

Quiz Book



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Introduction:

Quiz Book application is an application where we can interact with question and select answers to test our skill and learn new skills as well.

In this Project, we have created a new quiz book application using Python and MySQL to do the same but in a computer terminal..

We used MySQL database to create tables, and store all the related data of this quiz book application.

And we used Python for all the calculation, interacting with database, and interacting with the application.



**At the end of
the day, the
goals are
simple:
Safety and
Security.**

-Jodi Rell

Security

When coming to securing the application, the best way to do this is making passwords. To make it more secure, separating the users and admin and other type of users. We have created multiple tables to separate admins and users to make sure there won't be any password leak, or insecurity.

Data base:

We have created and used our own database called “quiz_book” to implement all the tables and data in it.

Tables for the application:

We have created multiple tables to store data as per the application need. Let's see the tables and their characters.

Tables:

- admin_tab
- user_tab
- quiz

admin_tab:

	admin_id	user_id	user_name	password
▶	102	10127	ranjith2	12345
*	NULL	NULL	NULL	NULL

admin_id	int
<u>user_id</u>	int AI PK
user_name	varchar(45)
password	varchar(45)

Admin_tab is the table which has all the information of administrator. As we set the user_id as primary key, there will be a new user created in user_tab whenever there is a new admin created. Admin can also be part of taking quiz and using the application while logging in as user. Admin_tab and user_tab shares the same password for admin.

user_tab:

	user_id	user_name	password	name	mobile	mail	user_level	points
▶	10127	ranjith	12345	Ranjith	9940036536	ranjith.ofcl@gmail.com	1	1
	10128	vinitha123	vin1	Vinitha	9966332266	vinitha@gmail.com	2	22
	10129	rithu2	r123	Rithvik	9988744556	rithu@gmail.com	1	0
	10132	pencil	pencil	Pencil	8866554422	pencil@gmail.com	1	0
	10133	blue_pen	pen	Pen	7744556688	bluepen@gmail.com	1	0
	10134	pranav46	p123	Pranav	9512364870	pranav@gmail.com	1	0
	10136	kaushikezio	kau123	Kaushik	9658741230	kaushik@gmail.com	1	0
	10137	dhanushrock	d123	Dhanush	9658743210	dhanush@gmail.com	1	0
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Columns:







<u>user_id</u>	int AI PK
user_name	varchar(45)
password	varchar(45)
name	varchar(45)
mobile	varchar(45)
mail	varchar(45)
user_level	int
points	int

User_tab is the table is hold all the user information. As user-id primary key, we can also interact with other tables.

Here we can see user_level and points columns as int. There are the columns which makes this application more interesting.

Users can take more quizzes as possible to increase their level. Their points will be used to evaluate their level. More level comes with more difficult quizzes.

Quiz:

Result Grid							
Filter Rows:							
Edit:    Export/Import:   Wrap Cell Content: 							
q_id	q_ques	q_lvl	q_opt1	q_opt2	q_opt3	q_opt4	q_ans
q061201	The term 'Computer' is derived from.....?	1	Latin	English	Greek	French	Latin
q061202	In which decade was the Internet first implemented?	1	1940s	1950s	1960s	1970s	1960s
q061203	Where are the contents of your computer's hard drive indexed?	1	Yahoo!	Google	MSN	None of the above	None of the above
q061204	Main circuit board in a computer is:	1	Decoder	Highlight	Select	Mother board	Mother board
q061205	Which among the following is not an operating system?	1	UNIX	LINUX	OS X	PITEX	PITEX
q061206	From what location are the 1st computer instructions available on boot up?	1	ROM BIOS	CPU	OS BOOT	None of the Above	ROM BIOS
q061207	What could cause a fixed disk error.	1	No-CD installed	Bad RAM	Slow Processor	Incorrect CMOS settings	Incorrect CMOS settings
q061208	Which Motherboard Form Factor uses one 20 pin connector?	1	ATK	ATX	AT	Baby AT	ATX
q061209	A hard disk is divided into tracks which are further subdivided into:	1	Clusters	Sectors	Vectors	Heads	Sectors
q061210	From below, which is not Computer Hardware,	1	Processor	RAM	M-Board	Monitor	Monitor
q061211	Does CPU FAN required for a computer?	1	Yes	No	Maybe		Yes
q061212	ESD would cause the most damage to which component?	1	Power Supply	Expansi...	Monitor	Keyboard	Expansion board
q061213	A report generator is used to	2	Update files	Print Fil...	Data entry	None of the above	Print Files on Paper
q061214	Which of the following is a database administrator's function?	2	Database design	Backing ...	Performance ...	All of the above	All of the above
q061215	Primitive operations common to all record management systems include	2	Look-up	print	sort	Transfer	Look-up
q061216	Each of data files has a _____ that describe the way the data is stored i...	2	File structure	Records	Fields	Database	File structure
q061217	After you _____ a record, many data management the environments re...	2	Delete	Update	Sort key	Index	Update
q061218	What is the language used by most of the DBMSs for helping their users ...	2	High level Lan...	Query l...	SQL	4GL	Query language
q061219	Data item characteristics that are important in data management include	2	Punctuation	Landuage	Spelling	idthW	idthW
q061220	In SQL, which command is used to make permanent changes made by st...	2	ZIP	PACK	COMMIT	SAVE	COMMIT
q061221	Periodically adding, changing and deleting file records is called file	2	upgrading	restructuring	renewing	updating	updating
q061222	The data dictionary tells the DBMS	2	what files are i	what st	what these fi	All of the above	All of the above

Columns:

q_id varchar(20) PK
q_ques varchar(2000)
q_lvl int
q_opt1 varchar(1000)
q_opt2 varchar(1000)
q_opt3 varchar(1000)
q_opt4 varchar(1000)
q_ans varchar(1000)

Quiz table is the table which holds all the quiz questions, answers, quiz level. Here we can see q_lvl column. This is the difficulty level of quiz. We will see more about this lvl column and use of it in the Quiz features.

Python Codes, Packages and Modules:

Python Code:

Python is a programming language that enables users to easily write and read code. It is easy to learn for beginners and has many features that make it useful for experienced programmers.

Python Package:

A Python module is a file that has a .py extension, and it is a program that is written in the Python programming language. The module can be run by calling the Python interpreter with the -m option, and it will be executed as if it were a script.

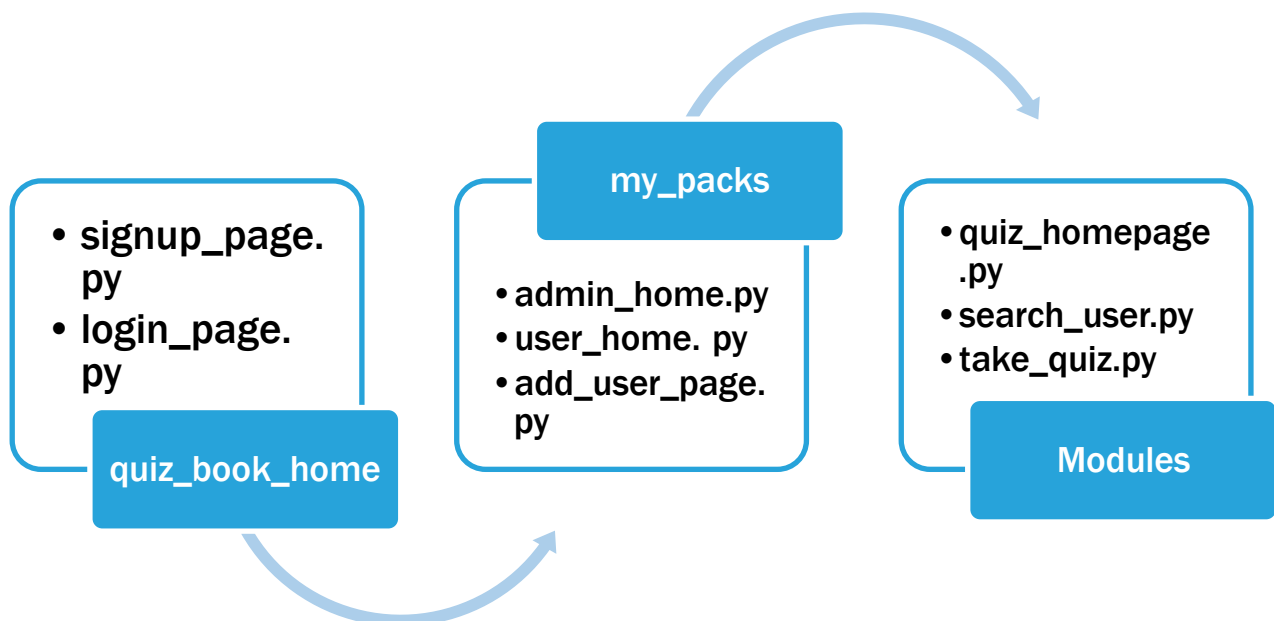
Python Module:

A Python package is a collection of modules that are bundled together and distributed as a single unit. Packages can contain code, data, and documentation.

In our application:

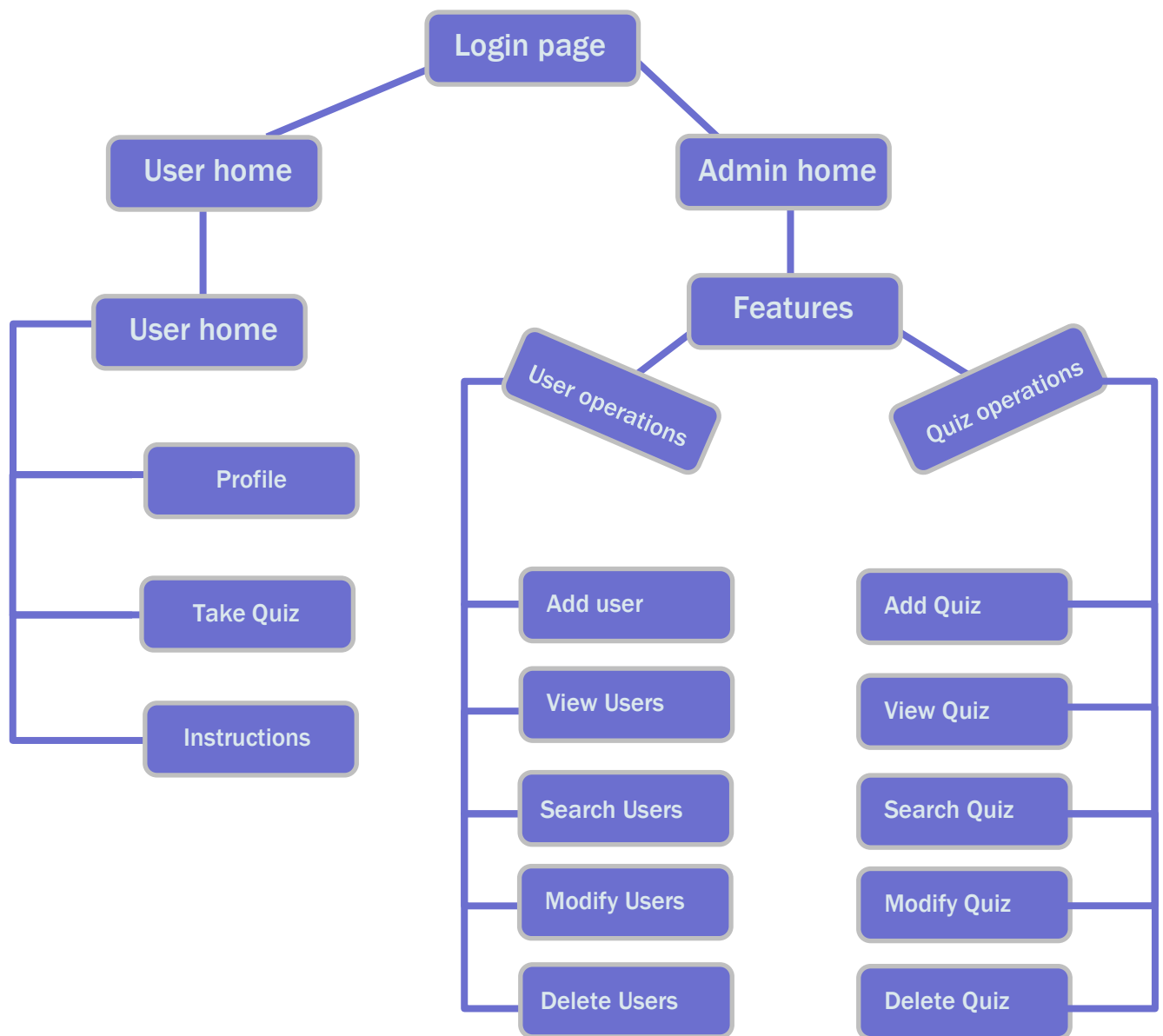
In this application, we have used modules, packages to make the application more intractable, easy to debug, easy to test. Every feature of this application comes in a new package/module as what is best location for them.

Here is the diagram to explain, how this codes, modules, packages are stored and used.



By making the login and signup page as main code, we are improving the security as user can only be as user, and admin can be user and admin as well. Also this helps us to dive into the application directly without any unnecessary steps.

Quiz Book Application Structure:



Login Page: (login_page.py)

Login page is the beginning of this application. Here we will have four options as follows,

- * Login as Admin
- * Login as User
- * Signup
- * Exit

1. Login as Admin option will be used for admin login. Here admin_tab table is used to retrieve admin ID, and password. There are restrictions as password incorrect, no admin found (If the admin ID is incorrect). Let's see the code and query we used to make this page,

```
"select password from admin tab where admin id = %s"
```

If the query retrieves no admin, we can be sure there is no admin available with the entered admin id. It prompts "No Admin Found" error.

Once the admin and password is retrieved, if the password mismatch with the entered password and retrieved password, then it prompts "Password incorrect" error.

If both admin id and password is correct, verification will be successful and the page directs to "admin_home.py" module where admin can access all admin features.

2. Login as User option will be used for user login page. Here user_tab table is used to retrieve user ID, and password. There are restrictions as password incorrect, no user found (If the user ID is incorrect). Let's see the code and query we used to make this page,

```
"select password from user tab where user id = %s"
```

If the query retrieves no user, we can be sure there is no user available with the entered user id. It prompts "No user Found" error.

Once the user id and password is retrieved, if the password mismatch with the entered password and retrieved password, then it prompts "Password incorrect" error.

If both user id and password is correct, verification will be successful and the page directs to "user_home.py" module where user can access all his features.

3. Signup page redirects the user to add_new_user.py module where new user can be created by entering username, password, name, mobile number, and email address.

4. Exit option simply will close the application

Sign up Page: (signup_page.py)

Signup page is where new users can create their own new profile to begin with the quiz application journey. Here user will be prompted to enter their new username, name, password, mobile number and the email address.

Here is the password mismatch with the password and re-type password, error will be prompted as “Password Mismatch”.

User_id for the new user will be allocated automatically by getting the last user's ID and incrementing it.

```
("select max(user_id) from user_tab")
value = point.fetchall()
for i in value:
    max_id = i[0]
```

User level and points will be allocated to the new user as user level = 1 and points = 0.

And finally new user will be created by the below query and the new user id will be shared with user,

```
"insert into user_tab
(`user_id`,`user_name`,`password`,`name`,`mobile`,`mail`,`user_level`)
Values(%s,%s,%s,%s,%s,%s,%s);"

```

```
Fillup below information to Create new Account.
User name: dhanam9090
Name: Dhanam
Password: d123
Re-type Password: d123
Mobile: 9856471230
Mail address: dhanam@gmail.com

Confirm to Create new account with above information?
1. Confirm      2. Reset      3. Login
=> 1
User ID created successfully. Please make a note of your User ID
Here is your User ID : 10138
Press any button to go to Login page.
...
```

Admin Homepage: (admin_home.py)

Here admin will have his/her features as User Operations and Quiz Operations.

User Operations:

User operations is where admin can view all users, search user, modify user details, delete user and create new user just like signup.

```
print("|||| User Operations |||")
print("1. View all Users      2. Search User      3. Add User")
print("4. Modify User        5. Delete User      6. Back")
```

View Users:

Here admin can view all the users in quiz application using the below query,

```
query = "select * from user_tab;"
```

Search User:

This option will redirect admin to search_user module where he will be presented with multiple search options.

```
print("1. Search by User ID      2. Search by Username")
print("3. Search by Name         4. Search by Level")
print("5. Back                    ")
```

Every option will use unique query to search user as below,
Search by ID:

```
"select * from user_tab where user_id like '%s%'"
```

Search by username:

```
query = "select * from user_tab where user name like %s"
```

Search by Name:

```
query = "select * from user_tab where name like %s"
```

Search by Level:

```
query = "select * from user_tab where user_level = %s"
```

Add user:

This page works just like Signup page. Once the admin entered all the information, and password is matched, he/she will be prompted as below, and continue the program as below,

```
print("\nConfirm to Create new account with above information?")
print("      1. Confirm      2. Reset      3. Back")
ch = int(input("> "))
if ch == 1:
    if password == re_type:
        point.execute("select max(user_id) from user_tab")
        value = point.fetchall()
        for i in value:
            max_id = i[0] + 1
        user_id = max_id
        query = "insert into user_tab ('user_id' 'user_name' 'password' 'name' 'mobile' 'mail' 'user_level' 'points') Values(%s,%s,%s,%s,%s,%s,%s,%s);"
        in_values = (user_id, user_name, password, name, mobile, mail, user_level, points)
        point.execute(query, in_values)
        point.commit()
        mydb.commit()
        print("User ID created successfully. Please share User ID with the user.")
        print("New User ID:", user_id)
        sleep(3)
        print("Press any button to go to back.")
        dummy = input("...")
        features()
```

Search User:

This option will redirect admin to search_user module where he will be presented with multiple search options.

```
print("1. Search by User ID      2. Search by Username")
print("3. Search by Name        4. Search by Level")
print("5. Back                    ")
```

Every option will use unique query to search user as below,
Search by ID:

```
"select * from user_tab where user_id like '%s%'"
```

Search by username:

```
query = "select * from user_tab where user_name like %s"
```

Search by Name:

```
query = "select * from user_tab where name like %s"
```

Search by Level:

```
query = "select * from user_tab where user_level = %s"
```

Modify User:

Here admin can modify any user's name, password, mobile number email address or all the information. NOTE: Points and Level cannot be modified.

```
What data you want to Modify?
1. Username          2. Password          3. Name
4. Mobile            5. E-Mail address    6. Complete User Modification
7. Back
=>
```

Modify Username: This will modify the username of a user by user_id as per below query,

```
"update user_tab set user name = %s where user id = '%s'"
```

Modify Password: This will modify the password of a user by user_id as per below query,

```
"update user_tab set password = %s where user id = '%s'"
```

Modify Name: This will modify the name of a user by user_id as per below query,

```
"update user_tab set name = %s where user id = '%s'"
```

Modify Mobile: This will modify the mobile number of a user by user_id as per below query,

```
"update user_tab set mobile = %s where user id = '%s'"
```

Modify Email address: This will modify the mobile number of a user by user_id as per below query,

```
"update user_tab set mail = %s where user id = '%s'"
```

Complete User Modification: This will modify all the information of user except level and points as per below query,

```
query = "update user_tab set user_name = %s, password = %s, name = %s, mobile = %s, mail = %s where user id = '%s'"
```

Delete User:

This option used to delete any user from the quiz application.

```
"delete from user_tab where user_id = %s"
```

To avoid deleting users by mistake, Admin will be prompted for a confirmation to delete the user as below,

```
User ID: 10128
Are you confirm to delete user?
1. Confirm      2. Cancel
=> 2
Operation cancelled...
```

In admin feature of user operations all the statements, codes, queries will be under try/except block to make sure there is no error, or crash in the application while operating with the application.

Quiz Operations:

```
|||| Quiz Operations ||||
```

```
1. View all Quiz      2. View quiz by Difficulty    3. Search Quiz
4. Add Quiz           5. Modify Quiz      6. Delete Quiz
7. Back
=>
```

Here admin will be presented with options as above to interact with Quizzes.

1. View All Quiz:

This option will be used to retrieve all the quizzes from quiz application database using the below query,

```
"select * from quiz"
```

2. View Quiz by Difficulty:

Admin can retrieve quizzes by it's difficulty just by entering the quiz level in this option.

```
Enter Difficuty: 1
12 Records Found
-----
Question: The term 'Computer' is derived from.....?
Options:  Latin | English | Greek | French
Answer:  Latin
Quiz ID:  q061201
Quiz Level:  1
Points from Quiz:  1
-----
Question:  In which decade was the Internet first implemented?
Options:   1940s | 1950s | 1960s | 1970s
Answer:   1960s
```

Query:

```
"select * from quiz where q_lvl = %s;"
```

3. Search Quiz:

Here admin can search quiz by it's quiz id.

Query:

```
"select * from quiz where q_id = %s;"
```



```

Quiz ID: q061202
1 Records Found
-----
Question:  In which decade was the Internet first implemented?
Options:   1940s | 1950s | 1960s | 1970s
Answer:   1960s
Quiz ID:  q061202
Quiz Level:  1
Points from Quiz:  1

```

4. Add Quiz:

Here admin can add new quiz by entering question, difficulty level, options (1,2,3,4), and answer.

Quiz id will be allocated automatically by getting the last available quiz from database and incrementing it.

```

point.execute("select max(q_id) from quiz;")
record = point.fetchall()
for x in record:
    q_id = x[0]
dum = int(q_id[-6:]) + 1
new_qid = 'q0' + str(dum)
print("\n")
print("Quiz ID = ", new_qid)
q_name = input("Quiz: ")
q_lvl = int(input("Quiz Level: "))
opt_1 = input("Option 1: ")
opt_2 = input("Option 2: ")
opt_3 = input("Option 3: ")
opt_4 = input("Option 4: ")
quiz_ans = input(" Answer: ")
try:
    print("Do you confirm to add above Quiz?")
    print("1. Confirm 2. Reset 3. Cancel")
    choice = int(input("=> "))
    if choice == 1:
        query = "insert into quiz (`q_id`,`q_ques`,`q_lvl`,`q_opt1`,`q_opt2`,`q_opt3`,`q_opt4`,`q_ans`) VALUES (%s,%s,%s,%s,%s,%s,%s,%s);"
        values = (new_qid, q_name, q_lvl, opt_1, opt_2, opt_3, opt_4, quiz_ans)
        point.execute(query, values)
        mydb.commit()
        sleep(1)
        print("Quiz added Successfully. ")

```

```
1. View all Quiz      2. View quiz by Difficulty    3. Search Quiz
4. Add Quiz           5. Modify Quiz      6. Delete Quiz
7. Back
=> 4
|||| Add Quiz ||||

Quiz ID = q061224
Quiz: Which of the following operating systems is produced by IBM?
Quiz Level: 3
Option 1: OS-2
Option 2: Windows
Option 3: DOS
Option 4: UNIX
Answer: OS-2
Do you confirm to add above Quiz?
1. Confirm 2. Reset 3. Cancel
=> 1
Quiz added Successfully.
1. Add again 2. Back 3. Home
=>
```

5. Modify Quiz:

Here admin will be presented to modify quiz question options, answer and the difficulty level as below,

```
1. View all Quiz      2. View quiz by Difficulty      3. Search Quiz
4. Add Quiz           5. Modify Quiz           6. Delete Quiz
7. Back
=> 5

Enter Quiz ID: q061224
1. Modify Options      2. Modify Answer      3. Modify Level
4. Back
=>
```

And the below queries used to modify quiz as per the selected option

1. Modify options:

```
"update quiz set q_opt1 = %s, q_opt2 = %s, q_opt3 = %s, q_opt4 = %s, q_ans = %s where q_id = %s"
```

2. Modify Answer:

```
"update quiz set q_ans = %s where q_id = %s"
```

3. Modify Difficulty Level:

```
"update quiz set q_lvl = %s where q_id = %s"
```

6. Delete User:

This option used to delete any question from the quiz application.

```
"delete from quiz where q_id = %s"
```

To avoid deleting users by mistake, Admin will be prompted for a confirmation to delete the user as below,

```
Quiz ID: q061224
1
Are you confirm to delete user?
1. Confirm      2. Cancel
=> 2
Operation cancelled...
```

In feature of user operations all the statements, codes, queries will be under try/except block to make sure there is no error, or crash in the application while operating with the application.

User Homepage: (user_home.py)

Once the user successfully verified their profile, and logged in, they will be redirected this user homepage to interact with the quiz application./ This page has features as Profile, Take quiz, logout and Instructions.

```
-----  
| Welcome to Quiz Book |  
-----  
1. Login as Admin      2. Login as User  
3. Sign Up            4. Exit  
=> 2  
User Login  
User ID: 10128  
Password: vin1  
Verification Successful. Logging you in...  
  
-----  
| Welcome Vinitha |  
-----  
  
Select Operation you want to Perform,  
1. Profile            2. Take Quiz  
3. Logout             4. Instructions  
=>
```

1. Profile:

In profile page, user can see their profile information such as username, user id, name, mobile number, email address and password.

For any changes in user information, user much reach administrator.

```
|||| Your Profile ||||  
-----  
User ID: 10128  
Username: vinitha123  
Name: Vinitha  
Mobile number: 9966332266  
Email address: vinitha@gmail.com  
Level: 2  
Current points: 22  
password: vin1  
-----
```

2. Take Quiz:

This option will redirect user to quiz home page where user can participate in quiz to test their knowledge and improve their skill.

There are two options to take quiz.

- * Start Quiz for your Level. (Recommended)
- * Start Quiz by Difficulty.

Start quiz for your level will retrieve the user's level from database and match the level of question to make the quiz equal to their level.

For example, if the user is in level 1, and select this option, the below query used to retrieve questions from quiz table only those are in user's level.

```
"select q_id from quiz where q_lvl = %s"  
"select q_ques from quiz where q_id = %s"
```

Every quiz will get questions from table by random. So that user will not get question which was already answered.

Once the questions and options are retrieved from database, quiz will begin.

Once user answered all the questions, quiz will calculate the selected answers and match with the quiz answer column of quiz table to check the selected answers are correct or not using if statement.

```
"select q_ans from quiz where q_id = %s"
```

Each question will have 10 marks, and user must answer 7 or above questions to get pass marks as 70marks will be the qualification for passing the quiz.

If the user passed the quiz, they will get points as the quiz they took. For example if the user takes level 1 quiz, they will get 1 point for passing that quiz.

- * Level 1 Quiz -> 1 Point
- * Level 2 Quiz -> 2 Point
- * Level 3 Quiz -> 3 Point
- * Level 4 Quiz -> 4 Point
- * Level 5 Quiz -> 5 Point

And points will be updated to the points column of user table once they have passed the quiz.


```
"update user tab set points = %s where user id = %s "
```

There is another rule. User's level will be improved when they cross 20 points.

- * Points 0-20 -> Level 1
- * Points 21-40 -> Level 2
- * Points 41-60 -> Level 3
- * Points 61-80 -> Level 4
- * Points 81-100 -> Level 5

At the end of the quiz, if the user's points crosses the level points, user's level will be updated using as below,

```
if (rec >= 0) and (rec <= 20):
    q1 = "update user_tab set user_level = 1 where user_id = %s"
    point.execute(q1, user_id)
    mydb.commit()
elif (rec >= 21) and (rec <= 40):
    q1 = "update user_tab set user_level = 2 where user_id = %s"
    point.execute(q1, user_id)
    mydb.commit()
elif (rec >= 41) and (rec <= 60):
    q1 = "update user_tab set user_level = 3 where user_id = %s"
    point.execute(q1, user_id)
    mydb.commit()
elif (rec >= 61) and (rec <= 80):
    q1 = "update user_tab set user_level = 4 where user_id = %s"
    point.execute(q1, user_id)
    mydb.commit()
elif (rec >= 81) and (rec <= 100):
    q1 = "update user_tab set user_level = 5 where user_id = %s"
    point.execute(q1, user_id)
    mydb.commit()
elif (rec > 100):
    q1 = "update user_tab set user_level = 6 where user_id = %s"
    point.execute(q1, user_id)
    mydb.commit()
```



Start Quiz by Difficulty will give 5 level of difficulties to start with the quiz.

- * Level 1 -> Beginner
- * Level 2 -> Amateur
- * Level 3 -> Comfortable
- * Level 4 -> Professional
- * Level 5 -> Master

Once the level is started, quiz will begin just as the previous start quiz feature and all the points validation and level validation will apply here as well.

3. Logout:

Logout option will close the application

4. Instructions:

Here user will have two options to pick,

- * User instruction
- * Quiz Instruction

User Instruction:

1. User can visit their Profile to check their points, level and personal information.
2. Any changes if required in personal information, user should reach Administrator.
3. To update password, user should reach Administrator.
4. User will get 0 points at the beginning of the journey.
5. User will be at Level 1 at the beginning of the journey
6. Points can be obtained as below,
 - * Level 1 Quiz -> 1 Point
 - * Level 2 Quiz -> 2 Point
 - * Level 3 Quiz -> 3 Point
 - * Level 4 Quiz -> 4 Point
 - * Level 5 Quiz -> 5 Point
7. Level can be obtained as below,
 - * Points 0-20 -> Level 1
 - * Points 21-40 -> Level 2
 - * Points 41-60 -> Level 3
 - * Points 61-80 -> Level 4
 - * Points 81-100 -> Level 5
 - * Points 100 or above -> Mastered

Quiz Instructions:

1. There are five level of Quiz.
 - * Level 1
 - * Level 2
 - * Level 3
 - * Level 4
 - * Level 5
2. Each level of Quiz will be harder as it increasing.
3. Quiz levels will be categorized as below in Quiz page.
 - * Level 1 -> Beginner
 - * Level 2 -> Amateur
 - * Level 3 -> Comfortable
 - * Level 4 -> Professional
 - * Level 5 -> Master
4. Points can be obtained as below,
 - * Level 1 Quiz -> 1 Point
 - * Level 2 Quiz -> 2 Point
 - * Level 3 Quiz -> 3 Point
 - * Level 4 Quiz -> 4 Point
 - * Level 5 Quiz -> 5 Point
5. Every Quiz will have 10 Questions.
6. Each Questions will take 10 marks, as the one total Quiz will have 100 marks.
7. Getting 70 or above mark is a Successful Quiz.
8. Successfully Quiz will give you points to your profile, based on the Quiz Level.

Conclusion:

Programming is the process of taking an algorithm and encoding it into a notation and implementing our plan to make it possible for a computer can understand and the user can have good experience and make use of it.

This quiz book application created for education purpose where user can have simple quiz questions and answer them to improve their skill and knowledge. To add some fun for this process, we have added points, level and ways to improve them, so that user will get interested in achieving more level and earning more points which will naturally improve their skill.



We have seen what is Python, what is MySQL and We have seen everything about this quiz application, and how it works.
As a creator of this application, I have experience so much joy while making this application. Thanks for taking time to check out my application and it's about file.
Have a great coding!!!