The Operation of the "Quiz Test Application Using Python Studio"

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Abstract-Purpose: This paper shows the working of python App this quiz application. Also, it gives the processes which happen in the supply quiz industry.The main aim of this research paper is quiz app software and technology. The analysis should include market and users need in order to be able to fabricate the quiz application and make it available for users as a helpful utility and entertaining application. This research paper is mainly motivated to solve certain problems related, for example, to disable student and in general to collaborative learning. In general the Project & Title will be selected from various sources and send it. to the top like the Project Title along with a bud ese new of the Project in a document called Project Abstract The HOD will accepts the Project and allows the student to proceed and start working on the Project In the middle of the Project designing the HOD also makes a proudest to the Student in and the Sample Code of any medal as well. And at the final the Studies has porcine the cells Documents like Project Final Document. Source Code and all the content in a Compact Dock (CD) and to the HOD along with printed and copy The HOD will see all these documents and finishes the Project Review and enters the Marks to the College records Thus we selected e-Project Submission as our Project to reduce.

Keywords- Quiz,Python,Application

I.INTRODUCTION

Python provides a standard GUI framework Tkinter which is used to develop fast and easy GUI applications. Here we will be developing a simple multiple-choice quiz in python with GUI. We will be creating a multiple choice quiz in Python with Tkinter. First, we will create a library named Quiz in the directory of your preference.

Quiz is a type of game in which players (as individuals or in teams) try to answer questions correctly. Quizzes are also used in education and similar fields to improve the growth of someone's knowledge, abilities, and/or skills. Quizzes are usually scored in points. Many quizzes are designed for people to determine the winner of a group of participants - usually the participant with the highest score.

1. Creating the GUI using Tkinter in quiz.py
- Importing the module: tinker and json
- Create the main window (container) of the app
- Add widgets to display data
- Add the functionalities to the button Using the data in the Quiz

2. Generate Data:
Below, you can find the code to generate different lists to be passed on to the quiz. The class takes a Data Frame (df), the number of questions (num_ques), and form (Selecting a times New Roman word for a given English word or vice a versa) as inputs. The vocabulary is extracted from an Excel file containing two columns

3. Import random class GenerateData:
```
def init
____(self,df,num_ques,form):self.df=df
    self. Num_ques =
    num_quesself.form=form
```

4. About the system:
The Quiz App In Python is a simple project for taking and giving the examination online. The project contains an admin side and the user side. The admin can add the quiz questions. The users can directly enter the quiz program. To add questions, the user must log in first. Moreover, the project file contains python scripts (quiz.py) and JSON files.

In addition, about the features of the Online Quiz system, it just contains both the admin section and the user section. Plus, admin can add questions while the user can log in to give the exam. The design of this project is pretty simple so that the user won't find any difficulties while working on it.

5. Overall Description:
The Quiz Application In Python is written in python programming language, This Simple Quiz On Python

Programming is a simple project for testing one's knowledge power in the given topic examination. The project Quiz in Python contains only the user side. The user must log in or sign up first to start the Quiz on Python. Also, there is a time duration set for solving the questions

6. Schedule:
Software Engineering is an establishment of sound engineering principles in order to obtain economical software that is reliable and works efficiently on real machine. We have used classic life cycle paradigm also called "Water fall model". For software engineering which is sequential approach to software development that begins at the system level and progress through analysis, design, coding, testing and maintenance.

We had completed system engineering and analysis by the end of Sept which encompasses requirement gathering at the system level in the small amount of top- level design analysis. We had completed software requirement analysis by the mid of February 2021 which encompasses both system and software requirement gathering. By the end of June 2021we had completed the project planning and design.

On the basis of design prepared in the previous stage by the end of June 2021 we completed coding stage.After completion of coding stage the important part of the software dev elopement is carried out, which is the testing phase by the mid of. Various criteria's of testing were taken in account has unit testing, integration testing, validation testing and system testing.

First, each and every module of the project was tested under the unit testing. After unit testing, integration testing was carried out by integrating all module tested in unit testing. After unit testing the module prepared was cross checked with the design. At last the whole module was tested over the system and desired result was obtained.

7. Software Requirements:
Programming Language –
* Software Application: - python studio
* Computer Language – python

This project is Python based on quiz Application

II. REQUIREMENTS ANALYSIS

1. Problem Statement:
Quiz System is accessed by entering the username and e-mail id which is added to the database. Before start of the Quiz, the rules and regulations are displayed that includes description of time limit, number of questions to be answered and scoring methods.Quiz is started by displaying ten questions with four options each based on

category chosen general Knowledge, Verbal Reasoning and Computer Science.
If the answer is correct, scores incremented by two and no negative marks for wrong answers. If the time exceeds 10minutes or all the questions are answered the quiz is stopped.Final score will be displayed and updated in the database with username

2. Objectives:
* Students tend to actually read the material.
* Students show up for class on time since the quiz always comes first
* Students are placed in the right attitude for learning.
* Students feel more confident to discuss the material.
* Students raise their grades by simply reading the material.

3. Constraints:
Customer Performance portal projects main idea is to implement a software application for organization which will update differentsections of Quiz performance and grading with appraisals.Using this application Quiz Application can easily analyze details and help them for recruiting new quiz. This application also is used for project leaders to understand performance of their team by analyzing the task allocated and information of work completed in given time based on their performance grading

4. Technical Analysis:
Python studio using pythonlanguage because the functionalities for developing the modules of requirement as it can be done easily using it. The code can be easily understood by other person.
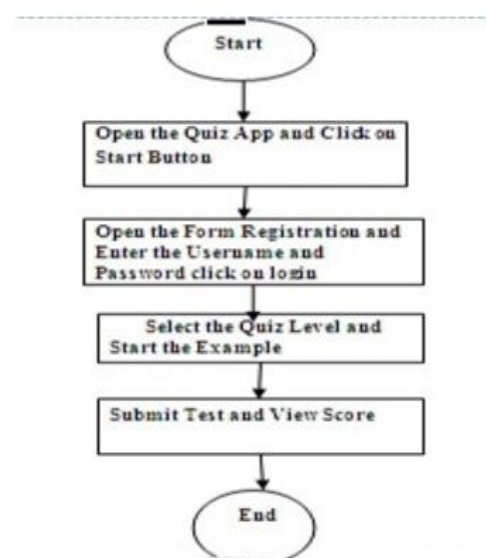
5. Activity Diagram:

Fig 1.Activity Diagram.

III. TESTING OF PROJECT

1. Unit Testing:
Unit testing focuses each module individually, ensuring that if function properly as unit. In this testing we have tested of our software to ensure maximum error detection.

It helps to remove bugs from sub modules & prevent arrival of huge bugs after words which are difficult to find & remove.

- Open the quiz Application
- Login the App
- Enter the User Name And Password
- Open the Quiz Form
- Selected One Option In Quiz
- Submit Quiz Test

2. Integration Testing:
Integration testing is a systematic technique for constructing the program structure while site, we've noticed they sometimes make mistakes that messuptheir lists, like accidentally submitting blank list items, or accidentally inputting two identical items to a list.

3. Validation Testing:
As our first few users start using the evaluation method of student performance and the feedback of the student in the quiz. Here, the questions are appeared according to the previous answer of that student. We have implemented it in our thesis and it works successfully in our system. In this system, an educational institute can make their examination procedure automated.

4. System Testing:
In the system testing system undergoes various exercises to fulfil the system requirements.

These tests include:
4.1 **Security Tests:** these are designed to ensure no user can access the other documents which are none of his student.
4.2 **Performance Tests:** The tests are conducted to check the performance of the system

IV. APPLICATIONS

This project can be used in following areas:
1. Large IT'S Industries:
- This system is an application which can be accessed from all over the world with secured permission given to every user.
- Quiz Performance and Recognition Portal is quiz app used by the entire student in different sections of the company and to monitor the quiz game performance and to give offline task.

2. Private Company:
Performance and Recognition Portal is Performance Appraisal and Recognition system used by the entire quiz in different sections of the company and to monitor the quiz performance and to give online task.

V. CONCLUSION

Quiz app system report in python. Thesis, we have focused on the automated system, which replaces the manual quiz system. But the interesting thing is that the thesis is not just a quiz system; it has its own intelligent capability. This was actually our target feature of our thesis. Quiz Applications Report in Python.We have tried to introduce at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested components and build a program structure that has been dictated by the design.

We prefer the Top-down integration testing as a testing approach for our project. The Top-down integration testing is an incremental approach to construction of program structure. Modules are integrated by moving downward through the control hierarchy, beginning with the main control module.

The main control module is used as a test driver and others are substituted for all components directly subordinate to the main control module. Depth-first integration would integrate all components on a major control path of a structure. Selection of a major path is somewhat arbitrary and depends on application-specific characteristics.

ACKNOWLEDGEMENT

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