

Junko Workplan Pilot

This version: 2022-05-20

Pilot

General plan

objectives:

- Understand level of experience in coding and key concepts
- Discover whether to work together

Duration and parameters

4 weeks at half-time: 2 weeks FTE (~2/3 days equivalent for ron/stew)

Jupyter notebook on python basics

- general concepts
 - import libraries
 - syntax
 - pandas
- parse input files for
 - frameworks
 - impact claims
 - ratings
- comfort with dictionaries and dataframes
- validate input files
 - create list of valid sectors, stakeholders, countries
 - match or flag inputs against valid list
- robustness on reading in files (bonus)
 - swapped columns
 - mis-spelled cols
 - slight changes in col name
 - need to create test data for each

TO-DO (Ron)

- get files from Utkir and Asad for claims and frameworks
- get ratings file from onedrive on ratings and dates
- define outputs
 - output to excel file with flagged cols that have invalid data

- for each flagged col, provide a dict of the col and the type of error (have generic invalid error type)
- pair programming 1x per week for an hour
- provide zipped copy of backend codebase for reference

Docker backend env

Objectives:

- gain experience with different apps within the platform and understand coding practices such as:
 - git
 - method and class documentation
 - organization of code
- understand the major coding and design concepts such as:
 - automated testing
 - REST API
 - modularity
 - fixtures
- gain experience with the key open source libraries:
 - django and django rest framework
 - pandas

Testing of apps

- tests for all APIs
 - countries
 - projects
 - project rating
 - market rating
 - project likelihood
 - market likelihood
 - aimm rating
 - claims
 - project claim
 - market claim
 - typology claimed
 - indicator claimed
 - framework
- tests for fixtures
- tests for data migration and inputs
- tests for exception handling

Prototyping data inputs and migration

- data migration for frameworks
- data migration for claims
- data migration for ratings

Modularization of large methods

- TODO: Sample of large methods to be identified for selection