flow2code

Flask Programmer

The test is centered around the usage and implementation of the Flask framework for the purpose of delivering new functionalities and code maintenance in our web application with the use of data coming from external data sources.

The applicant is required to use Flask with SqlAlchemy, Flask-Migrate, Flask-Seeder libraries, Jinja template engine and to pull data from external data sources using python requests. Layout should be built dynamically from the data provided. This means that changing the source data will potentially change the view structure of the app itself.

Task: Virtual assistant

The test will require the application to build simple assistants management site which has following functionalities:

- GET /assistants – displaying source,

- GET /assistants/create – displaying create form,

- POST /assistants – storing source,

- GET /assistants/update – displaying update form,

- PUT /assistants/{id} – updates source,

- DELETE /assistants/{id} – deletes source

There are some requirements in program hierarchy:

- Each assistant must have an attached picture, this picture can be uploaded by a user or the user can choose the generated one. (from e.g https://thispersondoesnotexist.com)
- create and update forms must provide select box which contains available jobs, this jobs should be returned by Your application and taken from http://api.dataatwork.org/v1/jobs , consider using caching
- Each picture should be stored in thumbnail format
- Each request must be properly validated
- Project must have prepared test data in database seeds
- Any form of testing is welcome
- The extendable and readable code will be counted as a plus
- Aesthetically pleasing and well made designs will be counted as a plus
- Documentation will be counted as a plus
- Adding additional functionality is encouraged