UNIVERSITI TEKNOLOGI MARA

FROM TRADITIONAL DRY-ERASE BOARD TO VIRTUAL CONTEXT-AWARE DIGITAL WHITEBOARD

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AUTHOR'S DECLARATION

I hereby declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated of acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any other degree or qualification.

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ABSTRACT

Context-aware is the ability of an application reacts to changes of the environment. Context-aware applications, like smart systems are rapidly developed recently. Unknowingly, context-aware applications are more common in one’s daily life. Traditional dry-erase whiteboard is an example of convention context-aware method in office environment to record staff activities. There are four (4) main problems of the usage of traditional whiteboard in displaying academic staffs’ status in the office: (1) Limited time to update the information. (2) Non-real time information. (3) Limited space to write. (4) No data storage. Therefore, a Context-aware Digital Whiteboard (CAW) is proposed to solve the problems of traditional dry-erase whiteboard in administrator office of Faculty of Computer and Mathematical Sciences (FSKM). The proposed system embeds context-aware elements that able users to be more conscious of what activities currently are going on in the workplace. In summary, the whiteboard is able to report the presence of staffs’ in related activities throughout years.
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