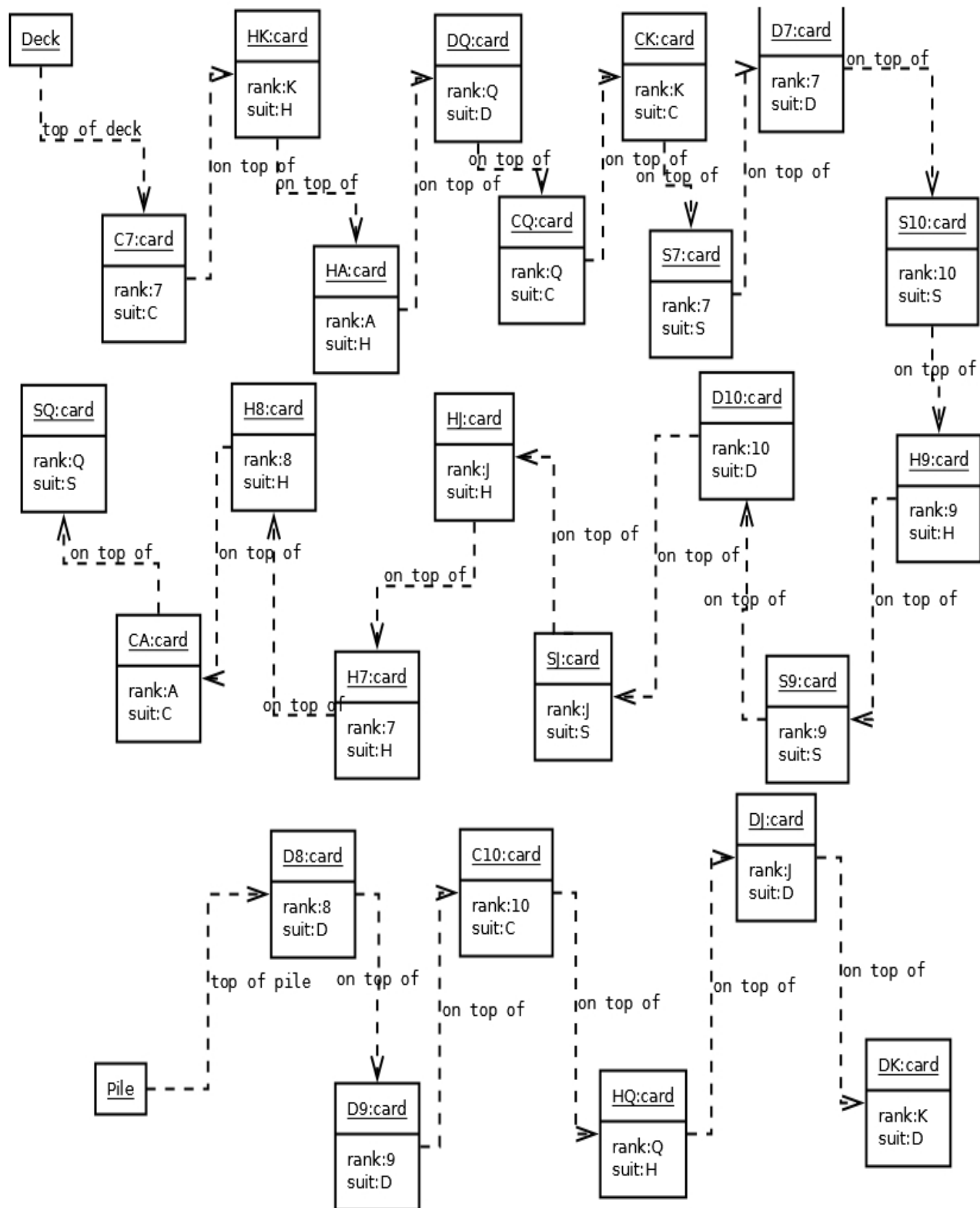
Extra Post-condition 1 Diagram with attributes:





Extra Post-condition2 Diagram with attributes:





Given Userstories, Draw post cond. with class names and attributes:

pre-pre-condition:

We have a deck of 32 cards, consisting of 4 suits (diamond, heart, spade, clubs). In each suit we have 7, 8, 9, 10, Jack, Queen, King, Ace

We abbreviate one of these cards like

DA: Diamond Ace

S10: Spade 10

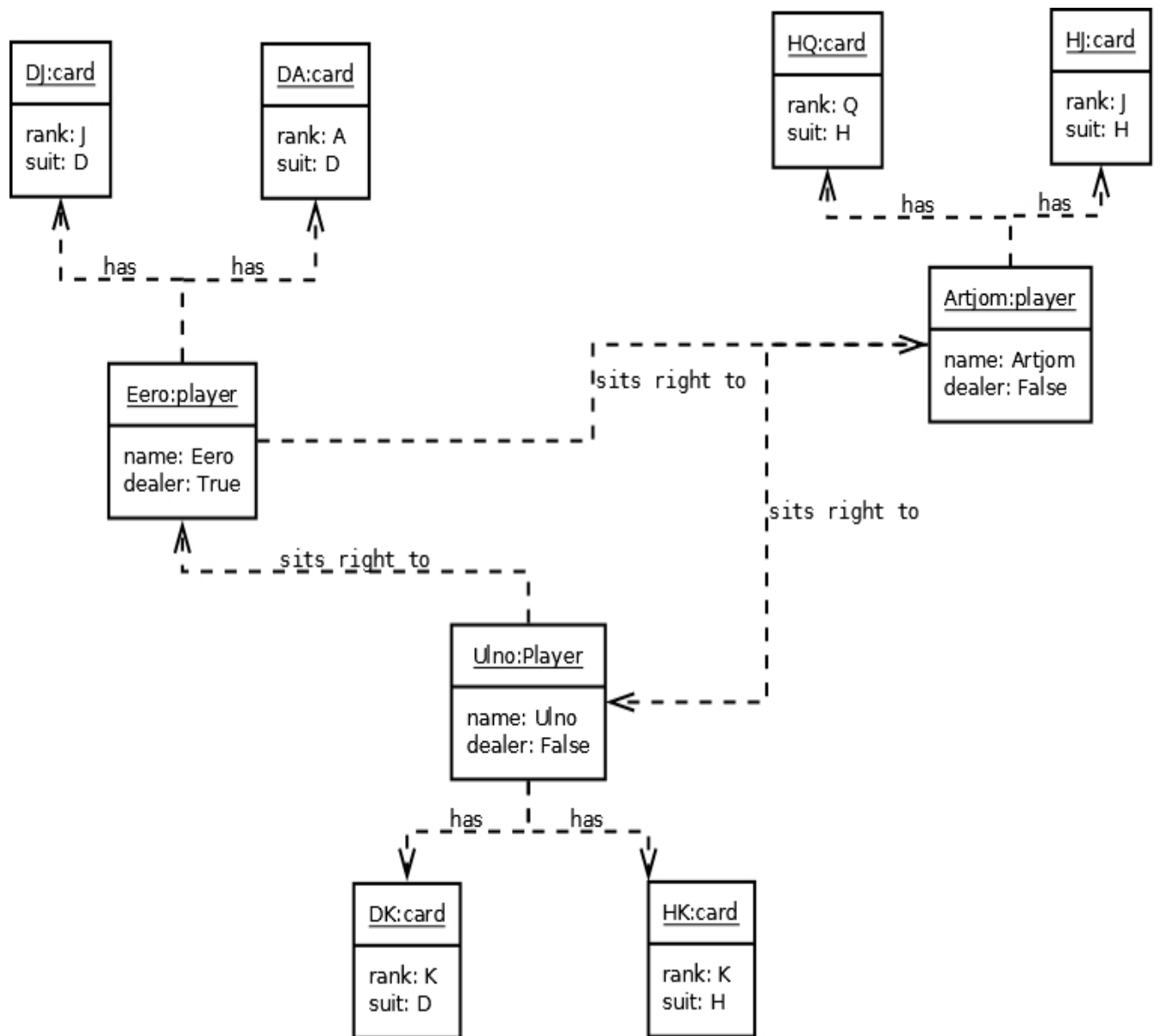
H7: 7 of heart

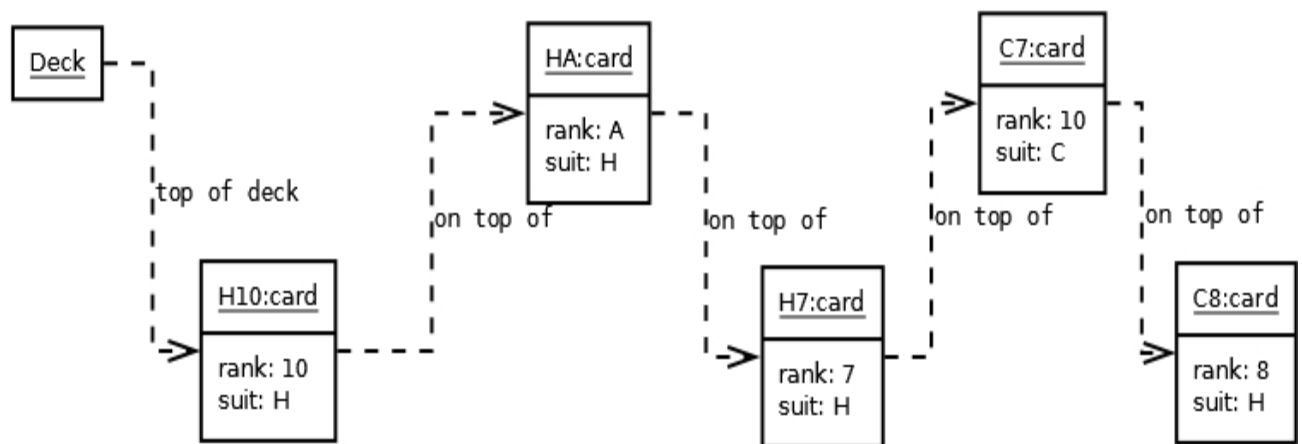
There are three players: Eero, Ulno, and Artjom

Eero sits right of Ulno, Ulno right of Artjom, and Artjom right of Eero. They play Mau Mau.

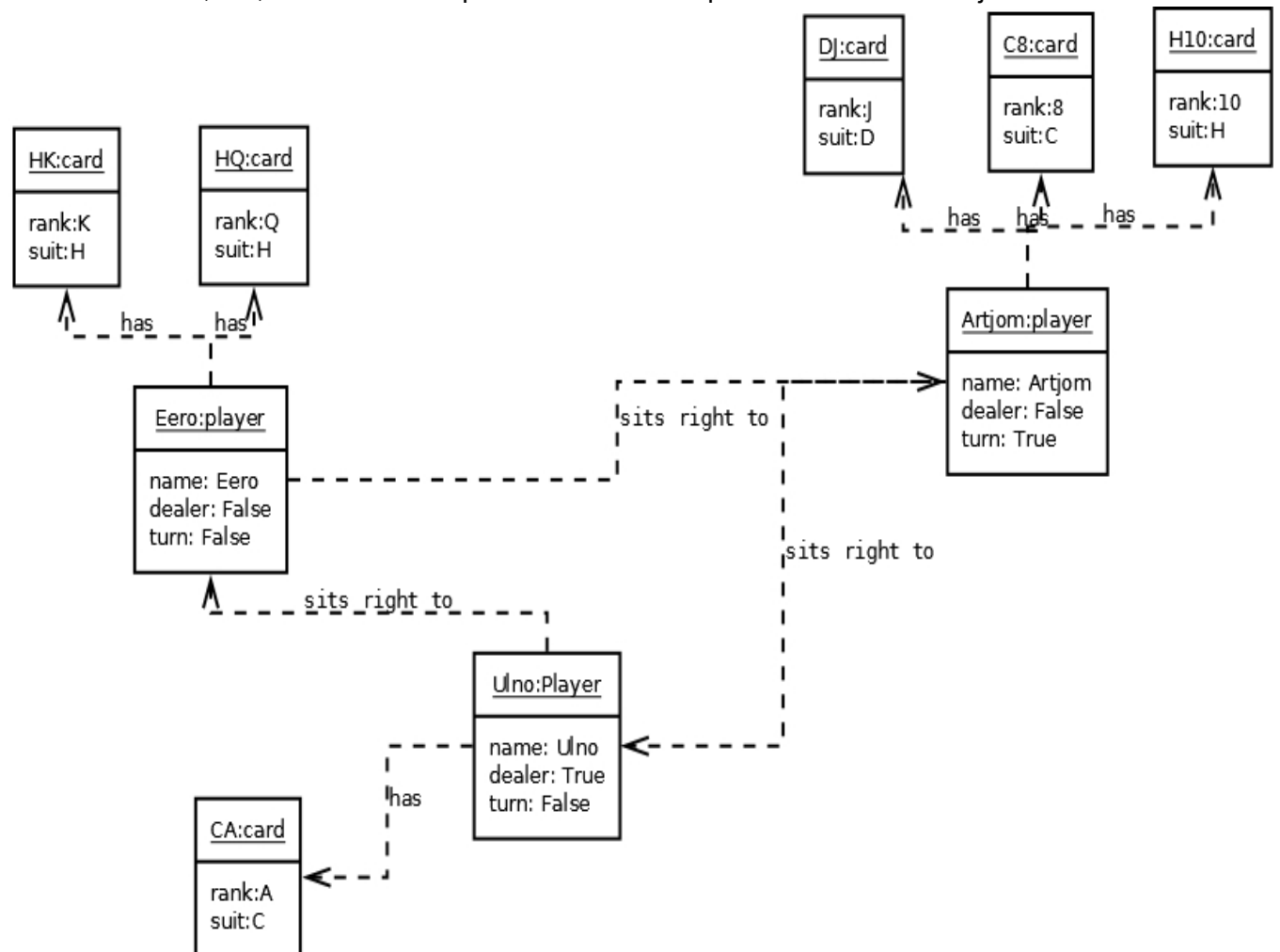
Given Post 1: Eero has now on his hand DJ, DA, Artjom has HQ, HJ, and Ulno has DK, HK.

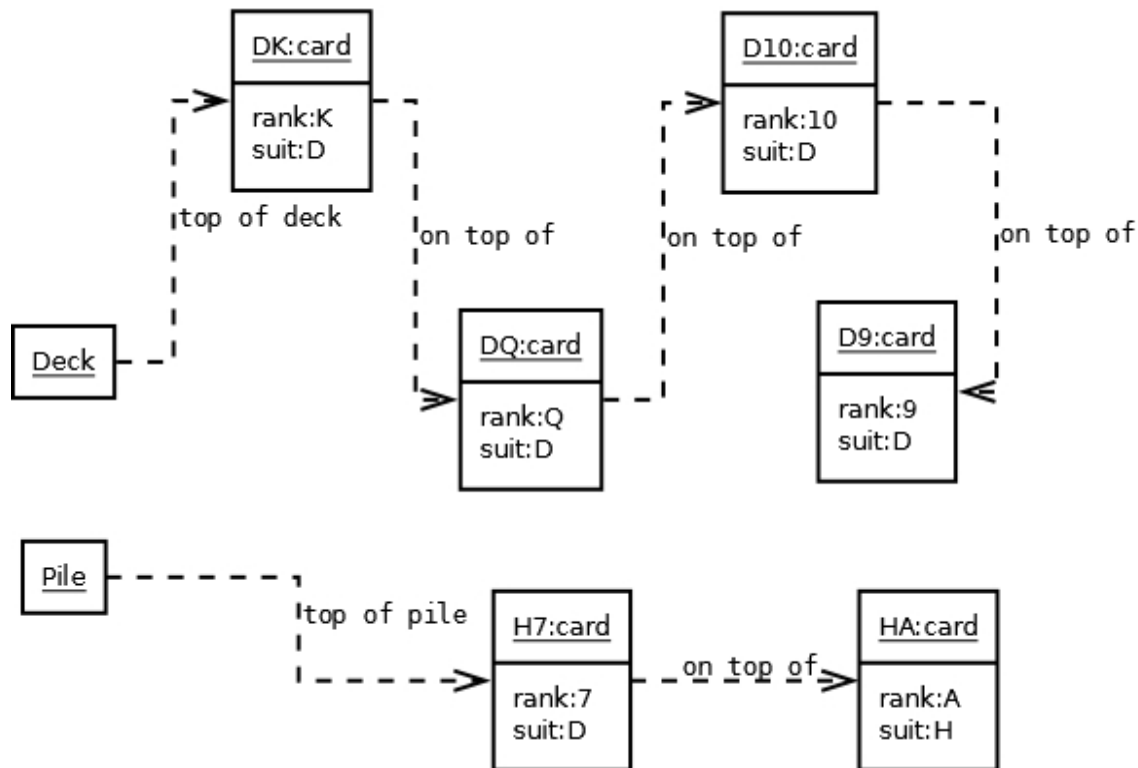
The top of the deck shows H10, CA, HA, H7, C7, C8





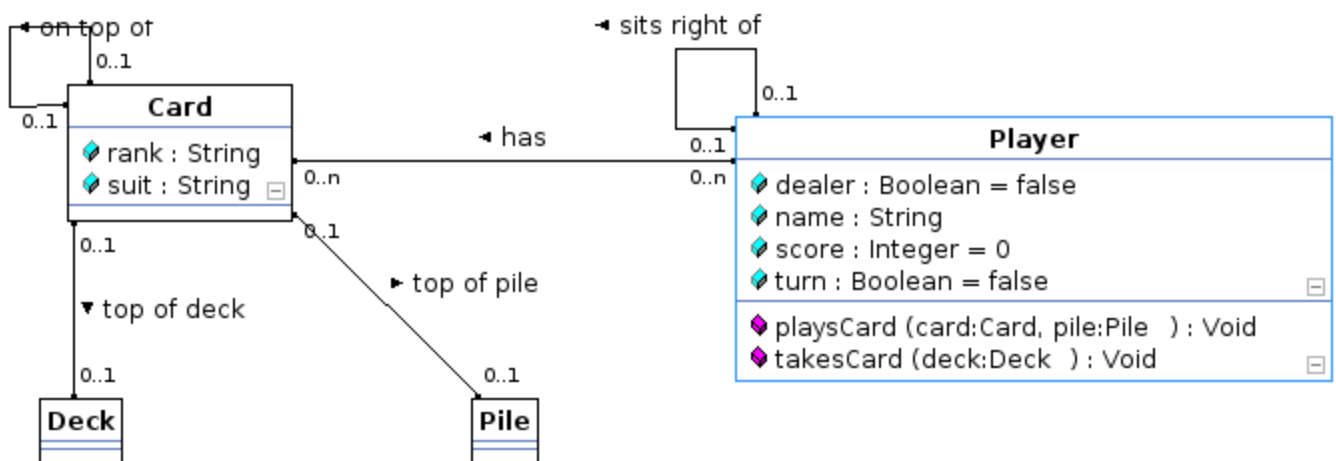
Given Post 2: Eero has now on his hand HK, HQ, Artjom has DJ, C8, H10, and Ulno has CA. The top of the deck shows DK, DQ, D10, D9 (DK is top card). On the top of the open deck are now all the cards, HA, H7. H7 is the top-most card of the open deck. It is now Artjom's turn.





Class diagramm for Maumau

Fujaba model:



Eclipse import:

http://math.ut.ee/~wazz/sm/hw3_fujaba.zip