

***A Mini Project Synopsis on***  
**Quiz Game(Tech Quiz)**

**S.E. - I.T Engineering**

**Submitted By**

**Yash Patil                      21104102**

**Nihal Singh                    22504001**

**Amitesh Yadav                21104080**

**Under The Guidance Of**  
**Prof. Mandar Ganjapurkar**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**A.P.SHAH INSTITUTE OF TECHNOLOGY**

**G.B. Road, Kasarvadavali, Thane (W), Mumbai-400615**

**UNIVERSITY OF MUMBAI**

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## CERTIFICATE

This to certify that the Mini Project report on Quiz Game has been submitted by Yash Patil(21104102), Nihal Singh(22504001) and Amitesh Yadav(21104080) who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfillment of the requirement for the degree in **Information Technology**, during the academic year **2022-2023** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

Mr. Mandar Ganjapurkar  
Guide

Prof. Kiran Deshpande  
Head Department of Information Technology

Dr. Uttam D.Kolekar  
Principal

External Examiner(s)

- 1.
- 2.

Place:A.P.Shah Institute of Technology, Thane

Date:

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## **1. Introduction**

Tech Quiz is a quiz game developed using the Python programming language. The game allows users to choose a topic from a range of quizzes, and each quiz is time-limited. The quizzes consist of multiple-choice questions, and the user's results are displayed along with the correct answers. In order to attempt a quiz, users must first register and log in. Additionally, there is an admin interface that allows an admin user to add or delete quizzes and questions, view user scores, and delete user scores.

### **1.1. Purpose :**

The purpose of Tech Quiz is to provide an interactive and educational platform for users to test their knowledge in various technology-related fields.

### **1.2. Objectives :**

- ❖ To provide users with an engaging and interactive quiz experience
- ❖ To improve users' knowledge in various technology-related fields
- ❖ To allow users to track their progress and see their scores over time
- ❖ To provide an admin interface for managing quizzes, questions, and user scores.

### **1.3. Scope :**

- ❖ Tech Quiz is designed to be used by anyone who wants to test their knowledge in various technology-related fields.
- ❖ The game can be played on any device without an internet connection.

## **2. Problem**

### **2.1. Problem Defination :**

The problem that Tech Quiz aims to address is the lack of engaging and interactive platforms for users to test their knowledge in various technology-related fields. Many existing quiz games are either too simplistic or too complex, and they do not offer users a range of topics to choose from. Additionally, many quiz games do not allow users to track their progress over time or provide an admin interface for managing quizzes and user scores.

### **2.2. Problem Solution :**

Make Quiz Game entirely made for Technical Quizzes so that the users interested in Technical knowledge can learn.

### **3. Proposed System**

Tech Quiz which is a web-based quiz game provide different quizzes on different topics.

The admin can add/delete questions or quizzes to keep users up-to-date with new technology.

#### **3.1. Features and Functionality**

User registration and log-in

Quiz selection screen with a range of topics to choose from

Timer for each quiz

Multiple-choice questions with four options to choose from

Results screen showing the user's score and the correct answers to each question

Admin interface for managing quizzes and user scores, including the ability to add or delete quizzes and questions, view user scores, and delete user scores.

#### **4. Project Outcomes**

A fully functional quiz game that provides users with an engaging and interactive experience

An admin interface that allows for easy management of quizzes and user scores

A platform for users to test their knowledge in various technology-related fields and improve their understanding of these topics.



## **5. Software Requirement**

- Python3
- Django
- SQLite
- Html
- Csss
- Javascript

### **5.1 Hardware Requirements**

- Processor - Intel 8 cores
- Ram - 4 Gb
- Processor Speed - 2 Ghz
- Android phone (Having Version Above or 2.3)

## 6. Project Design

### 6.1. Home Page

**Tech Quiz** [Sign Up](#) [Login](#)

#### Python Quiz

You can test your Python programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

[Attempt Quiz](#)

#### Java Quiz

You can test your Java programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

[Attempt Quiz](#)

#### Data Structure

You can test your Data Structure skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

[Attempt Quiz](#)

#### C/C++ Quiz

You can test your C/C++ programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

### 6.2. Login Page

**Tech Quiz** [Sign Up](#) [Login](#)

LOGIN DETAILS

***Username***

***Password***

Submit

### 6.3. Signup page

**SIGN UP DETAILS**

**First Name**

**Last Name**

**Username**

**Email**

**Password**

**Confirm Password**

**Submit**

### 6.4. After login User page

**Tech Quiz** [Welcome amit](#) [Logout](#)

**Python Quiz**  
You can test your Python programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.  
**Attempt Quiz**

**Java Quiz**  
You can test your Java programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.  
**Attempt Quiz**

**Data Structure**  
You can test your Data Structure skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.  
**Attempt Quiz**

**C/C++ Quiz**  
You can test your C/C++ programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

## 6.5. After login admin page

The screenshot shows the admin interface of the Tech Quiz application. At the top, a dark header contains the logo "Tech Quiz" in orange and white, followed by the text "Welcome nihal", a "Logout" link, and an "Admin" dropdown menu. The dropdown menu is open, showing three options: "Add Quiz", "Add Questions", and "Results of the Users". Below the header, the main content area has a dark background and displays four quiz cards. Each card has a title, a description, and an "Attempt Quiz" button. The cards are for "Python Quiz", "Java Quiz", "Data Structure", and "C/C++ Quiz". The description for each card is: "You can test your [language/structure] programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz."

**Tech Quiz** Welcome nihal Logout Admin ▾

- Add Quiz
- Add Questions
- Results of the Users

### Python Quiz

You can test your Python programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

Attempt Quiz

### Java Quiz

You can test your Java programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

Attempt Quiz

### Data Structure

You can test your Data Structure skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

Attempt Quiz

### C/C++ Quiz

You can test your C/C++ programming skills by giving a short quiz. You can also view the correct answers and understand what was the mistake you did. So don't waste your time and give the quiz.

## 6.6. Start Quiz Interface

The screenshot shows the start interface for the Python Quiz. At the top, a dark header contains the "Tech Quiz" logo. Below the header, there is a button that says "Click Here to Start Attempting the Quiz". The main content area has a light gray background and features the text "Python Quiz" in a large, bold, red font. In the top right corner, there is a black box with the text "Seconds Left : 60" in white.


**Tech Quiz**

Click Here to Start Attempting the Quiz

# Python Quiz

Seconds Left : 60

## 6.7. Quiz Questions Interface

 **Tech Quiz**

### Python Quiz

Seconds Left : 56

Which is not an advance data type in Python?

☐ List

☐ Tuple

☐ Range

☐ Dictionary

What command is used to insert 6 in a list "L" at 3rd position ?

☐ Linsert(2,6)

☐ Linsert(3,6)

☐ Ladd(3,6)

☐ Lappend(2,6)

Which of the following is used to define a block of code in Python language?

☐ Indentation

☐ Key

☐ Brackets

☐ All of the mentioned

Which of the following statements are used in Exception Handling in Python?

☐ try

## 6.8. Database

db.sqlite3

Search tables... Reset Filters Records: 27 Search 27 records...

Tables (15)

> django\_migrations

> sqlite\_sequence

> auth\_group\_permission

> auth\_user\_groups

> auth\_user\_user\_permiss

> django\_admin\_log

> django\_content\_type

> auth\_permission

> auth\_group

> auth\_user

> django\_session

> home\_quiz

> home\_marks\_of\_user

> home\_question

> home\_answer

	id	app	name	applied	
	Search column...	Search column...	Search column...	Search column...	
	1	contenttypes	0001_initial	2021-06-15 09:56:39....	
	2	auth	0001_initial	2021-06-15 09:56:39....	
	3	admin	0001_initial	2021-06-15 09:56:39....	
	4	admin	0002_logentry_remov...	2021-06-15 09:56:39....	
	5	admin	0003_logentry_add_a...	2021-06-15 09:56:39....	
	6	contenttypes	0002_remove_conten...	2021-06-15 09:56:39....	
	7	auth	0002_alter_permissio...	2021-06-15 09:56:39....	
	8	auth	0003_alter_user_email...	2021-06-15 09:56:39....	
	9	auth	0004_alter_user_user...	2021-06-15 09:56:39....	
	10	auth	0005_alter_user_last_l...	2021-06-15 09:56:40....	
	11	auth	0006_require_conten...	2021-06-15 09:56:40....	
	12	auth	0007_alter_validators...	2021-06-15 09:56:40....	
	13	auth	0008_alter_user_user...	2021-06-15 09:56:40....	
	14	auth	0009_alter_user_last_...	2021-06-15 09:56:40....	
	15	auth	0010_alter_group_na...	2021-06-15 09:56:40....	
	16	auth	0011_update_proxy_...	2021-06-15 09:56:40....	
	17	auth	0012_alter_group_na...	2021-06-15 09:56:40....	

< 1 >

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Try SQLite Viewer Web

Go Live

## 7. Project Scheduling

Sr. No	Group Member	Time duration	Work to be done
1.	Yash Patil Amitesh S Yadav Nihal Singh	In the month of January.	Creating GUI using html css and javascript
2.		In the month of February.	Adding more features like Quiz's and Timer.
3.		In the month of March and April.	Adding data sets and final completion of project.

## **8. Conclusion**

Tech Quiz is a Python-based quiz game that offers users the opportunity to test their knowledge on various technology topics. Its user-friendly interface and engaging gameplay make it a valuable tool for education and entertainment. Future development could include additional quiz topics and more complex question types. To conclude, this is a simple Online MCQ Quiz which able a teacher to punch MCQ question to system which will be store in SQLite Server database and able the student to attempt any test for once. The marks of student will be calculated according to questions they attempt and will be displayed by the system to teachers and student.

## 9. References

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