

Smart clothe

The objectives of this activity will be to develop a sensorized garment capable to monitor physiological parameters like heart rate, respiratory rate and skin temperature, while the person is performing daily activity.

- * The solution will be **wearable** during long periods of time, providing comfort to the user. This implies the garment will be **washable** and **comfortable**.
- * The solution will be **portable** and **autonomous** since the user has to be able to move out of the controlled environment. This implies long life **battery** and **wireless** communications.
- * The solution will provide **feedback to the user** in order to engage and improve the relationship. This implies **communication** with a portable interactive unit, **smartphone**.
- * The solution will be **reliable**. Guarantee no data lost in any circumstance. This implies the solution will be capable to **store local data** coming from the sensors while there is no communication with the interactive terminal.



Figure 1: Shirt design

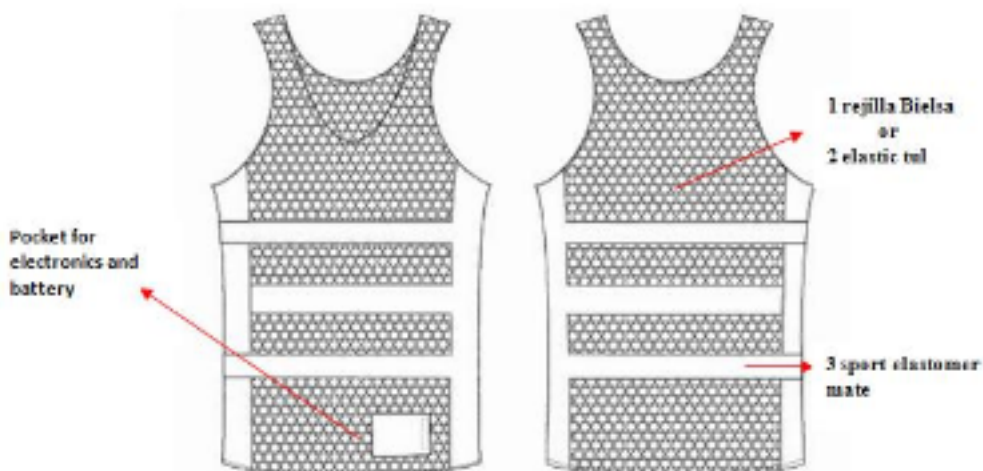


Figure 2: Design patterns and possible color combinations