

Software Engineering - One Page Write-up

Test-At-Ease

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Problem Analysis:

Online Tests are the New Normal. Professors all over the world had to face a lot of issues while making online Quizzes. Questions from various sources had to be put together in forms that gave no option to edit the text or the images in the question, thus leaving the professors constrained and little room to innovate. With there being no single platform to store and retrieve past Questions, they had to haphazardly search for questions all around.

Proposed Solution:

Our team has come up with an online platform as a solution to this problem. Test-At-Ease is an online platform that would allow the professors to make Question Paper with the option of editing the Questions and Images in an efficient manner.

The purpose of Test-At-Ease, at a University level, is to Create Tests, Store and Edit Questions, and to Analyze Students' performance in the past tests.

The teacher LOG-IN using third-party authentication (Google) and the login RESPONSE is sent back to the teacher.

The teacher CREATES A QUIZ, with an option to ADD AN EXISTING QUESTION or UPLOAD A NEW QUESTION.

On Uploading a New Question, the teacher gets a facility to edit the Question text and/or the text in the diagrams/tables associated with the newly uploaded Question and then save it into the Database with the TOPIC TAGS or add it into the current Test Form.

On selecting the ADD AN EXISTING QUESTION alternative, the teacher can search for a Question using TOPIC TAGS, and on selecting a Question from the database, the same process as on uploading a New Question can be followed.

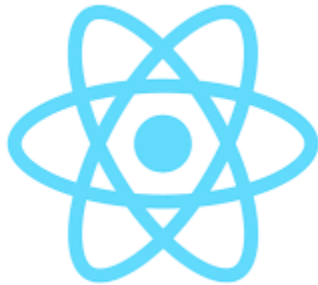
Upon finishing the test Creation, using our own form utility or a third-party tool such as Google Forms all the selected Questions can be shared further with the students.

Test-At-Ease also provides the feature to the professor to analyse the result of the students.

They can UPLOAD THE CSV FILE and get the graphs comprehensively depicting the analysis of the score.

Tech Stack Used:

- ReactJs



- NodeJS



- Tesseract OCR



- OpenCV



- Flask



- Python

