**USER DOCUMENTATION**

**BACKEND:**

A new form must be created as it has been seen in our project as well. Due to the fact, that the original form only allows us to collect the data in a singular time into a simple excel sheet, we must allow a new form to collect the data into an **online excel sheet**. This is much more convenient, because it sets up an automatic data collection process that could be used for real-time personal feedback.

Upon entering editing stage within the forms, click on “**Responses**” in the top bar, and fine the **“Open in Excel**” tab. When it is opened, it is important to make sure that the file is saved properly into the university’s cloud drive for easier access.

To make proper data analysis, we ought to use **Python** **and all its necessary packages**. The reason for that is because the best data analysis methods could be implied with this programming languages, due to its efficiency and user-friendliness. (Also, if needed, it can be implemented into Power BI’s interface for extra scripts.)

* <https://www.python.org/downloads/> - install 3.11 version of python (installation tutorial: <https://drive.google.com/file/d/1g818ybVrmrploAtpEn_CizspOSaNDaYz/view?pli=1>)
* Necessary installations for backend-data:
  + Pandas
* All packages has to be downloaded to the same folder and environment as well.
* In the beginning of the Python code, a proper path must be defined for reaching the excel file that contains the data.
  + Within this line of code: “file\_path = "C:/Users/vikiv/OneDrive - Hämeen ammattikorkeakoulu/learnwell\_dataset.xlsx"”
  + find the file path, where the excel sheet is hidden on the computer
  + (Besides this, nothing else has to be changed in the code)

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How to provide the customized feedback in Finnish or English

1. Plan the response in the file at: ./feedbackSettings/feedbackCategoriesPlan.md. Currently there are 8 categories with 3 options for each, so there are 8\*3 = 24 files in English and 24 files in Finnish.

2. Prepare the paragraphs in their respective files in the ./htmlFeedback/paragraphsResponse folder.

3. Based on the selected language option of the user (fi or en) and the calculated score for each category, the respective responses from the txt files in the folder (mentioned in paragraph 2. Above) will load into the response page. Each of the paragraph is displayed in the html file as a <p> element with the id = their category name.

4. As an example, I put all the paragraphs in a file named dynamicFeedback.html

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