Prerequisite:

Python 3.x.

Installation:

- Clone the repository.
- Make sure Python is installed.
- No external dependencies are required.

Usage:

Launch the app with:

python Questions.py

Example of execution:

First-Time Use:

When you first run the application, you'll see:

```
=====================================================
        Welcome to the Computer Science QCM
=====================================================


Please enter your name: aymen

Welcome back aymen!

1. View History
2. Start the QCM
3. Exit


=====================================================
```

Taking a Quiz :

1. Select option 2 to start a quiz:

```
1. View History
2. Start the QCM
3. Exit


=================================================

Enter your choice (1-3): 2

Available categories:
=====================================================================
1. Computer Basics
2. Programming Fundamentals
3. Networking
4. Cybersecurity
5. Database Management
6. Web Development
7. Operating Systems
=====================================================================
```

2. Choose a category:

```
    Select a category (number): 1

    You have selected: Computer Basics


    =====================================================================
```

3. Answer questions:

```
    1- What does CPU stand for?

    A. Central Processing Unit        B. Computer Processing Unit
    C. Control Programming Unit       D. Central Programming Unit


    =====================================================================

    Enter your answer (A/B/C/D): a

    √ CORRECT!
```

```
2- Which type of memory is volatile?

A. ROM                              B. RAM
C. SSD                              D. Hard Drive


=========================================================================

Enter your answer (A/B/C/D): a

X INCORRECT!
The correct answer is: B
```

4. View your results:

```
=========================================================================

Category: Computer Basics
Final score: 2/10
Session recorded on: 2025-01-17 22:07:35


=========================================================================
```

Viewing History:

Select option 1 from the main menu:

```
1. View History
2. Start the QCM
3. Exit


=================================================

Enter your choice (1-3): 1

Your Game History:
=============================================================================
Date: 2025-01-17 21:54:54
Category: Computer Basics
Score: 2/10
--------------------------------------
Date: 2025-01-17 22:07:35
Category: Computer Basics
Score: 2/10
--------------------------------------
```
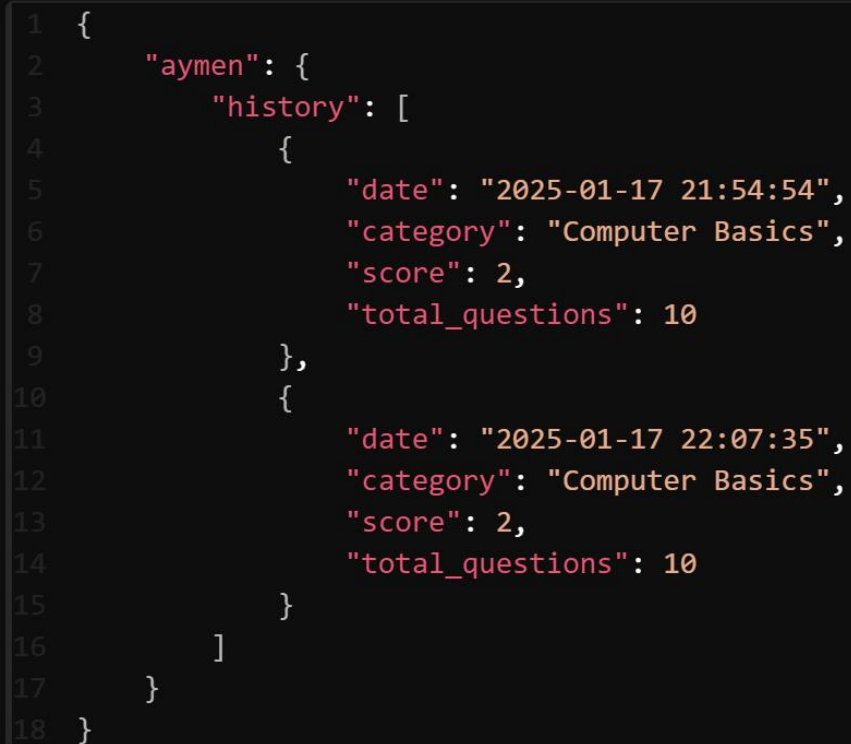
Data Storage :

- User data and quiz history are stored in user_data.json.

- The file is created automatically on first use.

- Data format:

```json
{
    "aymen": {
        "history": [
            {
                "date": "2025-01-17 21:54:54",
                "category": "Computer Basics",
                "score": 2,
                "total_questions": 10
            },
            {
                "date": "2025-01-17 22:07:35",
                "category": "Computer Basics",
                "score": 2,
                "total_questions": 10
            }
        ]
    }
}
```