ISIT307 S1, 2024
Assignment #1
Due: 11:30 pm Saturday 03 February 2024
Marks: 25 marks (25%)

The purpose of this assignment is to create an interactive website by using web forms, manipulating strings and arrays, validating/handling user input and using text files (for storing and retrieving information).

Aims

In this assignment, you will need to develop a website **"Funny facts"** that generates funny quizzes. The website should generate questions on two topics: "Music" and "Countries" and offer to the users to answer questions and score points.

At the beginning of an attempt, the user should insert the nickname and choose a topic: "Music" or "Countries". In each attempt, the user is starting with 0 points and can have multiple quizzes on the same or different topic.

After the user finishes the quiz, the result with the number of correct and incorrect questions, gathered points from the current quiz ([number of correct questions]*4 – [number of incorrect questions]*2), as well as the user's overall points in the current attempt (from all quizzes) should be displayed.

The user should be offered to start a new quiz on the same or another topic. Also, the user should have the option to see the overall scores of all players in the game (Leaderboard - cumulative points of all attempts per user), or to "Exit".

The 'Leaderboard' should give an option to the user to order the players by their nicknames or by the greatest score. When the "Exit" option is chosen, the nickname and overall points of the user should be displayed. The option to start a new attempt (by entering the nickname) should be given as well.

For the "Music" topic - the questions should be in a form of an image displayed to the user. The image displayed should present a music artist or bend and have some additional info about the artist/bend. The user should insert/enter the answer (the name of the artist/bend presented in the image) in a text field. If the field is left empty it should be assumed that the user does not know the answer, so that question should be counted as incorrect.

For the "Countries" topic, the question should include interesting fact about some country. The user should answer whether the fact is true or false.

For every topic should be at least 9 questions of which 3, by random choice, should be displayed to the user in every quiz (quiz is generated by displaying 3 randomly chosen questions for the given topic).

The user can navigate thru topics and have unlimited quizzes in the same attempt.

The text files should be used for storing the data needed for the website (questions, points per user/ Leaderboard).

Requirements

1. Design Requirements

The website should have interfaces for:
- Entering the nickname and menu with offered options (Quiz topics, Leaderboard, Exit);
- Quiz with 3 questions;
- Displaying the result from the quiz and overall points in the current attempt;
- 'Leaderboard' with the option to display the list of players (user-points) by their nicknames or by the greatest score;
- Displaying the nickname of the user and overall points (of all - previous and current - attempts) when the attempt is completed (for the "Exit" option).

2. Functionalities
– The user should be able to insert the nickname (at the beginning of the attempt);
– The user should be able to choose different quiz topics (at the beginning and after every quiz);
– The user
   o can have unlimited quizzes in one attempt,
   o can see the result of the current quiz and his/her overall points in the current attempt after every quiz,
   o can see the overall points (of all previous and current attempts) at the end of the attempt,
   o can see the 'Leaderboard';
– The user should have an option to "Exit" and start a new attempt from the beginning.

3. Other Expectations
– The website should have good interfaces and navigation thru the given options.

Submission

1. Prepare a report that has: header

   My name:
   My student number:
   My email address:
   Assignment number:

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   any requirements, remarks, or readme for your web site. The report should also include the list of web site's files, a brief description for each file and a user manual showing the screenshot of all the interface.

2. Submit a ZIP file containing all the assignment files and your report (in .pdf) over Moodle submission link. Name the zip file as A1-TxxxGyy-UOWID1,UOWID2(Name1,Name2).zip where xxx is the tutorial (e.g. T01F, T02F, T01P) and yy is the assigned group number.
2. You are not required to submit a hardcopy of the report, nor copy out all the source code. Make sure you have included all the information needed, so your solution can be run in a browser.
3. The students should present their solutions to the tutor during the next lab session.

NOTES:

1. Submit your assignment before the due date. Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 25% of the assessment mark. This amount is per day including weekends. Work more than 4 days late will be awarded a mark of zero.
2. Submission via email is not acceptable.
3. Assignments without reports will not be marked.
4. Not being able answer to tutor's questions (regarding the website) or not being able to change your program/code, based on the tutor's requests may result in the deduction of marks for the assignment.
5. Enquiries about the marks can only be made within a maximum of 1 week after the assignment results are published.
6. By submitting this assignment, you declare that this assignment is **Your own work and you did not collaborate with or copy from others**.

Assessment Criteria		Total Marks	Given Marks
1.	Structure/Documentation	2	
2.	Interface	6	
3.	Functionality	8	

4.	Presentation and answers to tutor's questions	5	
5.	*Moodle Quiz 1 (individual)*	*4*	
		Total	