EXAMEN Keuze deel, Inspelen op Innovaties.

Wolf olthuis,

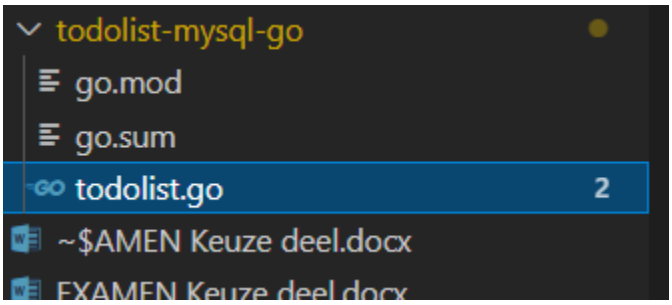
Opdracht 1.4

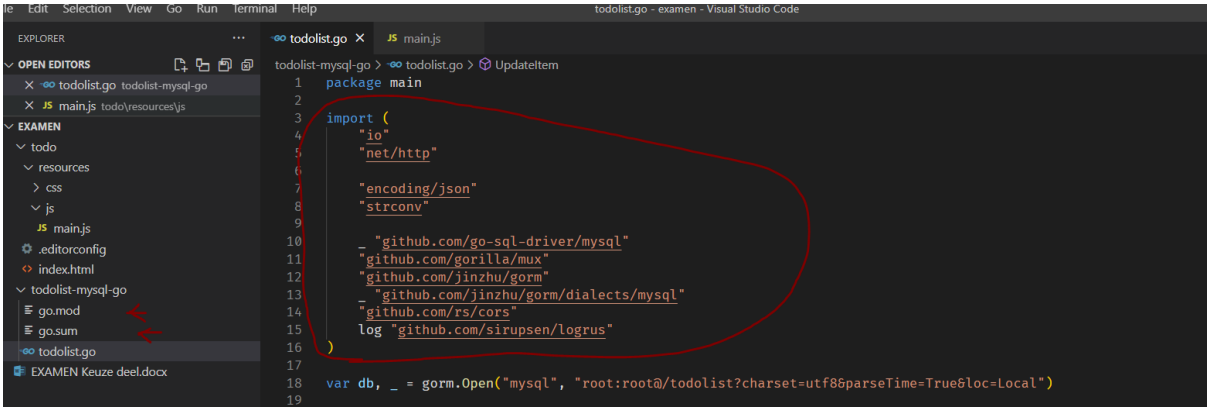
Inhouds Opgave

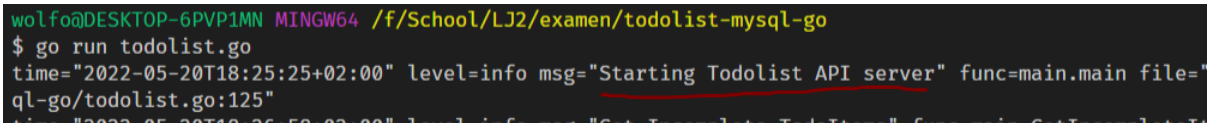
Opdracht 1.4

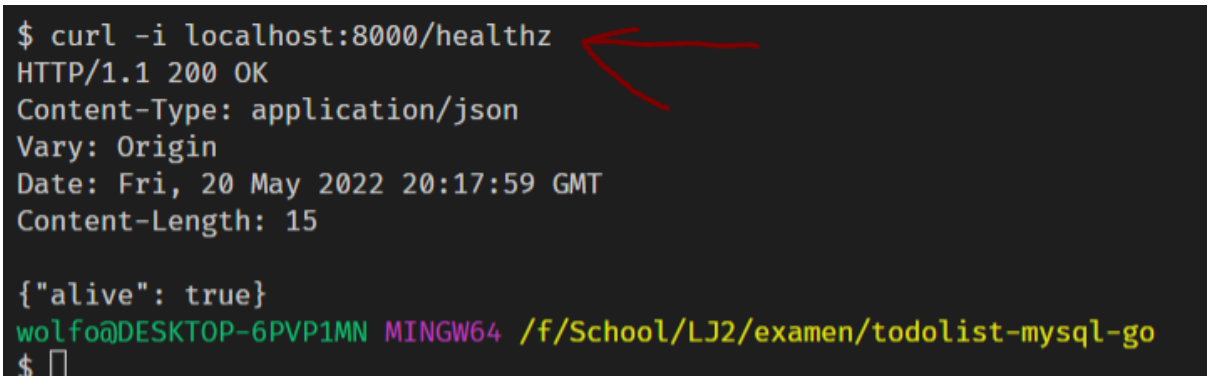
Tutorial Volgen

Stap 1. Project aanmaken, dependencies importeren en API live kunnen zetten.

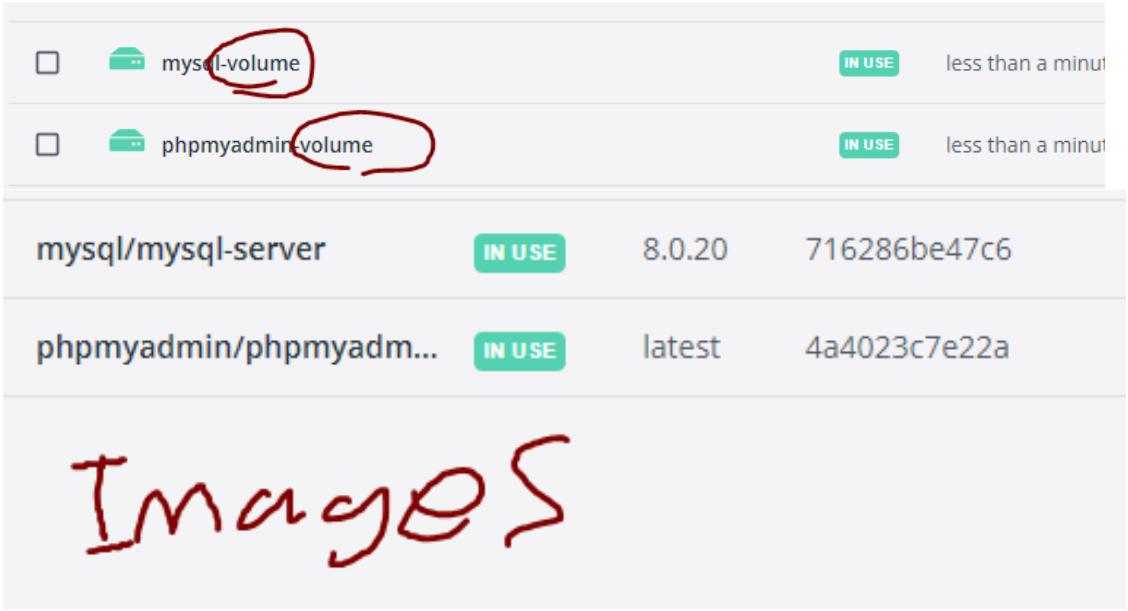


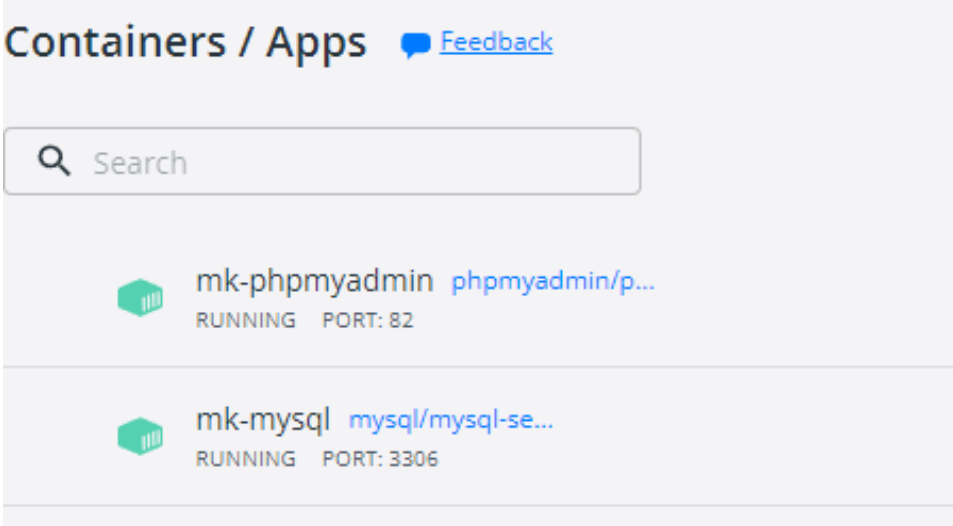




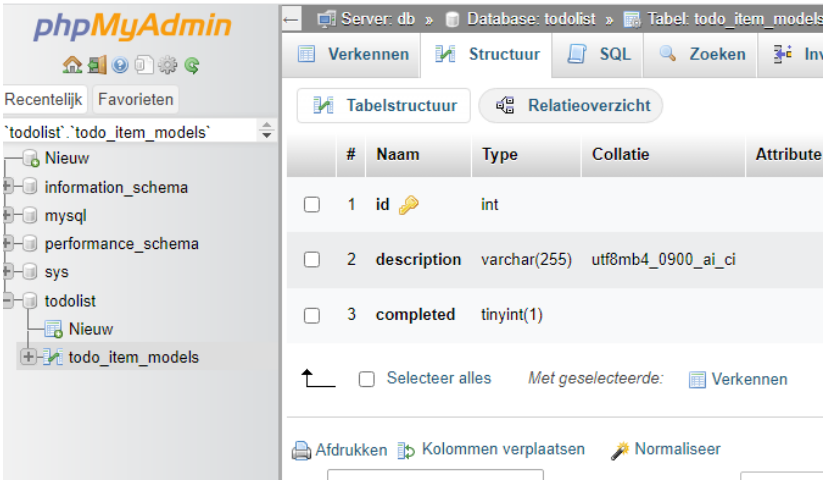


Stap 2. MySQL instaleren op Docker, PhPMyAdmin instaleren op Docker.





Stap 3. Tabel op Op MySQL aanmaken.



Stap 4. Alle C.R.U.D functies toevoegen.

Create :

```
func CreateItem(w http.ResponseWriter, r *http.Request) {
    description := r.FormValue("description")
    log.WithFields(log.Fields{"description": description}).Info("Add new TodoItem. Saving to database.")
    todo := &TodoItemModel{Description: description, Completed: false}
    db.Create(&todo)
    result := db.Last(&todo)
    w.Header().Set("Content-Type", "application/json")
    json.NewEncoder(w).Encode(result.Value)

}
```

Read :

```go
func GetCompletedItems(w http.ResponseWriter, r *http.Request) {
    log.Info("Get completed TodoItems")
    completedTodoItems := GetTodoItems(true)
    w.Header().Set("Content-Type", "application/json")
    json.NewEncoder(w).Encode(completedTodoItems)
}

func GetIncompleteItems(w http.ResponseWriter, r *http.Request) {
    log.Info("Get Incomplete TodoItems")
    IncompleteTodoItems := GetTodoItems(false)
    w.Header().Set("Content-Type", "application/json")
    json.NewEncoder(w).Encode(IncompleteTodoItems)
}

func GetTodoItems(completed bool) interface{} {
    var todos []TodoItemModel
    TodoItems := db.Where("completed = ?", completed).Find(&todos).Value
    return TodoItems
}
```

Update :

```go
var db, _ = gorm.Open("mysql", "root:root@/todolist?charset=utf8&parseTime=True&loc=Local")

func UpdateItem(w http.ResponseWriter, r *http.Request) {
    // Get URL parameter from mux
    vars := mux.Vars(r)
    id, _ := strconv.Atoi(vars["id"])

    // Test if the TodoItem exist in DB
    err := GetItemByID(id)
    if err == false {
        w.Header().Set("Content-Type", "application/json")
        io.WriteString(w, `{"updated": false, "error": "Record Not Found"}`)
    } else {
        completed, _ := strconv.ParseBool(r.FormValue("completed"))
        log.WithFields(log.Fields{"Id": id, "Completed": completed}).Info("Updating TodoItem")
        todo := &TodoItemModel{}
        db.First(&todo, id)
        todo.Completed = completed
        db.Save(&todo)
        w.Header().Set("Content-Type", "application/json")
        io.WriteString(w, `{"updated": true}`)
    }
}
```

Delete :

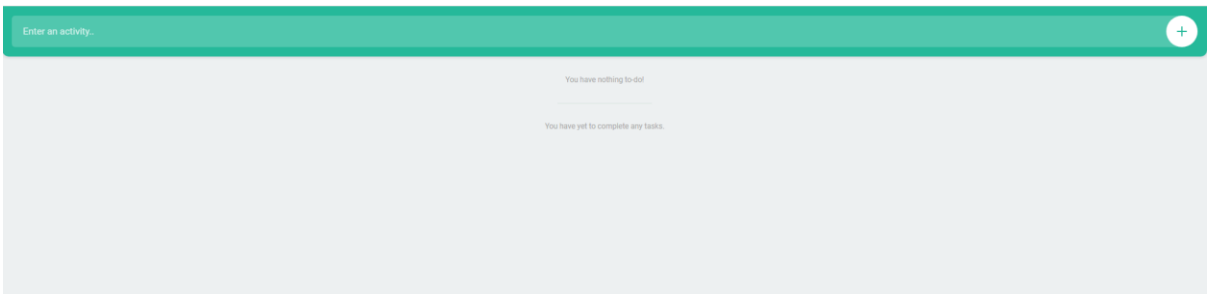
```go
func DeleteItem(w http.ResponseWriter, r *http.Request) {
    // Get URL parameter from mux
    vars := mux.Vars(r)
    id, _ := strconv.Atoi(vars["id"])

    // Test if the TodoItem exist in DB
    err := GetItemByID(id)
    if err == false {
        w.Header().Set("Content-Type", "application/json")
        io.WriteString(w, `{"deleted": false, "error": "Record Not Found"}`)
    } else {
        log.WithFields(log.Fields{"Id": id}).Info("Deleting TodoItem")
        todo := &TodoItemModel{}
        db.First(&todo, id)
        db.Delete(&todo)
        w.Header().Set("Content-Type", "application/json")
        io.WriteString(w, `{"deleted": true}`)
    }
}
```

Stap 5. Connecten met FrontEnd

Now clone my front-end site for this Go app.

```
$ git clone https://github.com/sdil/todo.git
```

In de FrontEnd Js word er gepost naar de port van de GoLang Backend


Enter an activity..
You have nothing to-do!
You have yet to complete any tasks.