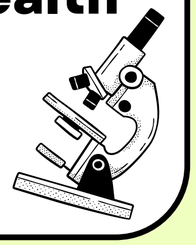
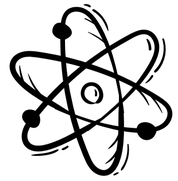
Healthy or Not? Discover Your Salad's Secrets with NutriScan!

Team 23

Our project intends to address our food choices through the use of NFC-enabled salad counters, which allow users to scan ingredients integrated with NFC tags. The tag stores information about the health index of ingredients



Generalized HI Formula



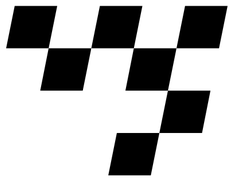
$$\text{Health Index}(HI) = \sum_{i=1}^{n} w_i \cdot s_i$$

HI = Health Index (a normalized value between 0 and 100)

n = Total number of factors considered

wi = Weight of the i-th factor (reflecting its relative importance)

si = Score of he i-th factor (reflecting the product's performance on this factor)



Procedure

1. Select the ingredients and purchase pre-measured (by weight) sachets or packets.
2. Scan all of the ingredients
3. Final result on the screen

Results

- **The buzzer effectively alerts users when the nutritional score falls less than the certain value, providing immediate feedback.**
- **The display provides clear visual indicators of nutritional status, making it easy for users to understand the feedback.**

Conclusion

IoT solutions demonstrate their ability to create awareness about the need for a balanced diet and urge individuals to follow standards that lead to a higher quality of life and well-being.

References

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