

Flexible Exports Pilot Brief

Background

Part of our product allows clients to upload their datacentre procedures as Word documents, edit them on our platform, and export them back into the client's original template format.

During export, we take a JSON representation of the document, conforming to a known schema, and use it to populate a Word (.docx) template. If no changes were made on the platform, the exported document should be almost identical to the originally uploaded document.

The Problem

Clients frequently update their procedure templates. When this happens, three things currently need to be updated manually:

- the Word template
- the JSON schema
- the code that maps schema data into the template

This process is slow and fragile.

Goal

Design a more flexible document population system so that, given a template change and a schema change, the population logic can be inferred automatically or with minimal human input. The aim is to significantly reduce the effort required to support client template updates.

You will be provided with:

- a starter JSON schema
- a filled example Word document

You may choose to derive a template from the filled example or your solution may not require one.

Technical Details

- Document format: Word (.docx)
- Input: JSON document conforming to a known schema
- Output: populated Word document
- Preferred language: Python (not required)

Features and Considerations for your solution:

- How easily a new step type be added, what sort of template modifications are required (if you choose to implement a template)?
- How easily can a new section be added?
- Can you make text fields support rich text (HTML)
- Can you support form control features (checkboxes, date selectors, etc...)