**USDS DevOps Engineering Take-Home Assessment**

**Purpose**

The United States Federal Government has over 200,000 federal regulations across ~150 main agencies, all of which can be found within the eCFR at <https://www.ecfr.gov/>. There is a public API for it.

The goal of this assessment is to create a website JSON API to analyze Federal Regulations to allow for more digestible and actionable insights to be made on potential deregulation efforts across the government.

**Instructions**

1. Please write code to analyze the existing eCFR and display the size of each federal agency’s regulations.
   * The JSON API you provide should return each agency’s name correlated with the data size in Megabytes of regulations in the eCFR for that agency.
   * The content returned by this API should reflect changes to the regulations in the eCFR within 24 hours of those changes being published, without modifying the API source code.
2. Build a functioning deployment of your JSON API that is not hosted on your local machine.
   * If you move forward in the process, be ready to demonstrate it running live during an interview.
   * Also be prepared to screen share during the interview to apply a change to the system in front of the interviewer and to demonstrate the result of the change.
3. **Please submit this assignment via KiteWorks by the deadline your USDS recruiter provided.**
   * You will receive a separate email with a KiteWorks link – please check your spam folder if you do not see it.
     + Please contact us if you do not receive the KiteWorks link within 24 hours of receiving this email.
   * When submitting, please include the following:
     + Zip file containing source code ***(please ensure that the zip file can be extracted properly before sending)***.
     + Document including:
       - Feedback on the project, including any comments you may want to add on how your expertise / skillset fits this assessment.
       - Duration it took you to complete it.
       - A URL to a running instance of your project code which demonstrates the required JSON API listing agency names and regulation word counts.
   * We advise you spend no more than 4 hours on this assignment.

Thank you and we look forward to reviewing your submission.