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**Assignment 2 (Training part)**

**1. In your opinion, what kind of computational problems (representations, computations, structures, algorithms, …), do you have to solve when you read these specifications ? What details are not expressed in these specifications?**

1. Backed by the survey data are missing details like what types of questions and how the survey will be performed?
2. What operating system will be used by the wall to display?
3. Some characteristics were not explained, such as like Personalized sleep program, Music to improve mood, and Clothing suggestions

**2. Rewrite the specifications from the computational point of view in an informal way.**

**1.** LED is placed on the wall

Display 🡪Wallpaper (temperature\_in\_ celsius,humidity\_in\_percenatge,wind\_speed\_in\_km/h)

**3. Represents these new specifications using Class Diagrams and Sequence Diagrams. What do you notice?**

Class diagram

Table

Description automatically generated with medium confidence

Sequence Diagram

Chart, box and whisker chart

Description automatically generated

1. **Implement with the language of your choice these diagrams without assuming more than the information represented in your diagrams. What do you notice?**
2. **public** **class** Wallpaper {
3. **int** humidity, temp, windspeed;
4. **public** **int** gethumidity() {
5. **return** humidity;
6. }
7. **public** **void** sethumidity(**int** humidity) {
8. **this**.humidity = humidity;
9. }
10. **public** **int** getTemp() {
11. **return** temp;
12. }
13. **public** **void** setTemp(**int** temp) {
14. **this**.temp = temp;
15. }
16. **public** **int** getWindspeed() {
17. **return** windspeed;
18. }
19. **public** **void** setWindspeed(**int** windspeed) {
20. **this**.windspeed = windspeed;
21. }
22. **public** Wallpaper(**int** humidity, **int** temp, **int** windspeed) {
23. **super**();
24. **this**.humidity = humidity;
25. **this**.temp = temp;
26. **this**.windspeed = windspeed;
27. }
28. **public** **void** displayWallpaper() {
29. **if** (temp < 30 && humidity > 40 && windspeed > 80) {
30. System.***out***.println(" indy Weather ");
31. } **else** {
32. System.***out***.println(" Sunny weather");
33. }
34. }
35. }
36. Data type of variables was not defined that can cause issue while integrating components.
37. Logic of function is not defined.
38. How Third party we will initializing variables (It will be rest call or soap call and what would request and response parameters)