Cloud Audition Project

Objective

Develop a simple REST API service (details below). Present your project to some developers on our team.

Presentation

Be prepared to present your project to us:

- Demo the service running
- Show a diagram which describes the architecture
- Walk through the code

Here are some of the things we are looking for:

- Code quality: e.g. style, complexity, good practices, testing
- Application architecture: e.g. design patterns, modularity
- API design quality: e.g. following standards and good practices
- Documentation quality: e.g. content quality, completeness and accuracy

Project Details

Create an application which manages messages and provides details about those messages, specifically whether or not a message is a palindrome. Your application should support the following operations:

- Create, retrieve, update, and delete a message
- List messages

These operations should follow proper RESTful design.

Additional Guidelines

Follow these additional guidelines:

- Implement in your favorite programming language (e.g. JavaScript, Go or other)
- Include a README.md which has the following:
  - Brief description of the architecture
  - How to build, deploy, test and access your app (i.e. tell us how to run your code)
  - Some REST API documentation
- Provide testing evidence
- Focus on the API and the service; a UI for the API is not expected
- Avoid use of code generators and proprietary tools/libraries

Bonus

Consider adding the following for extra value:

- Containerize the app, i.e. deploy and run your app using Docker and/or Kubernetes
- Deploy to a Cloud Provider (e.g., AWS) and expose the app via a public DNS record
- Build a CLI (command-line interface) that uses your API
- Integrate with a CI (continuous integration) tool for automated testing
- Anything else to make your project standout

Submission Details

- Submit your code to a Github or Bitbucket repository
- To focus the presentation, submit a *single* project or implementation
- If you have any questions, please ask