Descriptive Answer Evaluation Using NLP

08/04/2022
- Topic selection
- Feasibility study

06/04/2022
- Abstract submission
- Reference papers:An Examination System Automation Using NLP. (Bharat Sharma,Indrashis Das),2019 IEEE

28/04/2022
- Project topic approval

03/05/2022
- First scrum meeting
- Activities:
  - ☐ Existing system
  - ☐ Proposed system
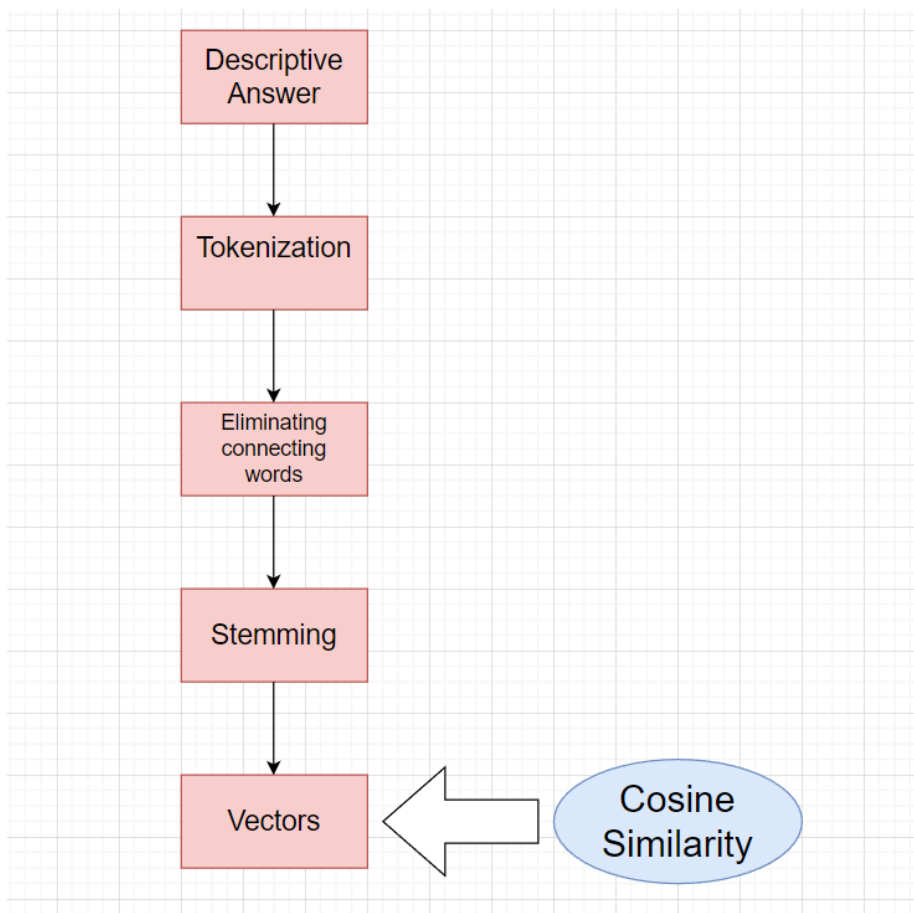 - ☐ Workflow diagram

Existing System

- The current descriptive exam evaluation system is done by the teachers manually.
- It is a very time consuming process.and also having a lot of manpower.
- Evaluation also depends on the knowledge,mood,and work pressure of the evaluator.

Proposed system

- The online descriptive exams are evaluated by the computer using NLP.
- The computer takes the answer key of the exam and checks the similarity of the answer and gives appropriate marks.
- The mark is given by using the answer key provided,length of the answer,grammar of the sentences.
- More suitable for science subjects.
- It is done in minimal time and saves a lot of manpower.
- The awarded mark will be accurate and precise.

Workflow Diagram

Descriptive Answer → Tokenization → Eliminating connecting words → Stemming → Vectors ← Cosine Similarity

08/05/2022

- 2nd Scrum meeting
- Interface Design Completed

10/05/2022

- Implementation started

21/05/2022

- 3 rd scrum meeting
- Front end development completed using python flask
- Back end development stated

1/06/2022

- Back end development completed using Mysql

10/06/2022

- NLP implementation using python nltk package

20/06/2022

- 4 th scrum meeting
- Unit testing completed.
- Integration testing completed.

25/06/2022

- System testing and validation completed.
- 5 th scrum meeting