

EXAMEN Keuze deel, Inspelen op Innovaties.

Wolf olthuis,

Opdracht 1.4

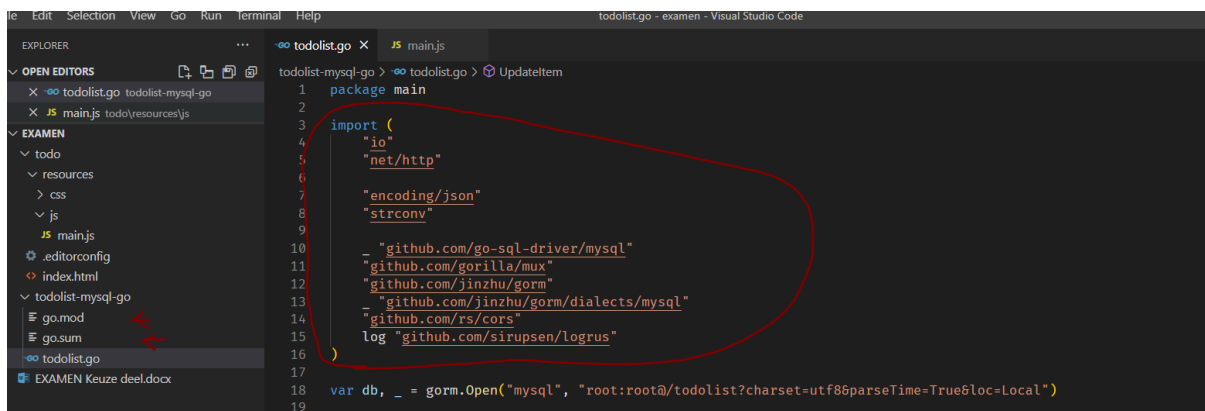
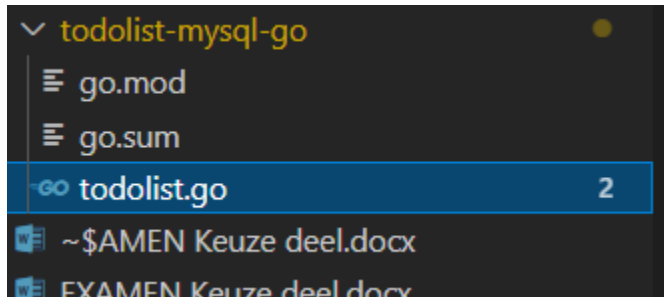
Inhouds Opgave

OPDRACHT 1.4	2
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Opdracht 1.4

Tutorial Volgen

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





```
wolfo@DESKTOP-6PVP1MN MINGW64 /f/School/LJ2/examen/todolist-mysql-go
$ go run todolist.go
time="2022-05-20T18:25:25+02:00" level=info msg="Starting Todolist API server" func=main.main file="
ql-go/todolist.go:125"
```

```
$ curl -i localhost:8000/healthz
HTTP/1.1 200 OK
Content-Type: application/json
Vary: Origin
Date: Fri, 20 May 2022 20:17:59 GMT
Content-Length: 15

{"alive": true}
wolfo@DESKTOP-6PVP1MN MINGW64 /f/School/LJ2/examen/todolist-mysql-go
$
```

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

<input type="checkbox"/>	 mysql-volume	IN USE	less than a minute
<input type="checkbox"/>	 phpmyadmin-volume	IN USE	less than a minute

mysql/mysql-server	IN USE	8.0.20	716286be47c6
phpmyadmin/phpmyadm...	IN USE	latest	4a4023c7e22a

Images

Containers / Apps [Feedback](#)

Search



mk-phpmyadmin [phpmyadmin/p...](#)

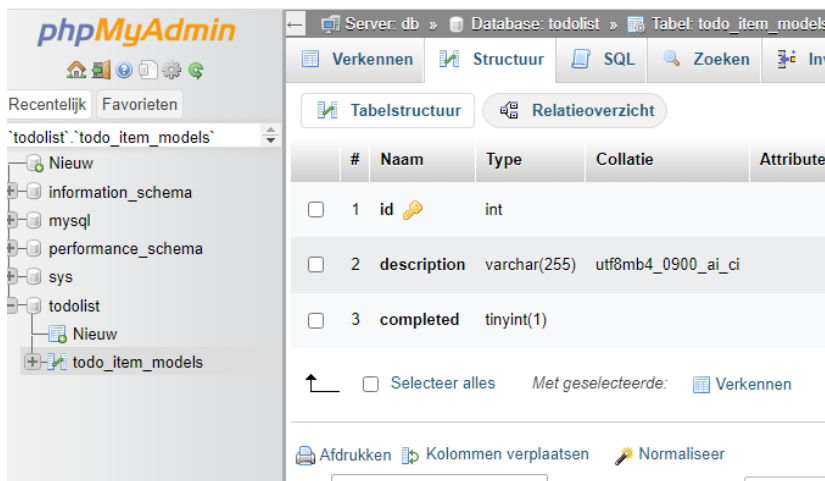
RUNNING PORT: 82



mk-mysql [mysql/mysql-se...](#)

RUNNING PORT: 3306

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 :

```

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 :

```

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 :

```

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.