



Ceresti Health

Code Exercise - Back-end Developer

Introduction

The purpose of this exercise is to assess the candidates ability to design a solution and implement it in Go. This exercise should be done independently but it is expected that the candidate will reference Go language tutorials and help.

The candidate is expected to do the following:

- Create a github.com repository for sharing the results
- Code a solution using Go
- Create appropriate unit tests
- Create a compilable working solution
- As necessary provide instructions on how to use the solution

Todo List Manager

Problem Description

Create a RESTful service that will support the maintenance of a simple list of todo's. The service should support the following API:

Action	URL	HTTP Method	Request Body
Create	http://localhost/task/add	POST	JSON
Read	http://localhost/task/:id	GET	JSON
Read	http://localhost/task/list	GET	JSON
Update	http://localhost/task/:id	PUT	JSON
Delete	http://localhost/task/delete/:id	DELETE	JSON

Create

The Create method will accept JSON formatted data. The data should contain:

- Task description
- Due Date
- Completed (boolean)

Read

This Read method will accept a task id (:id) and will return the data for the task

Read

This Read method will return all tasks and associated data

Update

The Update method will accept a task id (:id) and a full set of data. It is okay if this method just replaces what already exists for the task.

Delete

The Delete method will remove the task identified by :id.

User Interface

No user interface is expected as part of this exercise. Your RESTful service should be able to respond to 'curl' requests via a command line terminal.

For example:

Create

```
curl -H "Content-Type: application/json" -X POST -d '{"JSON":  
"HERE"}' http://localhost/task/add
```

Read

```
curl http://localhost/task/list
```

Update

```
curl -H "Content-Type: application/json" -X PUT -d '{"JSON": "HERE"}'  
http://localhost/task/1234
```

Delete

```
curl -X DELETE http://localhost/task/delete/1234
```