INDIVIDUAL PROJECT

PROJECT CONTENT

1. Familiarize yourself with the **mockaroo.com** random data generation service.
2. Using the mockaroo.com service, generate a data set that will be used in the project. The subject of the data set is optional, however, it must be compatible with your field of study.
3. The generated data set should:
   a. Contain 900 rows of data.
   b. Has at least 10 columns.
   c. Include data of the following types: text, numeric, date, boolean, amounts in PLN.
4. Save data to files in the following formats: XML, CSV, JSON.
5. Prepare a visually attractive website that will consist of three sections:
   a. Author
   b. Data
   c. Internet
6. In the **Author** section, in addition to your name and surname, provide information about your studies, your field of study, what made you choose the particular field of study, what are your expectations regarding studies, your achievements so far, your career plans, and your hobbies. You can use photos, drawings or tables to enhance the appearance of this section.
7. In the **Data** section:
   a. Describe in a few sentences your data set and its structure.
   b. Add a table and place the first 10 rows of data in it.
   c. Below the table, add 3 columns in which describe the characteristics of XML, CSV, JSON formats.
   d. At the bottom of the columns, under the description, add buttons that will display the content of the previously created files: XML, CSV, JSON.
8. In the **Internet** section, add a simple form that will allow you to search the web using one of the search engines available on the web. Below, there is an example of a form that functions as a Google search engine. Select another website from the Internet that has search functionality, and then modify the form below to use this search engine. In front of the form add a description of what you can search for. Make the section look more attractive. You can add photos or drawings that would indicate what information will be searched for.

```
<form action="http://google.com/search?">
    <label for="fname">What are you looking for:</label><br>
    <input type="text" id="q" name="q" value=""><br>
    <input type="submit" value="Search">
</form>
```

9. Present the completed project in a video presentation. Details on how to prepare and share the video presentation can be found below.

10. Submit to the Moodle for assessment:

    a. All files included in the completed project.
    b. Link to the video presentation.

11. Project assessment:

    a. 20 pts – web page.
    b. 20 pts – video presentation (presentation of the key elements of the project, how to implement them and the results obtained).

PREPARE THE PROJECT PRESENTATION

12. Prepare a presentation of the project in the form of a video presentation with a duration of 4-5 minutes (the length of the video must be within this range). Present the key elements of your project, how to implement them, show the results. The way the project is presented in the video presentation has a significant impact on the final assessment of the project.

13. At the beginning of the video presentation, give its title and the name of the author.

    https://youtu.be/Dw27xJjTYQs

    https://youtu.be/KgxeYicsRvc

14. Save the video presentation in MP4 format.

15. During the video presentation, your image must be displayed the whole time. If you are discussing the design details you are displaying, place your image in the corner of the screen, such as:

    https://youtu.be/_LWwqbHU8L0

16. As tools, you can use:

    a. To record image and sound from the monitor, with simultaneous image and sound from the camera (your image):
        OBS Studio (https://obsproject.com)
    b. For audio recording and editing:
        Audacity (https://www.audacityteam.org/)
    c. For image and sound editing:
        Shotcut (https://shotcut.org/)

    The proposed tools are completely free, but very popular and also used in professional applications. If you use other tools, you can also use them. You can find the way of using the given tools in a large number of instructional videos available on the youtube platform, for example:

https://www.youtube.com/results?search_query=obs+studio

It's a good idea to break up your presentation into smaller parts, record them separately, and then put them together in an audio and video editing program.

SHARE THE VIDEO PRESENTATION

In order to provide the video presentation for assessment:

17. Put the video presentation (MP4 file) on your OneDrive in your student account. If you have not yet registered an account on the Office 365 platform (in the UEK organization), the registration description can be found at:

    https://ci-pomoc.uek.krakow.pl/pl/student/office365-stud-pl

18. Place the video presentation file (MP4 file) on your OneDrive.

19. Set file sharing for:

    Anyone with a link can view

20. Check if you have created the correct link to the video presentation. Open a web browser window in private / incognito mode. Paste the link and see if the video presentation is displayed correctly without logging in.

21. Upload the link to the Moodle.