



Technical Interview
Platform Engineer

Technical Interview Specification

Interview Timeline: 6 days

Interview Location: Online

Scenario

This task looks to understand your ability to structure a solution in python. This task must be developed in python3 and should have sufficient documentation for us to understand your solution run it without asking you.

The goal is to build an extensible web-based workflow system. The workflow is driven by two types of input:

- Human input via an HTML form.

The process you are going to build loosely reflects some of the processes we use to get data from excel into our system and render visualisations.

The user must enter a customer information and the information captured is as follows:

- First name
- Last name
- Date of Birth

The user is also going to upload a excel file with that has the customer's financial income and expenses in the last 12 months.

All user interaction should just be through super simple HTML forms.

The user must upload the excel file when they capture the customer information.

The system must render a temporal graph showing the customers income and expenditure for the last 12 months.

We will be considering how the workflows are composed, are they defined as some sort of schema?

There is no right answer to these questions, but architectural decisions and the reasoning behind them are important. It should be clear from reading the code and any comments or (lightweight) documentation how we would extend or change the workflow. This is what we are really looking for.

Restraints and considerations

- The system can have only one user, there is no need for login or user management.
- Data storage can be extremely simple, for example: a SQLite DB, an Excel form, or whatever is easiest.
- The UI can be extremely simple, just use HTML forms.
- Feel free to use any web framework, like flask, bottle, or Django.
- For submission:

- Please upload the solution onto your own GitHub or Gitlab account and share the link with us.
- Please include a document explaining your solution in written form.
- Document any assumptions made in the readme file.
- This assessment is due on the 23rd of February 2021.

We do not want to waste your time, so do not worry about unnecessary detail. If there are any ambiguous points in the spec you are unsure of, decide and just let us know what the decision was.