
Home Assignment

Overview

This home assignment is the third stage in your Junior Developer application process. The assignment aims to challenge your technical problem-solving, English writing, and presentational skills. You are requested to provide a solution for each of the three requirements with any implementation methods you choose.

User story

Sophie is the manager of a local high school. She wishes to build an automated system that assigns children to their favorite extra curriculum classes. The IT department of the school developed a web service with two endpoints - one that returns the list of teachers with the class subject and another with a list of children and their hobbies. Sophie asks you to build a process that gets those lists using API requests and creates a list of classes that contains all the children that have the class subject in their hobbies list

High-Level Requirements

- Write a program (in any coding language you prefer) that sends GET requests to the API to get the two lists, combine them to one classes XML and write the output to an XML file
- Write a user manual with guidelines for Sophie to be able to run your code. Sophie **does not have any technical skills or knowledge** so try to make the steps as easy as possible
- Create a short presentation (a few slides - shouldn't take more than 10 minutes to present) that explains the implementation process, difficulties, etc.

More details

- Within the ZIP file, there are two inputs (teachers.xml and children.xml) and one output (classes.xml) example for your reference
- The zip also contains the [swagger files](#) of the two endpoints. You can use any HTTP Client (like [Postman](#)) to import the swagger files, send the GET request and see the XML response with the teachers and children's lists
- The layout and schemas of the input and output XMLs will not change, and your code is expected to run on any inputs with this layout and return the correct results
- The code should compile and run on your computer. You will be asked to run it during the presentation
- The presentation will be in English

Good luck!