Full Stack Engineering Take Home Coding Challenge

Introduction

Hello! Your mission, should you choose to accept it, is to create a hosted single page application (SPA) that interacts with a hosted backed API that you create and deploy. Please host your code on Github and share it and the url for the SPA with us. Thank you! We value your time and look forward to reviewing your code.

Requirements

1. Create 1 backend API endpoint and deploy it to a host of your choice
   1. Please use either:
      1. Python / Flask or
      2. Node / Express
   2. Your API should have two endpoints
      1. GET /generate
         1. Should generate and return a Medicare Beneficiary Identifier (MBI)
            a. Note: please format the MBI based on the updated January 1, 2020 standards
      2. POST /verify
         1. Should validate a Medicare Beneficiary Identifier's (MBI) format and return true or false
2. Create a frontend SPA with 1 page and deploy it to a host of your choice
   1. Use React, Angular, or Vue
   2. The SPA should have:
      1. A button that calls the /generate endpoint and displays a Medicare Beneficiary Identifier (MBI)
      2. A form field to enter and verify the format of a Medicare Beneficiary Identifier (MBI)
      3. A button to submit the verification form
         1. Display the result of the /verify API call near the form field

Deliverables

1. Put your code in a Github repository and share it and the hosted url for the SPA with us
   a. Please send a url for each Github repository
   b. Please send a url for the hosted SPA
2. Use Heroku or similar free hosting