



Associate Engineering Challenge - Cloud

Overview

Design and develop a RESTful microservice that handles managing and authenticating Users.

Project requirements

- Microservice must be built in NodeJS and Express (ES6 is preferred)
- Microservice must have a SQL or NoSQL data store
- Create a Users resource model (email and password are required)
- RESTful endpoints to support the following:
 - CRUD operations on the Users resource
 - User logins
 - Refreshing a JWT
- An access JWT should be required and authenticated on all CRUD operation endpoints
- API coverage tests with your tool of choice (Mocha and Chai is a good testing framework)

Please provide the following with your project

- Access to a Git repository or a .zip file for your project (Git repo is preferred as your Git history will have an impact on your project)
- README that clearly documents resources needed and instructions on how to run your project
- API documentation with your tool of choice (Postman collection is acceptable)

Impress us with

- Dockerize your project to allow resources to be ran locally with docker compose
- Implement User Roles to manage access and permissions to the Users resource
- Implement database auto-migrations
- RESTful endpoint(s) to support retrieving forgotten passwords and verifying email addresses (email sender to send templated emails is a big plus)
- Be creative with your project

Please note: the above are not requirements, but will help us determine your level of experience with the technology used in this project.