AI Answer Verifier

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Abstract - *An automatic answer checker application that checks and marks written answers similar to a human being. This software application is built to check subjective answers in an online examination and allocate marks to the user after verifying the answer. The system requires you to store the original answer for the system. This facility is provided to the admin. The admin may insert questions and respective subjective answers in the system. These answers are stored as notepad files. When a user takes the test he is provided with questions and area to type his answers. Once the user enters his/her answers the system then compares this answer to original answer written in database and allocates marks accordingly. Both the answers need not be exactly same word to word. The system consists if in build artificial intelligence sensors that verify answers and allocate marks accordingly as good as a human being.*

***Key Words*: Subjective, Database, Assessment, Sensor, Module**

1. INTRODUCTION:

Examinations are of two types-descriptive or objective. Every examination need to be evaluated. Competitive examination are of objective types they are conducted on machine and evaluated on machine also. These systems are very useful in terms of saving resource. It has been observed that there is no provision to extends these systems to subjective questions. Due to some problems these systems cannot be used in board examination where students write subjective answers .AI answer verifier systems will be able to check subjective answer written by student in an examination. It will allocate marks accordingly as good as human being. It will help to reduce the wastage of resources like papers and much more things. It will also overcome human limitations and speed up the overall education system. Our main aim of the system is that it will be helpful in various universities in academics for conducting class test, unit test and final exams.

1.1. Literature Survey:

[1] Sheeba Praveen, Published in International Journal of Innovative Research in Computer and Communication Engineering. Vol. 2, Issue 11, November 2014.As observed that these systems contain only multiple choice questions and there was no provision to extend these systems to subjective questions. The paper presents an approach to check the degree of learning of the student/learner, by evaluating their descriptive exam answer sheets. By representing the descriptive answer in the form of graph and comparing it with standard answer are the key steps in our approach. Main drawback of the system will be Non Mathematical subjects only. Less efficiency in similarity matching. Multiple sentence answers are difficult to grade.

1. 2. Proposed System:

In earlier system both answers need to be same word to word but in proposed systems answers need not to be same.

The newly proposed system consists of in built artificial intelligence sensors that verify answers and allocate marks accordingly as good as a human being

2. Modules:

1. User Registration/ Login: User taking the test must first create an account in the system by registering themselves and then can login into the account to take test.

2. Admin Login: Admin would be having a login account. He can add questions in the system and their respective answers. The answers are stored as a base for reference for AI to use while checking answers.

3. Answer checking: The system checks the answer by matching the keywords in original and users answer. The other factors are the number of sentences or points that user has written.

4. Answer marks allocation: The marking criteria is decided by the admin and stored in the system for reference. AI uses these references and allots respective marks to the user.

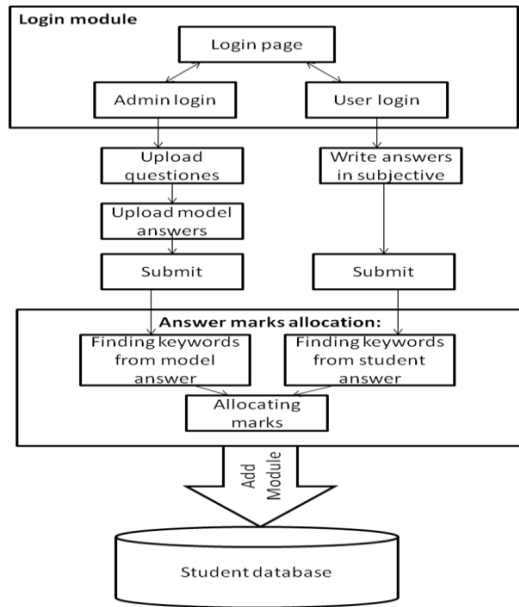5. Question answer addition: Admin can add questions from the system.

Fig -1: Architectural Diagram

3. CONCLUSIONS

1. Third party tool can be used for the grammar checking and spell checking module for better accuracy. With proper grammar checker the algorithm can also support compound and complex answers.

2. The spell checker module provides limited relaxation to the students. The available relaxation rules should vary according to different questions. There is provision to insert words in the files. New words can be added for new question-answer sets accordingly. The files can be upgraded so that the design can support a wide variety of answers.

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