Case Study Overview:

Your case study will be a take home mini-project
Please do not spend more than 8 hours preparing materials for this case study.

The complexity and extent of the mini-project is determined by the applicant. If additional features or complexity are added beyond the minimum requirements, please include an explanation of those features. At a minimum, the project deliverable should adhere to the requirements and constraints listed below.

Prompt:
1. *Write a script that formats a U.S. phone number that has been submitted.*
2. *Dockerize the script so that it can be executed by running the container.*
3. *Make a technical spec for the script to work as an API on AWS*
   a. *Include the following:*
      i. *Diagram(s) of the technical architecture*
      ii. *System requirements needed for effective use and stability in a production-level environment*

Example script output: "XXX-XXX-XXXX"

Required Features:
Script input should come from an environment variable.
Input command should include at least the following:
        Docker run -e PHONE="XXXXXXXXX" container_name

Technical FAQ:
- Docker Container - Either include a ready-to-use container, or provide a build script.
- Packages - Please only include packages that are necessary for the prompt.
- Instructions - Please include instructions for container usage & set up.
- Comments - Adding context through the use of comments is highly encouraged.
- Language - The Script can be written in any coding language. Please include an explanation for why that language was selected for this prompt.
- API - building the API mentioned in the prompt is not required.
- Testing - including an automated test on the script is optional.
- Scale - Best practices for efficient memory usage should be considered in code or comments.
- Best Practices - Coding and infrastructure best practices are highly encouraged. If a best practice is too time intensive to include, leave a comment in your code explaining your ideal approach.

Project Deadline:
This case is expected to be completed within 2-3 days. If timelines deviate significantly from this timeline (either shorter or longer), expectations for the deliverable will be adjusted accordingly.
Please reach out to doug@engagedmd.com with any questions.