Design & Implement a Dynamic & Adaptive Grammar Learning Tools

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Highlights: Design and Implement a Dynamic & Adaptive Grammar Learning Tool is aimed to identify the level of students learning in grammar precisely in tense. The learning process is well adapted into the mobile smartphones and tablets application especially for android users as an attractive and dynamic tool. This project is exposed to the adaptability of students based on their level of understanding in Grammar, thus can help and improves their grammar effectively.

Key words: Grammar, Education, Dynamic, Adaptive, Mobile, Interactive, Technology.

Introduction
A dynamic and adaptive Grammar Learning Tool for Tertiary Students’ is aimed to identify the knowledge level of students in the process of learning grammar and guide the students accordingly. Dynamic and adaptive are the prominent features for designing any learning system. There are some approaches available for language learning such as classroom oriented, E-learning, mobile assisted language learning, computer assisted language learning. The common problem in all those system is lack of dynamic and adaptive features that did not address the proper knowledge sharing through the proper training.
In this project, we will introduce such a technique for grammar learning that is capable of solving few major problems. The learning process is well adapted into the mobile smartphones and tablets applications especially for android users as an attractive and dynamic learning tool. The application is designed with a view to few purposes. Firstly, it will ease the face to face learning process with the assistance of using different gadgets i.e., smart phones unlike traditional classroom.

Secondly, the tool is a support to the feedback of the learners which has the options of more usability and flexibility. Thirdly, the evaluation system of the application is so interesting and dynamic that it helps the students to build up the confidence in the learning and using the grammar learning tool. We have done an extensive survey in order to justify the feasibility of this proposal. The experimental result proof the effectiveness of the work.

**Description of the innovation**
The students are special and they need an attention regarding in their studies. This because all student have unique learning abilities. Within this approach, A Dynamic and Adaptive Grammar Learning Tool is proposed because of its features provided. Grammar learning tool’s name is ‘Oh My Past Tense’ application that can be download from play store or any free source so that the student can have some understanding in grammar for better.

The innovation of this application is suitable in education system nowadays because of its dynamicity and adaptability. It suits the students well as the student is unique. Furthermore, Adaptability means that the notes are dynamic and suits with different level of students
and could provide a dynamic assessment and evaluation for student to test their understanding by reading the notes given, thus, it will enhance the knowledge of the students.

These innovation uses mobile android as a platform because of the suitability of the software and the hardware and the way to publish it to make thing easier. Technologies became something important as they make the learning process become more attractive. One of the examples of using technologies to enhance learning processes are by using smartphones. Smartphone devices are easily accessible, cheap and easy to carry within a small unit of size (Ahmed, Raza, & Sadik, 2014). Therefore, using a mobile application can be a good platform of learning as students seem that they can’t be separated with their own gadgets. And with those reasons, we could use mobile devices as a platform to let the students explore more about English grammars.
Objectives Learning

Upon the completion of this course, student will have the ability to:

- Student can understand past tense in easy way.
- Differentiate the used of past tense and any other tenses.
- Answer grammar test and any other tests.
Figure 1: Example of Design and Implement a Dynamic and Adaptive Grammar Learning Tool interfaces.

Important to Community
The learning method has been improved to another level from classroom system learning to standalone learning in computer, internet and other networks. From
previous, the classroom system learning provides one shot learning of the two-way-communication between the students and the tutor. The tutor may teaches one or two chapter in a class and the class is dismissed. So, it shows that they assume all the students level are the same. It means that the lower students will be missed and not understand if the tutor teach them in moderate level or higher level. Thus, even though the learning is face to face communication environment, the limitation has always been an obstacle (Tenriawaru, Djunaidy, & Siahaan, 2014).

A Design and Implement a Dynamic & Adaptive Grammar Learning Tool is helping the students in understanding and gain input of grammar through an interactive application. With the current learning, it could help a lot in class or personally. It also can reduce the use of internet data as it was a free internet loading and no advertisement that really could smooth the application being use by the students.

**Advantage of the application**
The advantages of Design and Implement a Dynamic & Adaptive Grammar Learning Tool is it was implement the dynamicity and adaptability suits with the student level. It help a lot with the student who are weak, moderate and professional. These application could divides these level of students with the 3 different of notes and evaluation. The cost of the innovation is considerably cheap rather than E-Learning and any other grammar mobile application.

**Marketability and Profitability**
These innovation gave the high impact with the affordable price that can be used for all level of students. This application is aimed to be in line with the
existing mobile learning application by providing major improvement that will increase the efficiency and reliability of the education system. Moreover, it really a helpful tool for grammar learning for the students. It can provide the optimum input for each students so that they will have better knowledge in grammar. The existing mobile learning system did not have an adaptive and dynamic evaluation for each students. Therefore, the marketability of this product will be raised as this product is the new innovation to replace the obsolete learning system.

References


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