Leaf Development Maria Cortes

In-Class Group Exercise Manuel Dosal

February 13, 2014 Mario Flores

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| **Class** | **Obvious** | **Unsure** | **Discarded** | **Comments** |
| System |  |  | ✓ | Not a class is the whole system to be modeled. |
| Wind speed |  |  | ✓ | Attribute of Wind Direction Sensor |
| Temperature |  |  | ✓ | Attribute of Temperature Sensor |
| Humidity |  |  | ✓ | Attribute of Humidity Sensor |
| Biometric pressure |  |  | ✓ | Attribute of Pressure Sensor |
| Measurement | ✓ |  |  | Measurement (+: core concept) |
| Wind chill |  |  | ✓ | Attribute of Measurement |
| Dew point temperature |  |  | ✓ | Attribute of Measurement |
| Temperature trend |  |  | ✓ | Attribute of Measurement |
| Biometric pressure trend |  |  | ✓ | Attribute of Measurement |
| Keypad |  | ✓ |  | Need a way to talk to the system, so it may be good to create a Keypad Interface class |
| Wind direction sensor | ✓ |  |  | Wind Direction Sensor (+: core concept) |
| Temperature sensor | ✓ |  |  | Temperature Sensor (+: core concept) |
| Humidity sensor | ✓ |  |  | Humidity Sensor (+: core concept) |
| Wind speed sensor | ✓ |  |  | Wind Speed Sensor (+: core concept) |
| Clock | ✓ |  |  | Clock (+: core concept) |
| LCD display | ✓ |  |  | LCD Display (+: core concept) |
| Graphics primitive |  |  | ✓ | Attribute of LCD Display |
| Messages |  |  | ✓ | Attribute of LCD Display, Keypad |
| Current time |  |  | ✓ | Attribute of Clock |
| Date |  |  | ✓ | Attribute of Clock |
| Sampling rates |  | ✓ |  | May need a Rate class to keep the rate of wind, temperature, humidity etc… |
| User | ✓ |  |  | User (+: core concept) |
| Reported value |  |  | ✓ | ? Reports values to different classes |
| Format |  |  | ✓ | ? Interact with different classes, and more like a method. |
| Sensor | ✓ |  |  | Sensor (+: core concept) |

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| **Responsibility** | **Obvious** | **Unsure** | **Discarded** | **Comments** |
| Provide automatic monitoring |  |  | ✓ | -: Don’t model on system |
| Measure (speed, direction, ect) | ✓ |  |  | Measure (+: core) |
| Provide measurements (wind chill, tempt) | ✓ |  |  | -: Part of measure |
| Interface w/hardware | ✓ |  |  | Interface (+: core) |
| Processing graphics |  |  | ✓ | External to the system, handled by LCD |
| Drawing lines |  |  | ✓ | External to the system, handled by LCD |
| Filling regions |  |  | ✓ | External to the system, handled by LCD |
| Displaying text |  |  | ✓ | External to the system, handled by LCD |
| Determining time/date |  | ✓ |  | Determine Date (?: Attribute of report) |
| Report values | ✓ |  |  | Report Values (+: core) |
| Indicate measurements | ✓ |  |  | Indicate Measurement (+: core) |
| Direct the system | ✓ |  |  | Control Display (+: core) |
| Display value of measurement | ✓ |  |  | Display all Measurements (+: core) |
| Choose 12 or 14 hr format | ✓ |  |  | Handled by control display |
| Calibrate sensors | ✓ |  |  | -: Attribute of control display |
| Set time/date | ✓ |  |  | -: Attribute of control display |
| Requires neither calibration/history |  |  | ✓ | Not an implementation. |
| Translate actual temperatures |  |  |  | -: Attribute of interace |
| Expressed as floating number |  |  | ✓ |  |
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