Beginner Golang

ACTIVITY 8

(Web Server GO, JSON, dan Polymer)

Format save : Pert8_Act1_nama_npm.docx

Soal!

- 1. Buatlah program API sederhana dengan format data JSON. Kode dan output dpat dilihat pada video Activity JSON.mp4 (**Poin 50**)
- 2. Buatlah program untuk menampilkan data pada soal nomor 1 dalam sebuah tampilan HTML. Kode dan output dpat dilihat pada video Activity JSON Web.mp4 (*Poin 50*)

Jawaban

1. Kodingan

```
package main
import (
    "encoding/json"
    "fmt"
    "net/http"
func main() {
    http.HandleFunc("/api/mahasiswa", user)
    fmt.Println("Web berjalan pada port 8005")
    http.ListenAndServe(":8005", nil)
type lepkom struct {
    Nama string `json:"nama_mahasiswa "`
    Kursus string `json:"kursus_mahasiswa"`
    Foto string `json:"foto_mahasiswa"`
var data_mahasiswa = []lepkom{
        Nama:
                "Didin",
        Kursus: "Beginer web",
        Foto: "img/gambar1.jpg",
    },
func user(w http.ResponseWriter, r *http.Request) {
    w.Header().Set("Content-type", "application/json")
```

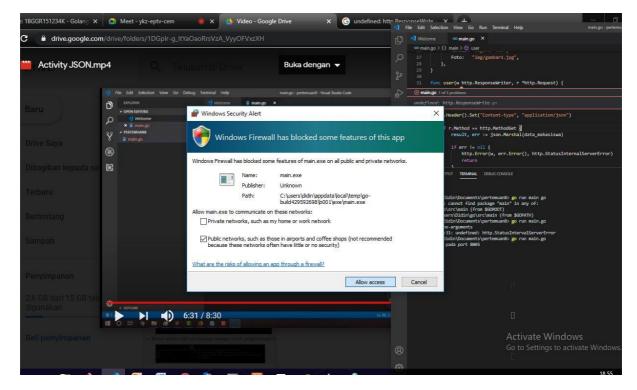
```
if r.Method == http.MethodGet {
    result, err := json.Marshal(data_mahasiswa)

if err != nil {
    http.Error(w, err.Error(), http.StatusInternalServerError)
    return
}

w.Write(result)
    return
}

2.
```

Perintah untuk menjalankan program



```
Course: 1BGGR151234K - Golang X Meet - ykz-eptv-cem X Video - Google Drive X Cocalhost: 8005/api/mahasiswa X + C O localhost: 8005/api/mahasiswa

[{"nama_mahasiswa ":"Didin", "kursus_mahasiswa": "Beginer web", "foto_mahasiswa": "img/gambar1.jpg"}]
```

3. Kodingan

Main.go

```
package main
import (
    "encoding/json"
    "fmt"
    "net/http"
func main() {
    http.Handle("/", http.FileServer(http.Dir("polymer-starter-kit")))
    http.HandleFunc("/api/mahasiswa", user)
    fmt.Println("Web berjalan pada port 8075")
   http.ListenAndServe(":8075", nil)
type lepkom struct {
    Nama string `json:"nama_mahasiswa "`
    Kursus string `json:"kursus_mahasiswa"`
    Foto string `json:"foto_mahasiswa"`
var data_mahasiswa = []lepkom{
        Nama:
               "Didin",
        Kursus: "Beginer web",
        Foto: "img/gambar1.jpg",
    },
func user(w http.ResponseWriter, r *http.Request) {
   w.Header().Set("Content-type", "application/json")
    if r.Method == http.MethodGet {
```

```
result, err := json.Marshal(data_mahasiswa)

if err != nil {
    http.Error(w, err.Error(), http.StatusInternalServerError)
    return
}

w.Write(result)
return
}
```

Myview1.html

```
@license
Copyright (c) 2016 The Polymer Project Authors. All rights reserved.
This code may only be used under the BSD style license found at http://polymer
.github.io/LICENSE.txt
The complete set of authors may be found at http://polymer.github.io/AUTHORS.t
The complete set of contributors may be found at http://polymer.github.io/CONT
RIBUTORS.txt
Code distributed by Google as part of the polymer project is also
subject to an additional IP rights grant found at http://polymer.github.io/PAT
<link rel="import" href="../bower_components/polymer/polymer-element.html">
<link rel="import" href="../bower_components/iron-ajax/iron-ajax.html">
<link rel="import" href="shared-styles.html">
<dom-module id="my-view1">
  <template>
    <style include="shared-styles">
      :host {
        display: block;
        padding: 10px;
      .card{
        width:24%;
        display: inline-block;
        overflow: hidden;
      }
      .gambar{
        width:100%;
        height:100px;
```

```
</style>
  <center><h1>Daftar Nama Mahasiswa Kursus Lepkom</h1></center>
  <template is="dom-repeat" items="[[data]]">
    <div class="card">
       <img src="[[item.foto_mahasiswa]]" alt="gambar" class="gambar">
         Nama : [[item.nama mahasiswa]]
         Kursus : [[item.kursus_mahasiswa]]
    </div>
   </template>
   <iron-ajax</pre>
       auto
       url="/api/mahasiswa"
       handle-as="json"
       method="GET"
       on-response=" handleResponse"
       debounce-duration="300">
   </iron-ajax>
 </template>
 <script>
   class MyView1 extends Polymer.Element {
     static get is() { return 'my-view1'; }
     static get properties(){
       return{
         data : {
           type : Object,
           notify: true,
     _handleResponse(e){
       this.data = e.detail.response
     }
   window.customElements.define(MyView1.is, MyView1);
 </script>
</dom-module>
```

Running program

```
Windows PowerShell
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PS C:\Users\Didin\Documents\pertemuan8> go run main.go
Web berjalan pada port 8085
PS C:\Users\Didin\Documents\pertemuan8> []
```

Output Program

