Question.py

Short documentation of module

# Introduction

This is a simple module written in Python for picking questions from database. You can provide data from static file or e.g. Rest API.

# Format of source data

Data must be provided in valid JSON format, keeping the right structure.

{

    "questions": [

        {

            "question": "Example question 1",

"points": 3,

            "answers": [

                {

                    "text": "Example answer 1",

                    "isTrue": true

                },

                {

                    "text": "Example answer 2",

                    "isTrue": false

                },

                {

                    "text": "Example answer 3",

                    "isTrue": false

                }

            ]

        },

        {

         "question": "Example question 2",

"points": 2,

            "answers": [

                {

                    "text": "Example answer 1",

                    "isTrue": false

                },

                {

                    "text": "Example answer 2",

                    "isTrue": false

                },

                {

                    "text": "Example answer 3",

                    "isTrue": true

                },

                {

                    "text": "Example answer 4",

                    "isTrue": true

                },

                {

                    "text": "Example answer 5",

                    "isTrue": true

                }

            ]

        }

    ]

}

Main field in JSON is "questions". It’s array of „question” objects.

Table 1: Structure of question

|  |  |  |
| --- | --- | --- |
| Name | Description | Type |
| question | Question text | String |
| points | Question “weight” | Int |
| answers | Possible answers | Array of answer |

Table 2: Structure of answer

|  |  |  |
| --- | --- | --- |
| Name | Descripiton | Type |
| text | Answer text | String |
| isTrue | Determines if answer is true | Bool |

# Using the library

The first what you have to do is import module to your project.

from Question import Question

Then create a new object of class Question. The next thing is to pick a question. You can draw random question by using method drawQuestion() or pick specific question using pickQuestionAt(index). Then you can use all methods listed below.

Table : Available methods

|  |  |  |  |
| --- | --- | --- | --- |
| Method | Parameters | Type | Description |
| drawQuestion | bool fromDb (default False) | void | Draws a question – if fromDb is True – source is your DB, otherwise – DB without previously picked questions |
| getAllQuestions | None | list of string | Returns list of all possible questions |
| getRemainingQuestions | None | list of question | Returns list of remaining questions |
| getCount | None | int | Returns count of all questions |
| getRemainingCount | None | int | Returns count of remaining questions |
| pickQuestionAt | int idx | void | Selects question at specific index |
| getQuestion | None | string | Retruns currently picked question |
| getAllAnswers | None | list of string | Returns list of all possible answers for currently picked question |
| getAllAnswersFor | int idx | list of string | Returns list of all possible answers for question at given index |
| getTrueAnswers | None | list of string | Returns list of answers, which attribute “isTrue” is set to true for currently picked question |
| getTrueAnswersFor | int idx | list of string | Returns list of answers, which attribute “isTrue” is set to true for question at given index |
| checkIfAnswerIsTrue | string answer | bool | Returns “isTrue” of answer which field “text” equals given parameter for currently selected question. If that answer doesn’t exist returns False. |
| checkIfAnswerIdIsTrue | int answerId | bool | Returns “isTrue” of answer at given index for currently selected question. If that answer doesn’t exist returns False. |
| checkIfAnswerIsTrueFor | string answer  int idx | bool | Returns “isTrue” of answer which field “text” equals given parameter for question at given id. If that answer doesn’t exist returns False. |
| checkIfAnswerIdIsTrueFor | int answerId  int idx | bool | Returns “isTrue” of answer at given index for question at given id.. If that answer doesn’t exist returns False. |
| getCurrentIndex | None | int | Returns id of currently picked question |
| isMultiAnswer | None | bool | Returns if currently picked question has many “isTrue” answers |
| isMultiAnswerFor | int idx | bool | Returns if question at given index has many “isTrue” answers |
| getAllAvailablePoints | None | int | Returns all points from questions selected by drawQuestion(False) |
| getQuestionPoint | None | int | Returns points for currently selected question |
| getQuestionPointFor | int idx | int | Returns points for question at given index |