

ERGONOMIC WIRELESS DIGITAL NOTICE BOARD

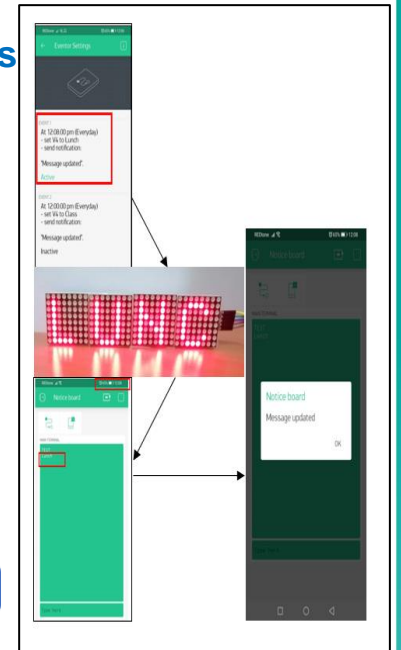
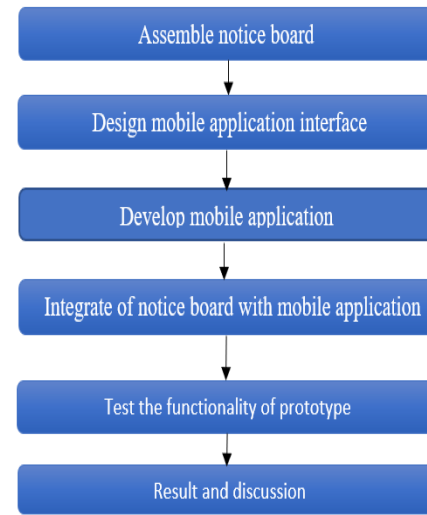
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Product Background

- This work presents the prototype of ergonomic wireless digital notice board that can be controlled by mobile application installed in Android phone. The prototype is Wi-Fi based and support long distance. Blynk application is used for the development of mobile application. The functionality and performance of the prototype is used to display messages by receiving user input texts and displays input remotely on notice board. At the end of the receiver, a low cost microcontroller board (NodeMCU) is programmed to accept and display messages on notice board. The developed system will therefore aim to share information with intended users and also to save time and cost for paper and printing equipment.

State of the Art/ Methods



Novelty/ Originality/ Inventiveness

- A ergonomic wireless digital notice board prototype that can display messages using NodeMCU with mobile application is developed.
- Existing digital notice boards were expensive and most of the government and private sectors cannot afford it.

Benefits/Usefulness/ Applicability

- This system can act as an alternative to reduce time consumption and paper wastage in delivering messages. We can deliver messages with reduced errors and enhance efficiency.

Status of Innovation

- For proof of concept, this system was successfully developed and ready to use.
- Changes or additional equipment is needed based on the place to implement this ergonomic wireless digital board.

Achievement/Award

- NO

Product Image and Product Characteristics/Results



Marketability & Commercialisation

- Can be used at any place for showing the current status of activities or availability such as at lecturer door room, clinic, shops etc
- Technology Transfer Potential- Patent of the product.
- The benefit of this system, as the cost is cheaper, most of the working sectors can use this system to deliver any information at any time

Environmental Impact

- The drawbacks of current system are requiring extra effort and wastage of paper
- No more paper used and it save the environment as no more printing equipment is needed
- No more vandalism on signage board

Publication

- Wireless Digital Notice Board (On-going)

Collaboration/Industrial Partner

- Pakar at Work

Cost Analysis

- Cost of The Product is RM100
- Price Comparison with Available Products in Market- It is more than thousand as it required database to store the data

