BM2210 - Biomedical Device Design - Assignment 3

Background Story: During your busy life after graduating as a Biomedical Engineer, your loving grandfather, a dementia patient, is living with you. He is usually sleeping in his bed for most of the day and has everything he needs accessible next to his bed. There is an extremely urgent work emergency that requires you to work in person tomorrow, and no one is available to look after your grandfather. You are afraid something bad might happen if your grandfather were to get out of bed. However, you have some electronics lying around. Hence, you want to create a wearable device to monitor his movements regularly to ensure nothing happens to him while you are away. Using the concepts learned about modular system design and firmware programming, your task is to assemble this modular prototype that you can ask him to wear.

(Marks - 10%)

Current Due Date is **November 10th**

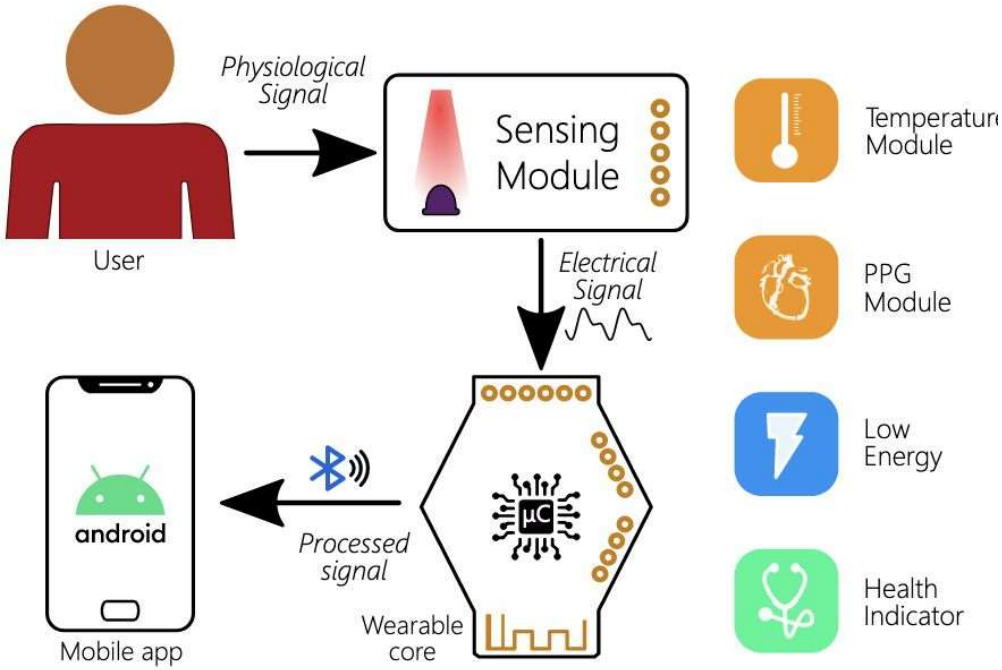

Figure 1. Block diagram of the proposed system.

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