README Assignment 2
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CSCIE-97
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House Mate Model Service

All Project documents are located in (from the unzipped folder):

./cscie97/asn2/Docs

- House Mate Model Service Design Document.pdf
- Implementation Notes.pdf
- My Review of Mike.pdf
- My Review of Vinay.pdf
- Peer Review of my design.pdf
- ResultsFile.pdf

To Compile, from the unzipped directory:

javac cscie97/asn2/housemate/model/*.java cscie97/asn2/ housemate/test/*.java

To Run the full test, from the unzipped directory:

java -cp . cscie97.asn2.housemate.test.TestDriver housemate.txt

To Run additional tests:

java-cp. cscie97.asn2.housemate.test.TestDriver housemate_feature_not_supported.txt

java -cp . cscie97.asn2.housemate.test.TestDriver
housemate invalid state value.txt

java -cp . cscie97.asn2.housemate.test.TestDriver
housemate item exists.txt

java -cp . cscie97.asn2.housemate.test.TestDriver
housemate item not found.txt

You can also follow the script syntax in those files to try your own scripts.

IMPORTANT NOTES: My system has NO predefined device types. There is details about this in the design and implementation docs. But here's the skinny: The "DeviceStates" can be added dynamically and associated with devices that have been created. If you follow along with the first few lines of the housemate.txt script in cscie97/asn2/housemate/test you'll see the basic bootstrap. Here's the full supported command syntax:

```
* "define setting (.*) type (.*)"

* "define measure (.*) type (.*)"

* "define house (.*) address (.*) floors (\\d)"

* "define room (.*) house (.*) floor (\\d)"

* "define sensor (.*) type (.*) room (.*)"

* "define appliance (.*) type (.*) room (.*)"

* "add feature (.*) device (.*)"

* "define occupant (.*) name (.*) type (.*)"

* "move occupant (.*) room (.*)"

* "set (sensor|appliance) (.*) status (.*) value (.*)"

* "show (sensor|appliance) (.*) status (.*)"

* "show configuration house (.*)"

* "show configuration room (.*)"

* "show configuration"
```

To Bootstrap you'll need to add settings and measures first, like:

define setting target temp type Float

Then once you have a device, add that setting as a feature to the device:

create house House1 address 123 floors 1
create room Kitchen house House1 floor 1
create appliance Oven type oven room House1:Kitchen
add feature Setting:target_temp device House1:Kitchen:Oven

Then you can set the target temp value on the Oven like this: set appliance Housel:Kitchen:Oven status Setting:target_temp value 200.5

Note, you can make 'measures' as well and associate them with Devices in the same way:

define measure surface_temp type Float add feature Measure:surface_temp device Housel:Kitchen:Oven