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U-Module and ReadPen

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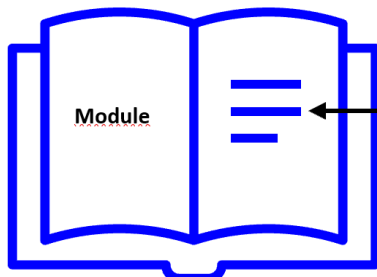UNIVERSITY: UNIVERSITI MALAYSIA PAHANG
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Universiti Malaysia PAHANG
Engineering • Technology • Creativity

Product Background

- U-Module and ReadPen is a combination of module with read pen which is meant for university students to read book/ module anytime with a built in speaker on the pen.

- U-Module and ReadPen provides definition (synonym) and also translation of the sentences into several languages. For example, from English to Malay.

- The most interesting part of U-Module and ReadPen is that it starts the narration audio and translation from anywhere the consumer want, by just pointing the pen on any sentences in the textbook.

U-Module and ReadPen

Module

- Definition of certain keywords.
- Translation on the sentence.
- Voice over.

- Volume button.
- Earphone plug.
- USB charging port.
- Speaker.
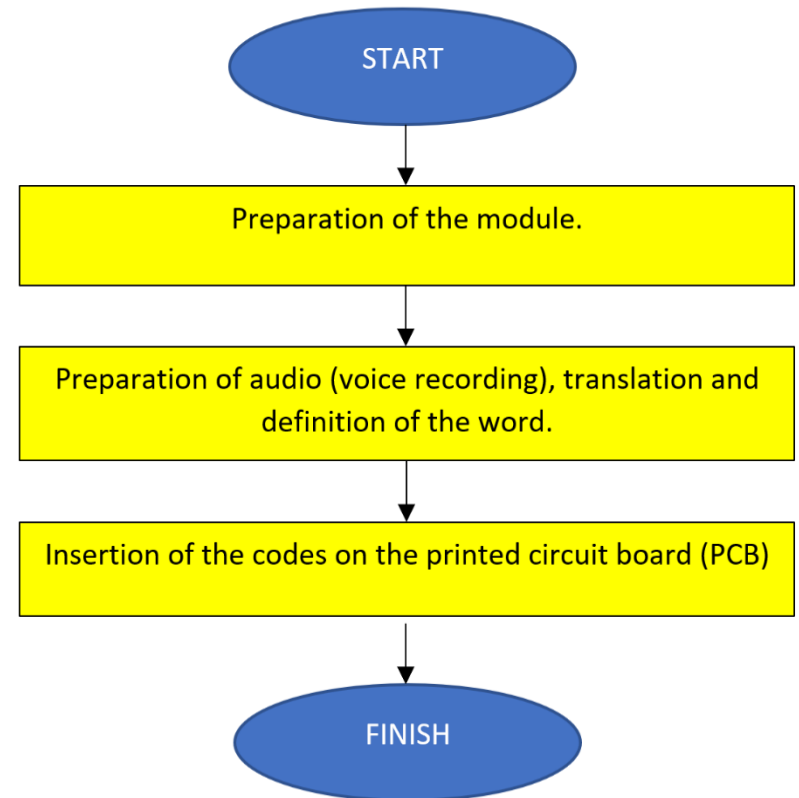
Innovativeness

- Produce innovative learning module with audio that assists students to comprehend the content and improve the pronunciation and better understanding of the content.

Benefits/Usefulness/ Applicability

- Due to Covid-19 pandemic, students in rural area or students with low internet connection will not be left out from mainstream education system.

- It helps to improve students' learning materials rather than using conventional book or any online sources.

- Promote independent learning.

- Students can just read, listen, translate the sentences and define the words using the ReadPen by pointing the pen on any sentences in the book.

State of the Art

START

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Preparation of the module.

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Preparation of audio (voice recording), translation and definition of the word.

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Insertion of the codes on the printed circuit board (PCB)

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FINISH

Product Features

- Point and read at any sentences.
- 3 language translations (Malay, Mandarin, Tamil).
- Module audio translations.
- Monolingual dictionaries providing definitions of words.
- Control volume from pen.
- Pen, built-in rechargeable battery with charger.

Status of Innovation

- Preparation of the voice over audio on the content of the module.

- Translation of the text into several target language.

Marketability & Commercialisation

- Students
- Lecturers
- Teachers
- Universities
- Schools
- Libraries

Cost Analysis

- Estimated cost of the U-Module and ReadPen: RM 240.00 per product. (In bulk it may cause much cheaper than this estimated cost).

Collaboration/Industrial Partner

ENMAC

ENMAC Technology (M) Sdn Bhd