TAMIL TO TAMIL E-DICTIONARY WITH EXAM BOARD COMPLIANCE

Brief Description of the Drawing

The disclosure is herein described, only through examples, with reference to the accompanying drawings. With specific reference now to the drawings in detail, it is stressed that the particulars shown are by way of example and for purposes of illustrative discussion of the preferred embodiments of the present disclosure only and are presented to provide what is believed to be the most useful and readily understood description of the principles and conceptual aspects of the disclosure. In this regard, no attempt is made to show structural details of the disclosure in more detail than is necessary for a fundamental understanding of the disclosure, the description taken with the drawings making apparent to those skilled in the art how the several forms of the disclosure may be embodied in practice. In the drawings:

Figure 1: is an isometric view of a portable electronic dictionary accordingly to the present invention.

Flow Diagrams are included in the detailed description for better understanding of data communication within the proposed device as well as data communication between the user and proposed device. In the Flow Diagrams presented:

Flow Diagram 1: is data communication and process flow diagram between various modules.

Flow Diagram 2: is data communication and process flow diagram between user input and device output.

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Detail Description of Preferred Embodiments

The following detailed description provides a preferred embodiment of the invention about accompanying drawings.

As shown in Figure -1, the disclosed invention comprises LCD screen, [100], Physical Keyboard [120], Body [130], Power on/off switch [140], Audio output port [150], Power Charging Port [160] and Light Sensor [170].

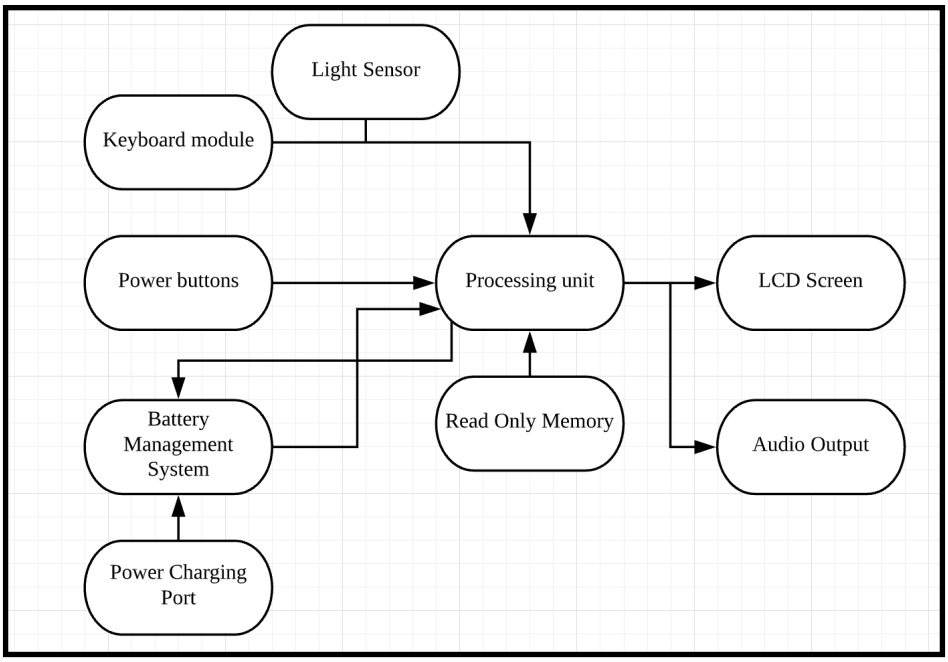
LCD screen [100] will be 3.2 inches diagonally, ensuring clear and quality images/texts could be seen by the user. The brightness of the LCD screen will be controlled by getting environmental feedback such as light intensity of the surrounding using the light sensor [170]. For future versions, the LCD screen could potentially be replaced with LED or OLED displays. Additionally, the entire screen could be replaced with a Touch Screen module which allows the user to interact directly with the screen to type out the words to search for meanings of the respective words.

Physical Keyboard [120] will be designed with Various Buttons for Tamil Characters, Enter Button, Back Space Button, Shift Button, Space Bar, Scroll Bar, Numbers, Special Characters and Symbol to form Search String.

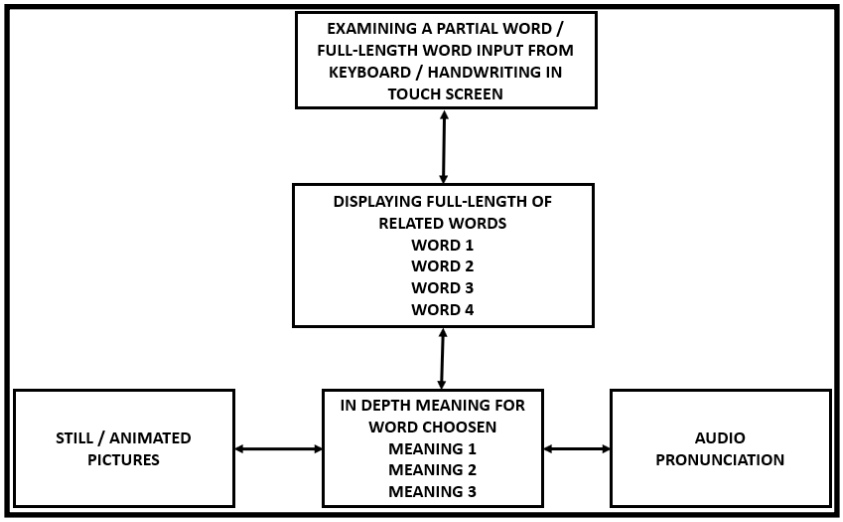
Body [130] will be comprised with Physical Keyboard [120], Electronic Circuit Boards, Permanent and Temporary Memory Chips, Power Control Device, Rechargeable Battery, Audio Output Port [150], Charging Port [160] which comprises, USB, USB mini, Micro USB, USB A type, USB B type, USB C type etc and Mechanism to communicate and hold the assembly of LCD screen [100]. In future, a mini camera will be attached next to the light sensor or in an optimal location within the body of the device to make way for hand recognition sensing capabilities.

As shown in Flow diagram 1, the flow diagram describes the data communication between various Physical and Virtual Modules such as Language Keyboard, LCD Screen, Read only memory, Processing unit, various buttons which includes the power buttons as well as the keyboard, the light sensor and the in-built battery management system as well as the charging port.

As shown in Flow Diagram 2, the flow diagram describes the functions between Input and Output of word and meaning search and display which also includes certain functionalities of future models



Flow Diagram 1



Flow Diagram 2

Claims:

In this Invention on **Tamil to Tamil E-Dictionary with Exam Board Compliance**, The claims are as follows:

1. The disclosed invention (hereinafter called as Claim 1) comprises of LCD Screen [100], Body [130] which further comprises with Physical Keyboard [120], Electronic Circuit Boards, Permanent and Temporary Memory Chips and Processor, Power Control Device [140], Rechargeable Battery, Audio Output Port [150], Charging Port [160] and Mechanism to communicate and hold the assembly of LCD Screen [100].
2. Future enhancements for claim 1 would include Touch Screen (not limited to the dimensions given in detailed description), Body which further comprises with Physical Keyboard, Electronic Circuit Boards, Permanent and Temporary Memory Chips and Processor, Power Control Device, Rechargeable Battery, Audio Output Port, Charging Port and Mechanism to communicate and hold the assembly of Touch Screen
3. Touch Screen will be designed with the latest technology to respond to Multi-touch, Single Tap and Double Tap, Touch and Hold, Drag, Swipe and Pinch operations by the fingers of user. It will also respond to the inputs from Stylus pen.
4. Claim 1 will have Permanent Memory Hardware to store all the Characters, Words, System of Units with future models including Audio Pronunciation of Tamil Language as well
5. Claim 1 will have Tamil Words and their Meanings through its software
6. Claim 1 will be designed with Waterproof, Wire and Wireless Charging Mechanisms including Solar Power Charging.
7. Claim 1 will not have any permanent storing and retrieval option by the user in consideration with exam regulation.
8. Future enhancements would include the body of Claim 1 to be designed without a physical keyboard, handwriting recognition and touch screen technology, audio output port to connect with Earpiece and will not have any speakers in compliance with Exam Board

9. The Same technology and designs described above could be extrapolated for e-dictionaries of other languages as well

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