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DEAR SIR: SMART INTERACTIVE RESEARCH TOOL FOR STUDENTS

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Highlights: The rising of digital technological advancement in the Industrial Revolution 4.0 (IR4.0) era has consistently affected the teaching and learning (T&L) environment. Unlike traditional method of learning, e-Learning makes learning interactive, simpler, combined theoretical and practical, and more effective. Today's learners want relevant, mobile, self-paced, and personalized content. Following the similar concept, DEAR SIR was introduced to create more excitement that consequently able to generate quality graduate through scientific mindsets.

Key words: research tool, smart interactive mobile apps, research student, advanced technology

Introduction

DEAR SIR is a mobile application which acted as a research alternative tool to ensure T&L more interesting and interactive. We developed DEAR SIR application with an objective to assist university's students and amateur researchers to understand the basic idea of research processes. Even though, there are numerous of research aid available in the market, but none of them practically guide the student to comprehend how to identify and align the research issues, objectives, questions, hypotheses, and framework development. Surprisingly, very limited comprehensive research application tool can be obtained to lead us on how to classify the most crucial elements of research. Therefore, we develop DEAR SIR research tool. Evidently, the Dear SIR utilized the concept of "finding pieces of the puzzle and putting it together" to understand the complex research process to assist students and amateur researchers.

Content

1. Description of innovation / product development / design / process.

The DEAR SIR is a mobile application that used to ease students, lecturers, and amateur researcher to understand the concept of research elements. It is user friendly, systematic, structured, feasible and practical to be implemented to enhance our target group understanding and falling for research. DEAR SIR is comprehensive tool to guide users the important elements of research when reading a journal article. Currently, we have ran a pilot study to test it applicability among 8 postgraduate students at Universiti Teknologi MARA, Melaka.

2. What is the context or background of the innovation / product development / design / process?

Malaysia is guide us on how to "pull-out and write" the important element when we read an article. Apparently, the Dear SIR utilized the concept of "finding pieces of the puzzle and putting it together" to understand the complex research process to assist students and amateur researchers.

Why are they important to education? DEAR SIR is very significance because of several reasons:

- Support the Malaysia Education Blueprint 2015-2025 (Higher Education) – This innovation directly support shift 1 (holistic entrepreneurial balanced graduate), shift 9 (globalised online learning) and shift 10 (transformed higher education delivery)
- Cultivate Interest to Learn Research - DEAR SIR is an interactive research tool that able to capture student's attention and curiosity that subsequently eliminate the study difficulties. We developed this application with interesting features including colorful background, large font, user-friendly and understandable. Indirectly, it helps all education institutions to produce more researchers.
- Increase Number of Graduate on Time (GoT) - We believe if the students downloaded DEAR SIR tool, at least 1% of students will graduate on time. It is university's requirement to increase more GoT students, decrease dropout rates and achieve its organisational performance excellence.

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