Technical Assignment

Data Science Lab

Assignment introduction

- This document outlines an assignment given to candidates for the KPN Data Science Lab

- The main purpose of this assignment is

  - Assess technical skills of applicant
  - Assess problem solving methodologies
  - Assess ability to carry out a complete assignment
  - Get a better understanding of how the candidate thinks and reasons when carrying out assignments and solving problems

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Assignment description

Your assignment is to extend a script which connects to outlook exchange server, iterating over emails and storing those emails in json format in the directory of the script.

The application should have the following elements:

1. Fetch and iterate over all emails in the main inbox
2. Store every email separately in json files
   - You can decide which fields are interesting to store for text analytics processing
3. Programatically create a folder "processed" and move each processed email from the inbox to the processed folder

Requirements
- Application is to be built with Python 3, using exchangelib

Expected deliverables
- Full application source code hosted on GitHub or an emailed .zip file
- Clean reusable functions and **unit tests for each function**
- Consideration of how this could be extended to a general type of "EmailProcessor" for other email service providers
- If re-using open source code, a description of which modifications you've made
- A document specifying the known issues, limitations and possible improvements
- When sending us the solution, please keep in mind attachments over 10mb will be blocked by our server

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Assignment description

Keep in mind

The assignment is fairly simple, but with a lot of room for you to show us high quality code and algorithm thinking. Please write an **end-to-end packaged solution that is as complete as possible.**

Good luck!

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