RE I Discussion Exercise 2

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General Issue

Read the assignments thoroughly!!!

- Did you distinguish between direct and indirect stakeholders?
- Did you explain why you think the chosen techniques fit?
- Does your interview help you in discovering requirements?

- Does your class diagram consider all important system aspects?
- Does each "system" have a class "system"?
- Is a user a person or a person a user?
- Did you name the associations you identified?
- Did you check the names of your classes?
- Did you use class diagrams to show a scenario?

- Did you analyze a domain or did you design a system?
- Did you represent a relationship with both an association and an attribute?

Ex 3a

- Which system are you referring to?
- Who starts your scenario?
- Which scenarios do you diagrams represent (order vs. delivery)?
- What about the granularity of your models?

Ex 3b

- What is the start state?
- What are the final states?
- Can you reach a final state?
- How can you reach a final state?

Ex 3d

- All models refer to the same system
- Take care that models are consistent and complete
 - Language change
 - Missing elements

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- You don't have to assign values to each output (it suffices to say that it is member of a given set)
- No order of execution (all lines must be evaluated to true)
- IF THEN ELSE... is a conditional expression (like the "cond? X: Y" expression in Java)

Ex 4 – A possible Solution

```
DelivervAdministration
 households: PHousehold
 deliverers : P Deliverer
distances: (Deliverer × Household) → {near, intermediate, far}
 assignments: Deliverer +> Household
dom\ distances \subset households \times deliverers
dom \ assignments \subset deliverers
ran assignments \subseteq households
SelectDeliverer_
  \Delta DelivervAdministration
household?: Household
distance! : {near, intermediate, far, none available}
deliverer! : Deliverer
nearAvailableDeliverers : P Deliverer
 interAvailableDeliverers : P Deliverer
farAvailableDeliverers : P Deliverer
nearAvailableDeliverers = \{d : deliverers \mid distances(d, household?) = near\} \setminus dom assignments
interAvailableDeliverers = \{d : deliverers \mid distances(d, household?) = intermediate\} \setminus dom assignments
farAvailableDeliverers = \{d : deliverers \mid distances(d, household?) = far\} \setminus dom assignments
nearAvailableDeliverers \neq \emptyset \Rightarrow deliverer! \in nearAvailableDeliverers \land distance! = nearAvailableDeliverers \land
nearAvailableDeliverers = \emptyset \land interAvailableDeliverers \neq \emptyset \Rightarrow deliverer! \in interAvailableDeliverers \land distance! = intermediate
near A vailable Deliverers = \emptyset \land inter A vailable Deliverers = \emptyset \land far A vailable Deliverers \neq \emptyset \Rightarrow deliverer! \in far A vailable Deliverers \land distance! = far A vailab
nearAvailableDeliverers = \emptyset \land interAvailableDeliverers = \emptyset \land farAvailableDeliverers = \emptyset \Rightarrow distance! = none available
assignments' = if distance! = none available then assignments else assignments <math>\cup \{(deliverer!, household?)\}
 distances' = distances
 deliverers' = deliverers
  households' = households
```