(AWS Bootcamp) Python Portfolio Project

In this bootcamp, we have covered a lot of material regarding python scripting, and integrating it with python SDKs to manipulate S3 buckets and objects. Those skills are transferable and can be used with other AWS services. So for this project, you will shift gears and build scripts using python to work with compute and network resources this time. Your script is for one of your clients and you want to make it user-friendly. So when the user executes the script, the scripts should accomplish the following:

1. Prompt the user for an EC2 instance name
2. Check your AWS account if the name already exists (**Hint**: Check the values of EC2 instances tagged with the key ‘Name’)
   1. If returns true, notify the user and prompt for the instance name again
   2. If returns false
      1. Create a t3.micro EC2 instance
      2. Add a security group to permit SSH into the virtual machine
      3. Check status of the instance every 10 seconds
         1. While the EC2 instance is in the pending state, notify the user it is still pending.
         2. When the EC2 instance reaches the running state, notify the user it is running and just waiting on the health checks
3. Exit the script

**Submission**

Record a Loom video of 2-3 minutes to present your project. Demonstrate the creation of this instance, your ability to connect to the same instance, and the experience the user would have during the execution of this script. As you record, picture your manager or a hiring manager watching this. The quality of communication and the way to convey your presentation needs to be at the level of professionalism you would communicate to a hiring manager.