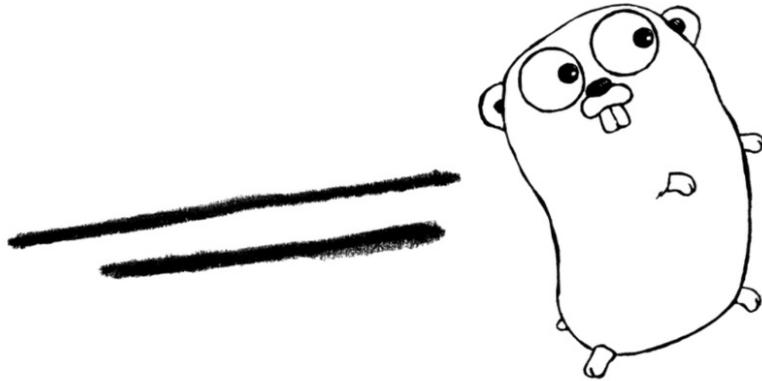


Go Restful With MongoDB

[in linkedin.com/pulse/go-restful-mongodb-moshe-beeri](https://www.linkedin.com/pulse/go-restful-mongodb-moshe-beeri)



I am just starting to learn the wonderful Go language, somehow I decided my Hello World! program will be implementing a restful micro-service that is delegating to MongoDB, while implementing I was thinking that the idea of using MongoDB is a bit not Google way, I more of expected go to naturally connect with Firestore running as cloud function, but learning Go Restful and MongoDB in one struck seems large enough bit to take, so I left it for the next time.

The result is a this "one pager", you may also find it on my [GitHub](https://github.com/moshebeeri/gorest)
<https://github.com/moshebeeri/gorest>

```
package main
import (
    "context"
    "encoding/json"
    "fmt"
    "io/ioutil"
    "log"
    "net/http"

    "go.mongodb.org/mongo-driver/bson"
    "go.mongodb.org/mongo-driver/bson/primitive"
    "go.mongodb.org/mongo-driver/mongo"
    "go.mongodb.org/mongo-driver/mongo/options"
)

// Feature information
type Feature struct {
    Name      string `json:"name"`
    Description string `json:"description"``
```

```
}
```

```
var collection *mongo.Collection
```

```
func httpServerFunc(w http.ResponseWriter, r *http.Request) {  
    if r.URL.Path != "/" {  
        http.Error(w, "404 not found.", http.StatusNotFound); return  
    }  
    switch r.Method {  
    case "GET":  
        id := r.URL.Query().Get("id")  
        fmt.Println("collection.FindOne: ", id)  
  
        var feature Feature  
        objectID, _ := primitive.ObjectIDFromHex(id)  
        filter := bson.M{"_id": objectID}  
        err := collection.FindOne(context.TODO(), filter).Decode(&feature)  
        if err != nil {  
            log.Fatal(err)  
        }  
        fmt.Printf("Found a single document: %+v\n", feature)  
        json.NewEncoder(w).Encode(feature)  
  
    case "POST":  
        reqBody, err := ioutil.ReadAll(r.Body)  
        if err != nil {  
            log.Fatal(err)  
        }  
        var feature Feature  
        if err := json.Unmarshal([]byte(reqBody), &feature); err != nil {  
            panic(err)  
        }  
        insertResult, err := collection.InsertOne(context.TODO(), feature)  
        if err != nil {  
            log.Fatal(err)  
            fmt.Fprintf(w, "ParseForm() err: %v", err)  
            return  
        }  
        fmt.Println("Inserted a single document: ", insertResult.InsertedID)  
    default:  
        fmt.Fprintf(w, "Sorry, only GET and POST methods are supported.")  
    }  
}
```

```
func main() {  
    // Set client options  
    clientOptions := options.Client().ApplyURI("mongodb://localhost:27017/go")  
    // Connect to MongoDB  
    client, err := mongo.Connect(context.TODO(), clientOptions)
```

```
if err != nil {
    log.Fatal(err)
}
// Check the connection
err = client.Ping(context.TODO(), nil)
if err != nil {
    log.Fatal(err)
}
fmt.Println("Connected to MongoDB!")
collection = client.Database("go").Collection("features")
http.HandleFunc("/", httpServerFunc)
err = http.ListenAndServe("localhost:8765", nil)
if err != nil {
    log.Fatal("ListenAndServe", err)
}
}
```