

Quiz App with Proctoring

SDP project by Omkar Kulkarni

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Background

Overview of the project

- Need for digital tests
- Provides digital tests(MCQs) platform



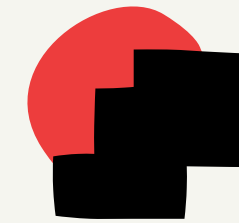


The Problem



What we want to solve

Tests on paper lead to wastage of paper thus harming the environment.



Hypothesis

Creating a digital testing platform that will solve the problem stated above, i.e. paper wastage.



Objectives

What we want to achieve

- Provide an easy to use platform
- Graphical User Interface
- Logins for examiner and examinee
- Tests and Students to be added by the examiner after logging in
- Shuffled questions and options
- Direct report generation of evaluation
- Keeping records of all tests given
- Proctoring the examinee during test



Significance of the Project



In terms of scope

Conducting quizzes,
MCQ-based tests,
Surveys, etc.

In terms of resources

All python libraries
used are open source,
thus are free for use.

It reduces the
requirement of human
resources needed for
evaluation.

In terms of time

It reduces the time
needed for evaluation
and report making.





Methodology



The First Step

Create a list of functions and tasks your application should perform

The Second Step

Design a Graphical User Interface with keeping the list created in step 1 and user point of view

The Third Step

Do the logical programming for the tasks you want to perform and for when to perform

Tools Used

VS Code

Python Language

MySQL





Libraries Used

Tkinter

Used for implementing
Graphical User
Interface

mysql.connector

Used for establishing a
connection between
the application and
MySQL database

Datetime

Used to get current
date and time for to be
used in report and for
timer in the test



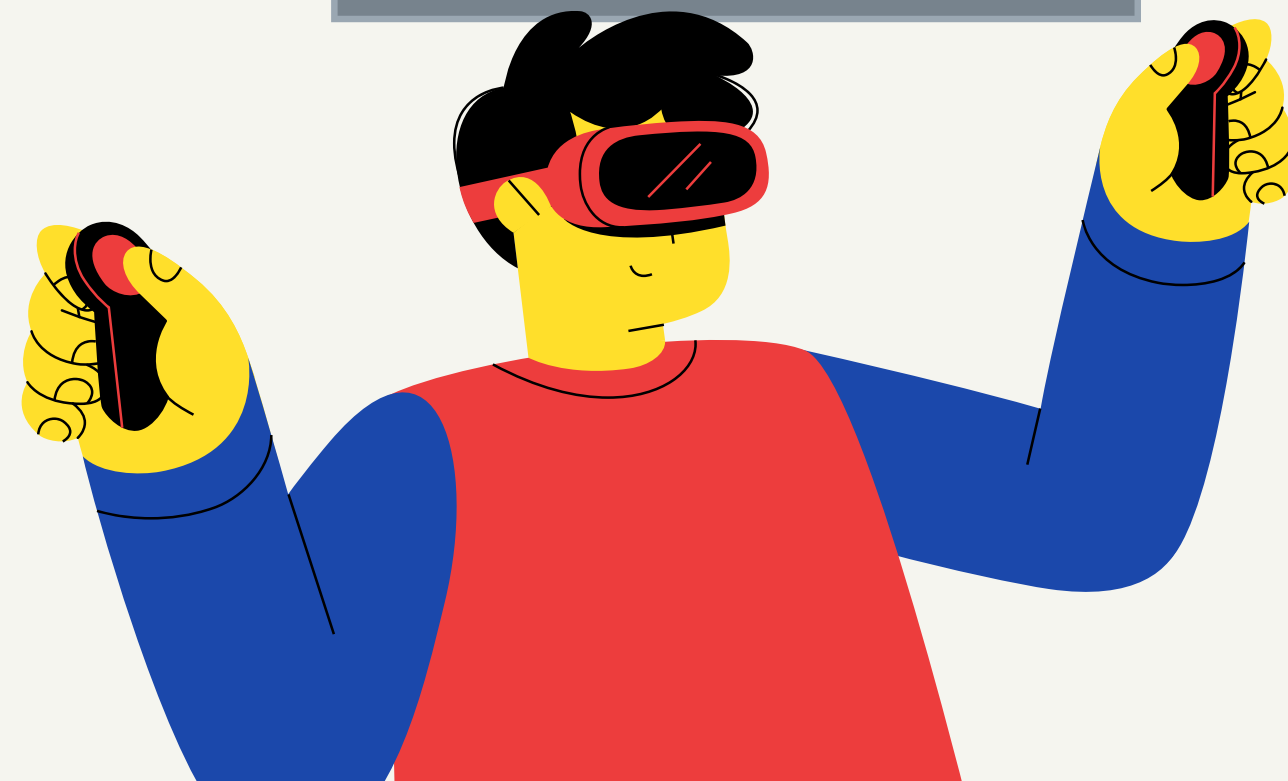
Results



An easy to
use GUI
based
application
developed

Admin and
Student logins
provided for
security and
authentication
purpose

The application
could create and
display a report
immediately
after test
submission



Main Menu

Admin Menu

Student Menu

Exit

Admin login

Enter Username

Enter Password

Login

Add Student Portal

Enter Student Name

Omkar Kulkarni

Enter Roll Number

57

Enter Username

omni

Enter Password

1234

Submit

Admin Menu

Add Test

Add Student

Back to Main Menu

Exit

Enter question 1 text:

Which is the pink city of India?

Enter correct option:

Jaipur

Enter 2nd option:

Delhi

Enter 3rd option:

Patna

Enter 4th option:

Bangalore

Add

Student login

Enter Username

ok

Enter Password

Login

Student Menu

Enter Test Name

Back to Main Menu

View Test Details

GK

00mins 52secs left

Question 2

Which is the tallest mountain in the world?

Kanchanjunga

Mount Peak

Kalsubai

Mount Everest

Submit

Test Details

GK

Total Marks: 10

Test Duration: 10 mins

Number of Questions: 5

Student's Username: omni

Back

Start Test

*Omkar Kulkarni gk - Notepad PREVIEW

File

Edit

View

GK REPORT

Record ID: 1

Student's Name: Omkar Kulkarni

Roll Number: 57

Total Marks: 10

Obtained Marks: 10.0

Time: 2022-01-15 00:55:25.585567

Remarks: PASS

Future Scope

- We can add voice-controlled tests for specially-abled students
- With further modifications, it can become more secure and easy to use
- A feature to add images to questions and options can be added



References

- <https://docs.python.org/3/library/datetime.html>
- <https://docs.python.org/3/library/tkinter.html>
- <https://code-projects.org/quiz-app-in-python-with-source-code/>
- <https://ieeexplore.ieee.org/document/9342585>



Thank You!