



GOLANG FOR BEGINER PERTEMUAN 8



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## ACT



Mata Praktikum : 2BGGR181630K - GOLANG FOR BEGINNER

Kelas : 2IA20

Praktikum ke- : 8

Tanggal : 21 Mei 2022

Materi : golang

NPM : 50420900

Nama : Muhammad Reza Hidayat

Ketua Asisten : Abadi Suryo

Nama Asisten :

Paraf Asisten :

Jumlah Lembar :



**LABORATORIUM TEKNIK INFORMATIKA**  
**UNIVERSITAS GUNADARMA**

**2021**

1. Buatlah program API sederhana dengan format data JSON. Kode dan output dapat dilihat pada video Activity JSON.mp4 (Poin 50)

```
main.go

1 package main
2
3 import (
4     "encoding/json"
5     "fmt"
6     "net/http"
7 )
8
9 func main() {
10     http.Handle("/", http.FileServer(http.Dir("polymer")))
11     http.HandleFunc("/api/mahasiswa", user)
12     fmt.Println("web Berjalan dengan port 5020")
13     http.ListenAndServe(":5021", nil)
14 }
15
16 type Lepkom struct {
17     Nama    string `json:"nama_mahasiswa"`
18     Kursus  string `json:"kursus_mahasiswa"`
19     Foto    string `json:"foto_mahasiswa"`
20 }
21
22 var data_mahasiswa = []Lepkom{
23     {
24         Nama:    "Muhammad Reza Hidayat",
25         Kursus:  "Golang For Beginner",
26         Foto:    "img/reza.png",
27     },
28 }
29
30 func user(w http.ResponseWriter, r *http.Request) {
31     w.Header().Set("Content-type", "application/json")
32
33     if r.Method == http.MethodGet {
34         result, err := json.Marshal(data_mahasiswa)
35
36         if err != nil {
37             http.Error(w, err.Error(), http.StatusInternalServerError)
38             return
39         }
40         w.Write(result)
41         return
42     }
43 }
44
```

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)

```
my-view1.html
1 <!--
2 @license
3 Copyright (c) 2016 The Polymer Project Authors. All rights reserved.
4 This code may only be used under the BSD style license found at http://polymer.github.io/LICENSE.txt
5 The complete set of authors may be found at http://polymer.github.io/AUTHORS.txt
6 The complete set of contributors may be found at http://polymer.github.io/CONTRIBUTORS.txt
7 Code distributed by Google as part of the polymer project is also
8 subject to an additional IP rights grant found at http://polymer.github.io/PATENTS.txt
9 -->
10
11 <link rel="import" href="../../bower_components/polymer/polymer-element.html">
12 <link rel="import" href="../../bower_components/iron-ajax/iron-ajax.html">
13 <link rel="import" href="shared-styles.html">
14
15 <dom-module id="my-view1">
16   <template>
17     <style include="shared-styles">
18       :host {
19         display: block;
20
21         padding: 10px;
22       }
23
24       .card{
25         width: 24%;
26         display: inline-block;
27         overflow: hidden;
28       }
29
30       .gambar{
31         width: 100%;
32         height: 180px;
33       }
34     </style>
35
36     <center><h1>Datar Nama Mahasiswa Kursus Lepkom</h1></center>
37     <template is="dom-repeat" items="[[data]]">
38       <div class="card">
39         
40         <p>Nama : [[item.nama_mahasiswa]]</p>
41         <p>Kursus : [[item.kursus_mahasiswa]]</p>
42       </div>
43     </template>
44
45     <iron-ajax
46       auto
47       url="/api/mahasiswa"
48       handle-as="json"
49       method="GET"
50       on-response="_handleResponse"
51       debounce-duration="300"
52     >
53   </iron-ajax>
54 </template>
55
56 <script>
57   class MyView1 extends Polymer.Element {
58     static get is() { return 'my-view1'; }
59
60     static get properties(){
61       return{
62         data : {
63           type : Object,
64           notify : true,
65         }
66       }
67     }
68     _handleResponse(e){
69       this.data = e.detail.response
70     }
71   }
72
73   window.customElements.define(MyView1.is, MyView1);
74 </script>
75 </dom-module>
```

## Output program

