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| --- | --- | --- | --- | --- | --- |
| Variable Name | Data Type | Format for Display | Description | Example | Validation |
| questions | List | List of dictionaries | Stores all questions, each with topic, options, answer, and hint | [{"Topic": "Muay Thai", "Question": "Who is the GOAT?", "Options": ["A", "B", "C"], "Answer": "A", "Hint": "Fighter known for knees"}] | Must have valid questions |
| filtered\_questions | List | List of dictionaries | Stores filtered questions based on user-selected topic | [{"Topic": "UFC", "Question": "Who won UFC 100?", "Options": ["X", "Y"], "Answer": "X"}] | Must be a set of questions |
| score | Integer | Numeric | Number of correct answers | 3 | 0 or greater |
| qascore | Integer | Numeric | Number of total questions answered | 5 | 0 or greater |
| hint\_limit | Integer | Numeric | Maximum number of hints allowed per game | 3 | Must be 3 |
| hint\_count | Integer | Numeric | Number of hints used by the player | 1 | 0 to hint\_limit |
| user\_questions | Integer | Numeric | Number of questions the user chooses to answer | 5 | 1 to max number of questions |
| selected\_option | String | Text | User's selected answer (either number or text) | "A" or "1" | Must match an option from Options |
| avg | Float | Numeric | User's average score percentage | 75.00 | 0 to 100 |
| play\_again | String | Text | User's response to playing again | "yes" | Must be "yes" or "no" |
| valid\_choices | List | List of strings | List of valid quiz topics | ["muay thai", "ufc", "boxing"] | Must match available topics |
| player\_choice | String | Text | User's selected topic for the quiz | "Muay Thai" | Must be in valid\_choices |
| user\_answer | String | Text | The user's inputted answer for a question | "1" or "A" | Must be an option from Options |
| question | Dict | Dictionary | Stores the current question being asked | {"Question": "Who won UFC 100?", "Options": ["X", "Y"], "Answer": "X"} | Must contain keys: Question, Options, Answer |
| option | String | Text | Stores a single option from the question list | "Anderson Silva" | Must be from Options |