

ACT



Mata Praktikum : 2BGGR181630K - GOLANG FOR BEGINNER

Kelas : 2IA20

Praktikum ke- : 5

Tanggal : 31 Maret 2022

Materi : golang

NPM : 50420900

Nama : Muhammad Reza Hidayat

Ketua Asisten : Abadi Suryo

Nama Asisten :

Paraf Asisten :

Jumlah Lembar :

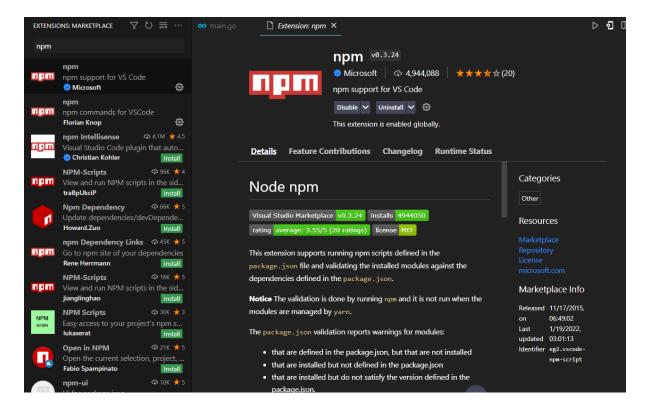


LABORATORIUM TEKNIK INFORMATIKA UNIVERSITAS GUNADARMA 2021

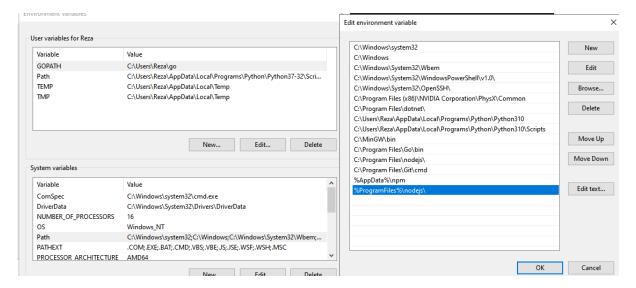
1. Jelaskan instalasi Polymer versi 2.0 dengan menggunakan bower (Poin : 30) Jawab:

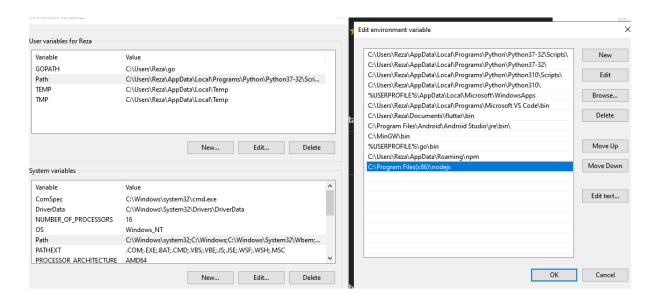
Sebelum menginstall Polymer dengan menggunakan bower dibutuhkan NodeJS dan git yang dihubungkan untuk proses installasi. Jadi disarankan untuk menginstalasi NodeJs dan git terlebih dahulu.

Download NodeJS disini https://nodejs.org/en/download/ (Harap Sesuaikan dengan OS) Download Git disini https://git-scm.com/download/ (Harap Sesuaikan dengan OS) Untuk di Visual Studio Code perlu menginstall extensions dibawah ini



Jika sudah install node js dan git nyam aka tinggal masuk ke enviormen variable dan tambah kan file node js nya





Jika sudah menginstall maka kita bisa menginstall Polymer versi 2.0 dengan menggunakan bower.

Tahap Pertama yaitu:

- Membuat Folder Baru dengan "Pert 5"
- Membuka Visual Studio Code dan klik CTRL + `
- Lalu Install bower (mengetikkan pada terminal VSCODE "npm install -g bower") bisa dilihat

dibawah ini

```
PROBLEMS
          OUTPUT
                  DEBUG CONSOLE
                                                                          TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5> npm ins
tall -g bower
added 1 package, and audited 2 packages in 11s
found 0 vulnerabilities
npm notice
npm notice New minor version of npm available! 8.5.0 -> 8.6.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.6.0
npm notice Run npm install -g npm@8.6.0 to update!
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5>
```

Tahap Kedua yaitu:

- Menginstall polymer dengan mengetikkan ("npm install -g polymer-cli")

```
nackage main
                                                                          PROBLEMS
                  DEBUG CONSOLE
         OUTPUT
                                TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5> npm ins
tall -g polymer-cli
added 1281 packages, changed 4 packages, and audited 1286 packages in 25s
88 vulnerabilities (4 low, 19 moderate, 51 high, 14 critical)
To address issues that do not require attention, run:
 nom audit fix
To address all issues possible (including breaking changes), run:
 npm audit fix --force
Some issues need review, and may require choosing
a different dependency.
Run `npm audit` for details.
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5>
```

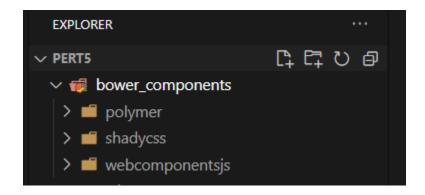
Tahap Ketiga yaitu:

- Menginstall Polymer versi 2.0.0 dengan cara mengetikkan seperti ini

"bower install Polymer/polymer#^2.0.0"

```
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5> bower i
 nstall Polymer/polymer#^2.0.0
 bower not-cached
                                               https://github.com/Polymer/polymer.git#^2.0.0
https://github.com/Polymer/polymer.git#^2.0.0
https://github.com/Polymer/polymer/archive/v2.8.0.tar.gz
 bower resolve
                                               polymer#^2.0.0 archive.tar.gz for:C:\Users\Reza\AppData\Local\Temp\DESKTOP-FQF2UA1-Reza\bower\6ac9fb6e69374501bea
bower invalid—meta for:C:\Users\Reza\AppData\Local\Temp\DESKTOP-FQF2UA1-Reza\bower\6ac9fb6e69374501bea
0bcad9749c0a7-15076-B8kde3\bower.json
bower invalid—meta The "main" field has to contain only 1 file per filetype; found multiple .html file
s: ["lib/elements/array-selector.html","lib/elements/custom-style.html","lib/elements/dom-bind.html","lib/elements/dom-if.html","lib/elements/dom-if.html","lib/elements/dom-if.html","lib/elements/dom-if.html","lib/legacy/clas
s.html","lib/legacy/legacy-element-mixin.html","lib/legacy/mutable-data-behavior.html","lib/mixins/dis-mixin
.html","lib/mixins/disable-upgrade-mixin.html","lib/mixins/element-mixin.html","lib/mixins/gesture-even
t-listeners.html","lib/mixins/mutable-data.html","lib/mixins/properties-changed.html","lib/mixins/proper
tries-mixin.html","lib/mixins/property-accessors.html","lib/mixins/property-effects.html","lib/mixins/s
trict-binding-parser.html","lib/mixins/template-stamp.html","lib/utils/debounce.html","lib/utils/fastene
d-nodes-observer.html","lib/utils/flush.html","lib/utils/gestures.html","lib/utils/html-tag.html","lib/
utils/import-href.html","lib/utils/flush.html","lib/utils/gestures.html","lib/utils/resolve-url.html","lib/utils/settings.html","lib/utils/style-gather.html","lib/utils/templatize
.html","lib/utils/unresolved.html","ploymer-element.html","ploymer.html",
bower resolved
bower resolve
https://github.com/webcomponents/webcomponentsjs.git#^v1.1.0
 bower invalid-meta
 bower resolve
                                                \verb|https://github.com/webcomponents/webcomponentsjs.git#^v1.1.0|\\
                                               https://github.com/webcomponents/shadycss.git#^v1.1.0
https://github.com/webcomponents/shadycss.git#^v1.1.1.0
 bower not-cached
  bower resolve
 bower download
                                                https://github.com/webcomponents/shadycss/archive/v1.9.1.tar.gz
                                               https://github.com/webcomponents/webcomponentsjs/archive/v1.3.3.tar.gz
shadycss#^v1.1.0 archive.tar.gz
 bower download
  bower extract
                                               https://github.com/webcomponents/shadycss.git#1.9.1
webcomponentsjs#^v1.1.0 received 0.8MB
webcomponentsjs#^v1.1.0 received 0.8MB
 bower resolved
 bower progress
  bower progress
                                                webcomponentsjs#^v1.1.0 archive.tar.gz
 bower extract
                                               https://github.com/webcomponents/webcomponentsjs.git#1.3.3 polymer#2.8.0
 bower resolved
 bower install
                                                shadycss#1.9.1
 bower install
                                                webcomponentsis#1.3.3
 polymer#2.8.0 bower_components\polymer
          shadycss#1.9.1
       - webcomponentsjs#1.3.3
 shadycss#1.9.1 bower components\shadycss
 webcomponentsjs#1.3.3 bower_components\webcomponentsjs
```

Sampe file nya kaya gini



2. Jelaskan instalasi Polymer Starter kit dengan menggunakan Polymer versi 2.0 (Poin: 30)

Jawab:

Setelah semua berhasil di install, Lalu kita mengetikkan "polymer init" untuk mengunduh template

polymer yang akan digunakan. Let's Go!

```
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5> polymer
 'uname' is not recognized as an internal or external command,
operable program or batch file.
  Which starter template would you like to use? (Use arrow keys)
> polymer-3-element - A simple Polymer 3.0 element template
  polymer-3-application - A simple Polymer 3.0 application
polymer-3-starter-kit - A Polymer 3.x starter application template, with navigation and "PRPL patter
  'loading
  polymer-2-element - A simple Polymer 2.0 element template
  polymer-2-application - A simple Polymer 2.0 application polymer-2-starter-kit - A Polymer 2.x starter application template, with navigation and "PRPL patter
   loading
 shop - The "Shop" Progressive Web App demo (node:6632) Warning: Accessing non-existent property 'cat' of module exports inside circular dependency
(Use `node --trace-warnings ...` to show where the warning was created)
(node:6632) Warning: Accessing non-existent property 'cd' of module exports inside circular dependency (node:6632) Warning: Accessing non-existent property 'chmod' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'cp' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'dirs' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'pushd' of module exports inside circular dependency (node:6632) Warning: Accessing non-existent property 'popd' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'echo' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'tempdir' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'pwd' of module exports inside circular dependency(node:6632) Warning: Accessing non-existent property 'exec' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'ls' of module exports inside circular dependency (node:6632) Warning: Accessing non-existent property 'find' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'grep' of module exports inside circular dependency (node:6632) Warning: Accessing non-existent property 'head' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'ln' of module exports inside circular dependency (node:6632) Warning: Accessing non-existent property 'mkdir' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'rm' of module exports inside circular dependency (node:6632) Warning: Accessing non-existent property 'mv' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'sed' of module exports inside circular dependency(node:6632) Warning: Accessing non-existent property 'set' of module exports inside circular dependency(node:6632) Warning: Accessing non-existent property 'sort' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property 'tail' of module exports inside circular dependency
                                                                          'test' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property
(node:6632) Warning: Accessing non-existent property
                                                                          'to' of module exports inside circular dependency
(node:6632) Warning: Accessing non-existent property
                                                                          'toEnd' of module exports inside circular dependency
 (node:6632) Warning: Accessing non-existent property 'touch' of module exports inside circular dependency
 (node:6632) Warning: Accessing non-existent property
                                                                          'uniq' of module exports inside circular dependency
```

```
grep' of module exports inside circular dependency
 node:5468) Warning: Accessing non-existent property
(node:5468) Warning: Accessing non-existent property 'head' of module exports inside circular dependency
                                                      'ln' of module exports inside circular dependency
(node:5468) Warning: Accessing non-existent property
(node:5468) Warning: Accessing non-existent property 'mkdir' of module exports inside circular dependency
(node:5468) Warning: Accessing non-existent property
                                                       'rm' of module exports inside circular dependency
(node:5468) Warning: Accessing non-existent property 'mv' of module exports inside circular dependency
(node:5468) Warning: Accessing non-existent property 'sed' of module exports inside circular dependency
(node:5468) Warning: Accessing non-existent property 'set' of module exports inside circular dependency
(node:5468) Warning: Accessing non-existent property
                                                      'sort' of module exports inside circular dependency
 Which starter template would you like to use?
 polymer-3-element - A simple Polymer 3.0 element template
 polymer-3-application - A simple Polymer 3.0 application
 polymer-3-starter-kit - A Polymer 3.x starter application template, with navigation and "PRPL pattern" loading
 polymer-2-element - A simple Polymer 2.0 element template
 polymer-2-application - A simple Polymer 2.0 application polymer-2-starter-kit - A Polymer 2.x starter application template, with navigation and "PRPL pattern" loading
 shop - The "Shop" Progressive Web App demo
```

Seperti gambar di atas jika kita sudah mengetikkan **"polymer init"** Maka akan muncul tampilan untuk

memilih template, Pada materi ini Polymer yang digunakan adalah versi 2 dan template yang akan

digunakan adalah **Polymer Starter Kit.** Lalu jika kita sudah memilih **Polymer Starter Kit,** maka akan

otomatis men-download template tersebut.

```
npm Model deprecated samsm@1.3.0: This package has been deprecated in favour of @sinonjs/samsam nor in the package of the package has been deprecated in favour of @sinonjs/samsam nor in the package has been deprecated in models. All: Package no longer supported. Contact support@pasi.com for more info.

npm Model deprecated normodels. 8.1: Package no longer supported. Contact support@pasi.com for more info.

npm Model deprecated source-map-resolve@8.15.1 See https://github.com/yigithub.com/yigithub.com/reparted pasintained

npm Model deprecated source-map-resolve@8.15.1 See https://github.com/reparted reparted pasintained

npm Model deprecated source-map-resolve@8.15.1 See https://github.com/reparted pasintained

npm Model deprecated with security patches. If you are mable to upgrade at this time, paid support policy (hapi.im/support). Please upgrade to the latest version to get the be

st features, bug fixes, and security patches. If you are mable to upgrade at this time, paid support savailable for older versions (hapi.im/commercial).

npm Model deprecated uni@8.0.3: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://github.com/request/request/ssues/3142

npm Model deprecated request@8.85.0: request has been deprecated, see https://github.com/request/request/ssues/3142

npm Model deprecated request@8.85.0: request has been deprecated, see https://github.com/request/request/ssues/3142

npm Model deprecated indicates and the see upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://github.com/request/request/ssues/3142

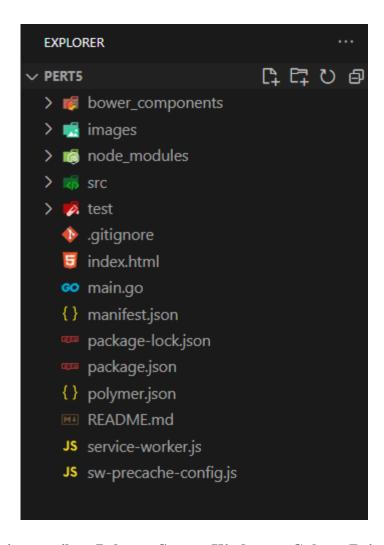
npm Model deprecated request@8.25.1: please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://github.com/request/request/ssues/3142

npm Model deprecated uni@8.2.1: please upgrade to version 7 or higher. Older version shown to
```

Secara otomatis akan men-download file dan package ke dalam directory **Pert 5.** Seluruh komponen

web yang telah di unduh akan tersimpan dalam direktori bower_components. Berikut dibawah ini sudah

tersimpan dalam directory Pert 5.



3. Jalankan dan integrasikan Polymer Starter Kit dengan Golang (Poin : 40) Jawab:

Untuk Menjalankan dan mengintegrasikan **Polymer Stater Kit,** Kita harus membuat file **main.go**

terlebih dahulu seperti gambar dibawah ini.

```
main.go

package main

import (
    "fmt"
    "log"
    "net/http"

)

func main() {
    PORT := 5001
    http.Handle("/", http.FileServer(http.Dir("polymer")))
    fmt.Printf("Server Running on Port %d", PORT)
    log.Fatal(http.ListenAndServe(fmt.Sprintf(":%d", PORT), nil))

}
```

Lalu ketik **go build** dan jalan an exe nya mengunakan perintah ./pert_5.exe

```
PS F:\GUNDAR\Semester 3\LEPKOM\GOLANG\Pert 5> go build
PS F:\GUNDAR\Semester 3\LEPKOM\GOLANG\Pert 5> ./Pert_5.exe
Server Running on Port 5001

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\PERTEMUAN - (5)\ACT\1) REZA\pert5> go run "c:\Baru\SEMESTER 4\13) 2BGGR181630K - GOLANG FOR BEGINNER\
PERTEMUAN - (5)\ACT\1) REZA\pert5\main.go"
```

Lalu ketikan polymer serve

```
ORLONG Windows Components

| Section | Section
```

Jika muncul seperti di atas tinggal buka http://127.0.0.1:8081

Maka akan muncul seperti

