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Digi Slate

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Abstract: Kids may not show interest in the present conventional system of learning and teaching methods and may not focus. To enhance the existing methods we propose an approach “DIGI SLATE” which teaches them in a passionate way. where they can trace alpha numeric’s on a touch panel under which the led board is placed, where the alpha numeric’s are displayed, on tracing and they will find easy way to write and pronounce through the inbuilt speaker. so, that children can grab the content very effectively, Since children under the age group of 3 to 5 are attracted towards the electronic gadgets.

Keywords: Dig slate, Alpha numeric’s, literacy rate.

I. INTRODUCTION

Now a day’s INDIA is becoming digitalized country, and technology has been increasing day by day. so, the children at the age group of 3 to 5 years are fascinated towards the electronic gadgets, so the digislate will them in studying the Alpha-numeric’s. Now-a-days, as both the parents are busy in their works and cannot spend time to nurture their kids can adopt this. As literacy rate in India is not cent percent, the kids whose parents are illiterate can adopt this. As Scribbling pad is already available in the market where we can scribble like book. Where as in digislate they can follow the sequential pattern of both the alphabets and numeric’s. The scribbling pad does not consist of any speaker, where as in digislate we have the inbuilt speaker to pronounce the alpha numeric’s

II. EXISTING TECHNOLOGY

Scribbling pad is already available in the market where in we can scribble like book. This design is available in the form of Product, but the product cost is too high. The other issue id that no output in terms of display in the existing design. Finally the existing design is available with one application of pressing the lettrs. only price, no rural people availability, high end technology, no different modes of operation

III. PROBLEMS IN THE EXISTING DESIGN

The scribbling pad does not consist of any additional speaker, where as in the digi slate we have the inbuilt speaker to pronounce the alpha numerical characters. Only single mode of operation, bulk in size, design complexity.

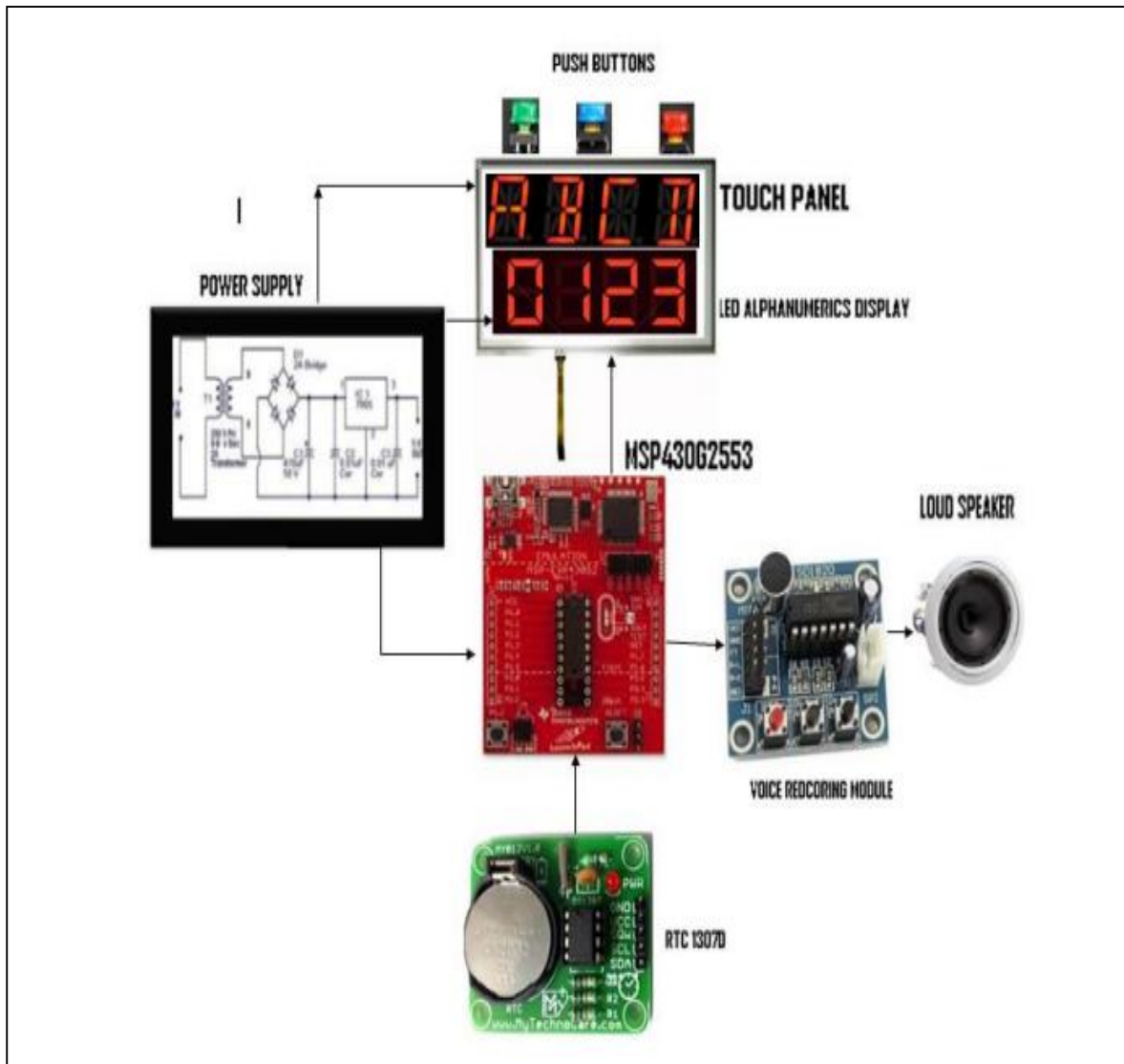
IV. PROPOSED DESIGN

In the proposed design we have the three different modes of operation..Which can enable the mode of operation in learning, practice and testing? Different modes how things can be enabled by using the RTC 1307D.

V. WORKING PRINCIPLE & OPERATION

The narrative approach has advanced notability like changing the mode of operations of learning mode, sequential mode and testing mode. During first mode, LED showcases the alphanumeric, where ever the figure touches the touch panel. Therefore we can familiarize the kids to learn by themselves by hearing the phonic sounds. During sequential mode even though when the kid touches anywhere on the touch panel the alphanumeric will be displayed in the sequential order and the phonic sound is heard. During the test mode kid can be tested by their parents or by teachers. Initially characters will not be displaced, but when the kid touches the touch panel the character is displayed and the phonic sound is not heard in this mode. All this three modes of operation can be done using the RTC 1307D.

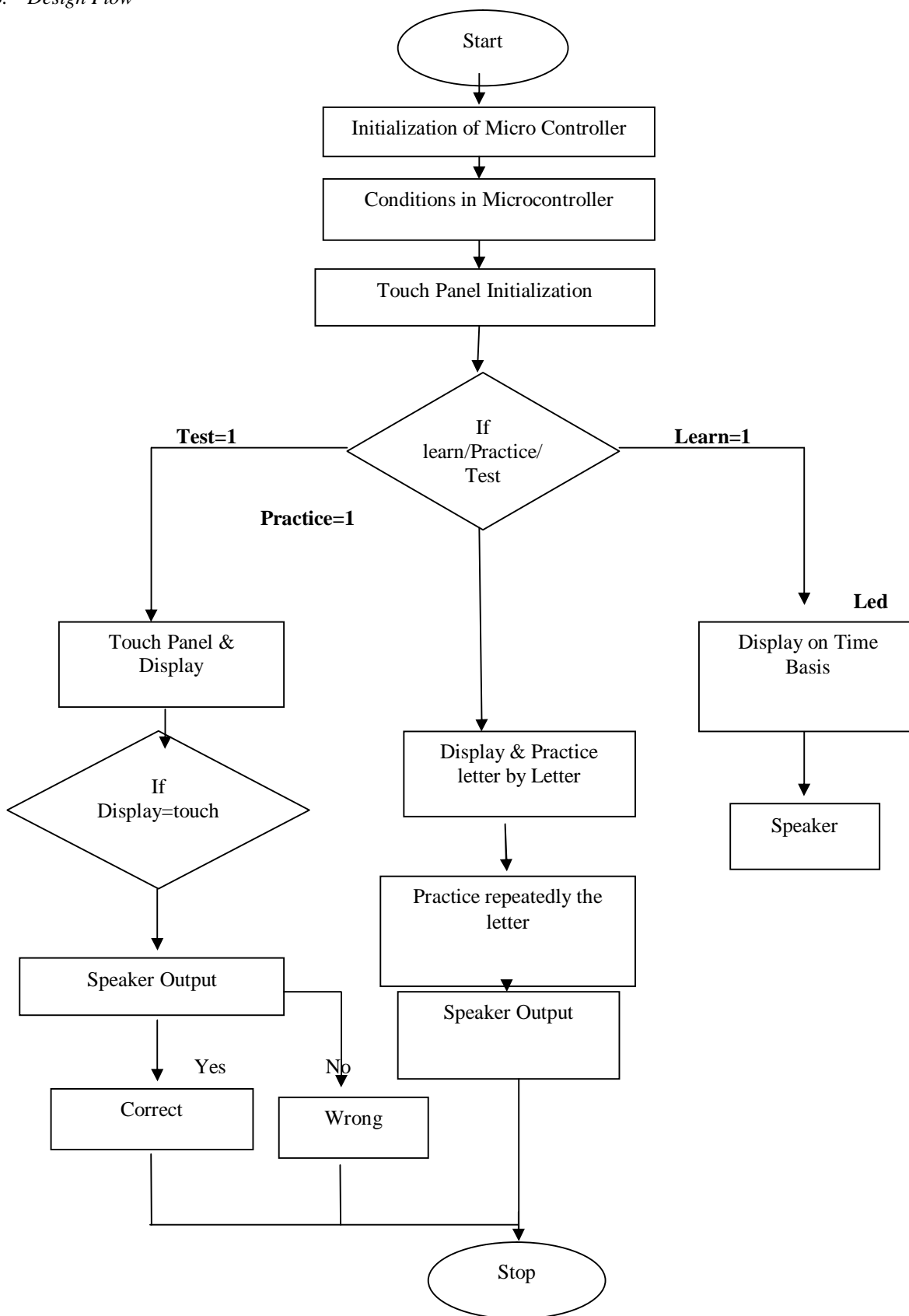
A. Block Diagram



This digital slate provides the awareness among the children and will habituate to the technology. As it is a touch screen based learning it is easy to learn the alpha numerics. For all the three modes of operations the module is interfaced with speaker, where we can hear the sounds of alpha numerics. As we are having three modes of operations in this technology the three modes (learning mode, sequential mode and text mode) can be changed according to the user. To increase the literacy rate in India and it leads to the “Make In India”. By using this technology kids can hear the phonic sounds and can recognize the alphanumeric characters. Service addressable market for our products is the kids declining under the age group of 3 to 5 years to increase the literacy rate of India.

- 1) *Customer Need Identification:* The kids who are at the initial stage of learning (3 to 5 years) and those whose parents are illiterate can adopt this digital slate. Now-a-days, as both the parents are busy in their work and cannot spare time to nurture their kids. As the literacy rate of India is not cent percent, the kids whose parents are illiterate can adopt this.
- 2) *Serviceable Addressable Market (SAM) Identification & Justification:* The Serviceable Addressable Market for our product is the kids falling under the age of 3 to 5 to increase the literacy rate of India to step towards Make In India.
- 3) *Distribution Channel Identification:* This product is mainly centered on the kids under the age of 3 to 5 mainly to increase, the literacy rate in an interesting and playful way. So we will be conducting workshop to create awareness in government aided schools, government organizations.

B. Design Flow





VI. CONCLUSION

So to make the India digitalized and habituating the kids by digital learning, we can eradicate the illiteracy and increase the literacy rate in this passion the Digislate is more useful. This design helps the students learn & habituate the technology and learn alphanumeric quickly. Therefore Literacy rate can be improved in rural villages. Finally it proves the best solution in view of make in India context.

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