Python Developer Challenge

Thank your for taking the time to complete our at home challenge. The work you provide will be used to judge your ability and approach to tackling a problem. After turning in your result, we will review and follow up with notes, possibly a call, to review your work.

This challenge provides two different prompts that you can choose from. Pick one, and provide your finished work as a git bundle. Take as much time as you need to complete the work, we suggest setting aside roughly 5 hours. This time does not need to be contiguous and may be split across multiple days if necessary due to your own time constraints.

Please try to complete the work within two days of beginning and return the result as directed when you received it.

Guidelines

- Choose One prompt from the two choices to complete that you believe will showcase your ability best.
- Please use Python to complete all work for this project unless directed otherwise.
- Use of external Python dependencies are allowed.
- Provide any documentation, packaging etc that is required to utilize your work.
- What you provide must run when the reviewer attempts to do so.
- You cannot alter the data provided in code_challenge_data_1.txt, it must be used as-is.
- Your completed challenge must be provided as a git bundle*.

Challenge 1

Create an application that parses the file 'code_challenge_data_1.txt' data and provides a RESTFul API to serve the data as if it were to be used by a web application. The web app could be used to search for phone numbers by country, region, local exchange etc so be cognizant of how you make the data accessible. You are not required to provide the front-end, but you may.

Challenge 2

Create an application that when given one or more eBooks in text form from Project Gutenberg (gutenberg.org), your choice of books, provide the top ten words by frequency out of all of the provided books. The output is also up to you but it should be consistent, and should be able to handle many books. Always keep in mind usability and presentation. An application that is hard to use and difficult to understand the output thereof will not be used long.

* Git Bundle : https://git-scm.com/docs/git-bundle