Plasmatic Technologies Junior Full Stack Assessment Project

This project provides qualified candidates the opportunity to demonstrate their mastery of Nodejs and basic AWS skills. Plasmatic Technologies uses a full range of AWS technologies and utilizes the Serverless Framework (https://www.serverless.com/) to provide easy implementation of our solutions.

The project is a very simple full stack development effort that is designed to assess the candidate's mastery of core technology required for the role.

* The project must be completed using NodeJS v14 *

As you build out this project:

- Implement https://petstore.swagger.io/, do only the pet and store, no authentication is needed
- The REST API should utilize AWS API Gateway, serviced by an AWS Lambda, and be stored in a DynamoDB table. Attention should be given to validating query parameters and other parts of the REST methods
- Be sure to demonstrate logging of functionality and using Cloudwatch Logs and Metrics to explain how the application is working
- Include Jest testing to demonstrate knowledge of how to test, partial testing to demonstrate abilities and understanding of testing is acceptable
- Optional – React interface to show data

Additional AWS services that are known by the candidate may be used in this demonstration to showcase abilities. (AWS SQS, AWS S3, AWS Kinesis, AWS Eventbridge, and AWS Step Functions are all used by Plasmatic Technologies).

Demonstration of the implementation will be with Postman and, if chosen to implement, the React interface.

Upon completion of the project, the candidate will be given the opportunity to explain:

- how API Gateway and AWS Lambda interact;
- how authentication would be implemented with API Gateway;
- how to use Cloudwatch Logs to show error conditions or well functioning calls;
- how the scalability of the solution may or not be improved; and
- any other technologies and how/why they were used in the demonstration.