



Hi Mike, here are some thoughts for consideration - in no particular order:

- Are are the HMM.occupants and HMM.homeDevices meant to be counts? Probably don't need to be attributes
 of the model, rather could be methods that return the count of occupantList and deviceList
- I think Vinay mentioned this, but I don't see a way to support multiple houses in the system.
- What will the HMM::commandHomeDevice() method do? What type of int would I pass to it?
- What if I have 'sensor-like' features or actual sensors in my appliance...how would I grabSnapshot() of those?
- If Occupant.location is a Room and HomeDevice.room is a room there should probably direct dependencies indicated in the diagram. Also, maybe use the same property name if they're both rooms. You may want to model them as direct aggregations, even.

Sep 25, 2017

- What is Occupant.controlLevel? Is that meant to capture entitlements?
- What does it mean for an occupant to be 'known'?
- For implementers the Appliance interface, what sort of behavior will they implement in the "command()" method?
- Why include an explicit HomeDevice::shutdown() method? Maybe a more generic state change method would work, then you could achieve a 'start up' command as well.
- Will KnowledgeBase::addTriple() be any different from KnowledgeGraph::importTriple() that we implemented in Asn1?
- If I have HomeDevice::predicateList() what will the methods you have on the concrete types actually do?
- I'm not sure it's common practice to include attributes on an interface as you have in HomeDevice and Occupant. I don't think it's explicitly prohibited, but keeping state in a variable defined on an interface might not be the best. Constant properties may be OK. See this little

write: http://tutorials.jenkov.com/java/interfaces.html#interface-variables)

What are HMM::setRoom() and HMM::setOccupant() intended to do?

Please let me know if my questions/comments are misguided, or if you want me to follow up with any more information!

Thanks-

Jeremy

(https://canvadighaelyalenelenge/https://asvesbenesede/bgasups/33458/users/96884)



Sep 26, 2017

Hey Jeremy,

Thanks for the feedback. And yes totally, I hear you on the interface attributes definitely need to straighten out those and get them in the right place. And I agree there are way too many duplicate methods that probably can be placed in parent classes or even up in the API. I'll let you know if I have any questions.

Thanks again,

Mike

<u>Reply</u>

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(https://canvas.harvard.edu/groups/33458/users/96884)



Sep 26, 2017

Hey guys,

I'm continuing to update my diagram. No pressure for feedback but I figured I would post it here in case. These edits occurred before some feedback was received.

Mike

HouseMateModelImage.png_(https://canvas.harvard.edu/files/4616951/download?

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Wednesday

Hi Mike, I think it looks good now. One point is I do not prefer weak composition (blank diamond) and text book also discourages it so probably use the association (with arrow)? Just a suggestion though. Further, setters/getters are not needed to show in UML diagrams.

Thanks,

Vinay

Edited by Vinay Mishra (https://canvas.harvard.edu/groups/33458/users/4605) on Sep 27 at 9:27am