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

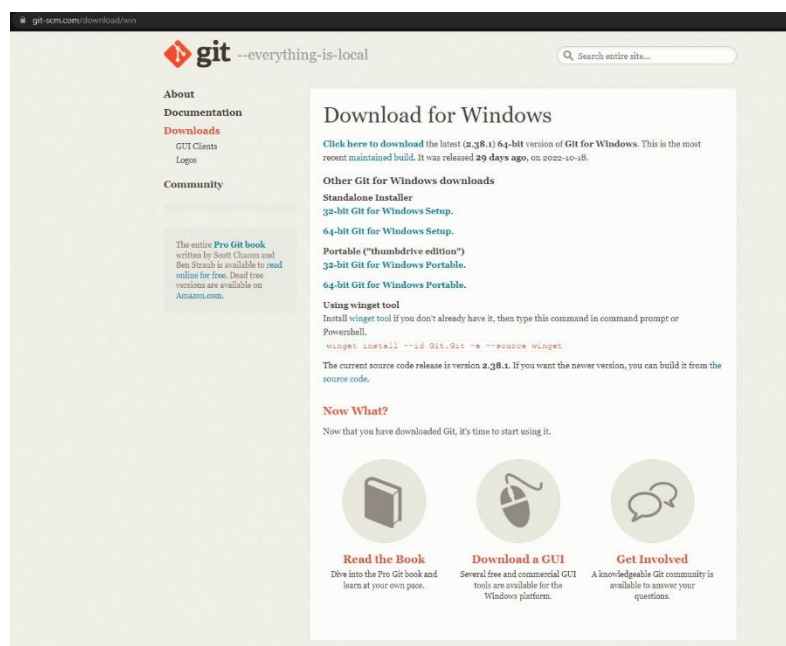
Jawab :

Sebelum menginstall Polymer dengan bower dibutuhkan NodeJS dan Git

Download NodeJS :



Download Git :



Check NodeJS dan Git :

```
C:\Users\Jordy Khienata>node -v
v16.17.1
```

```
C:\Users\Jordy Khienata>git -v
git version 2.37.3.windows.1
```

Download NPM :

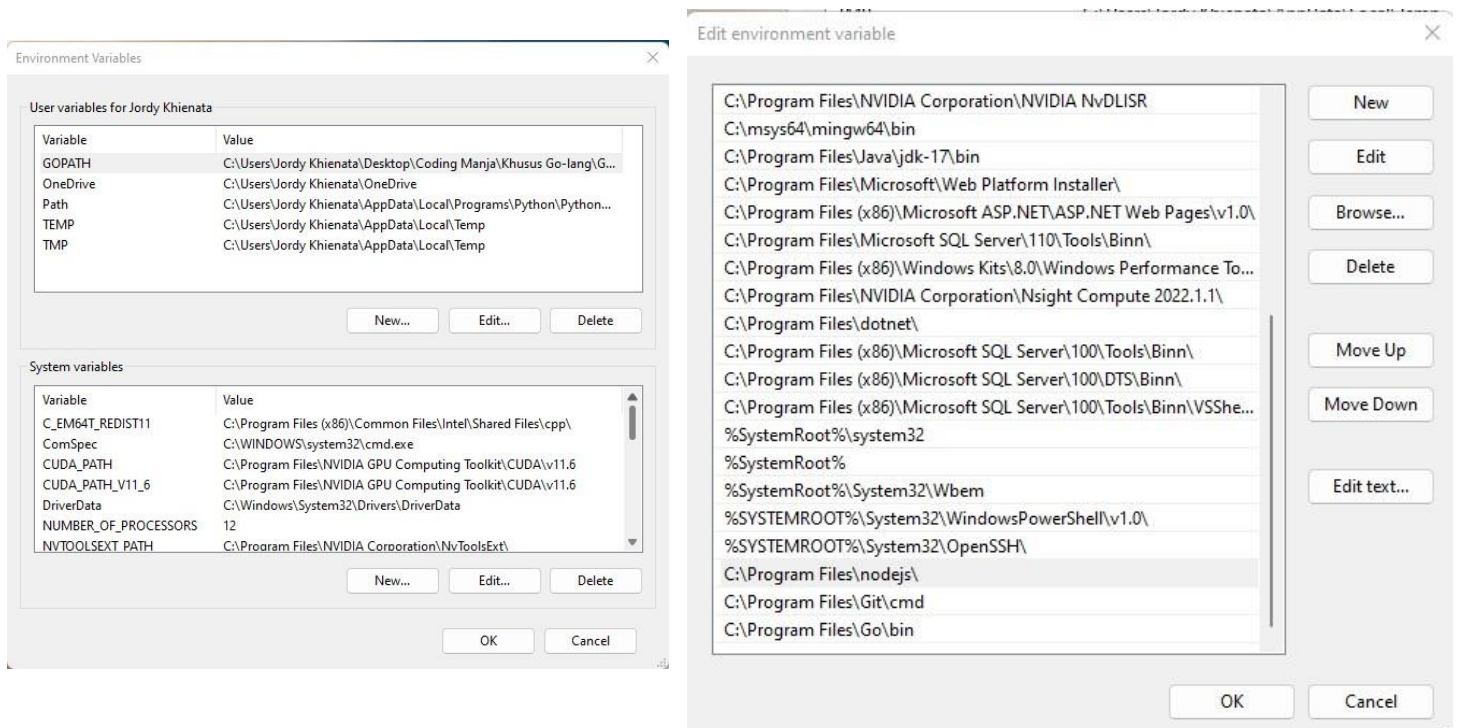
```
Jordy Khienata@LAPTOP-CTUHR556 MINGW64 ~/Desktop
$ npm install -g npm

changed 15 packages in 7s

14 packages are looking for funding
  run 'npm fund' for details

Jordy Khienata@LAPTOP-CTUHR556 MINGW64 ~/Desktop
$
```

Jika sudah install NodeJS, Git, dan NPM. Jika sudah menginstall ketiganya tinggal menambahkan file NodeJS di environment variable.



Jika sudah menambahkan file NodeJS, lalu kita baru menginstall polymer 2.0 dengan bower dengan menggunakan Visual Studio Code.

Pilih “New Terminal” lalu ketik “**npm install -g bower**”

```
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> npm install -g bower
added 1 package, and audited 2 packages in 16s
found 0 vulnerabilities
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> 
```

Setelah menginstall Bower, lalu kita menginstall Polymer dengan memasukkan “**npm install -g polymer-cli**”

```
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> npm install -g polymer-cli
added 1285 packages, and audited 1286 packages in 1m
100 vulnerabilities (4 low, 25 moderate, 45 high, 26 critical)
To address issues that do not require attention, run:
  npm 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:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> 
```

Setelah menginstall Polymer maka kita lanjutkan dengan menginstall Polymer 2.0.0

Dengan memasukkan “**bower install Polymer/polymer#^2.0.0**”

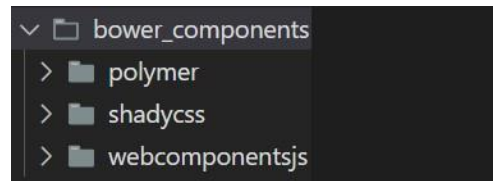
```
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> bower install Polymer/polymer#^2.0.0
bower polymer#^2.0.0      not-cached https://github.com/Polymer/polymer.git#^2.0.0
bower polymer#^2.0.0      resolve https://github.com/Polymer/polymer.git#^2.0.0
bower polymer#^2.0.0      download https://github.com/Polymer/polymer/archive/v2.8.0.tar.gz
bower polymer#^2.0.0      extract archive.tar.gz
bower polymer#^2.0.0      invalid-meta for:C:\Users\JORDYK~1\AppData\Local\Temp\LAPTOP-CTUHR556-Jordy Khienata\bower\6ac9fb6e69374501bea0bca
d9749c0a7-30376-Z3XCmb\bower.json
bower polymer#^2.0.0      invalid-meta The "main" field has to contain only 1 file per filetype; found multiple .html files: ["lib/elements/
array-selector.html", "lib/elements/custom-style.html", "lib/elements/dom-bind.html", "lib/elements/dom-if.html", "lib/elements/dom-module.html"
, "lib/elements/dom-repeat.html", "lib/legacy/class.html", "lib/legacy/legacy-element-mixin.html", "lib/legacy/mutable-data-behavior.html", "lib/
bower webcomponentsjs#^v1.1.0      download https://github.com/webcomponents/webcomponentsjs/archive/v1.3.3.tar.gz
bower shadycss#^v1.1.0      download https://github.com/webcomponents/shadycss/archive/v1.9.1.tar.gz
bower webcomponentsjs#^v1.1.0      extract archive.tar.gz
bower shadycss#^v1.1.0      extract archive.tar.gz
bower webcomponentsjs#^v1.1.0      resolved https://github.com/webcomponents/webcomponentsjs.git#1.3.3
bower shadycss#^v1.1.0      resolved https://github.com/webcomponents/shadycss.git#1.9.1
bower polymer#^2.0.0      install polymer#2.8.0
bower webcomponentsjs#^v1.1.0      install webcomponentsjs#1.3.3
bower shadycss#^v1.1.0      install shadycss#1.9.1

polymer#2.8.0 bower_components\polymer
├─ shadycss#1.9.1
└─ webcomponentsjs#1.3.3

webcomponentsjs#1.3.3 bower_components\webcomponentsjs

shadycss#1.9.1 bower_components\shadycss
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> 
```


Ketika sudah selesai, maka akan muncul :



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

Jawab :

Setelah semua selesai diinstal, kita mengetik “polymer init” untuk memilih / mengambil template.

```
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> polymer init
? 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 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 (node:27844) Warning: Accessing non-existent property 'cat' of module exports inside circular dependency
(Use `node --trace-warnings ...` to show where the warning was created)
(node:27844) Warning: Accessing non-existent property 'cd' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'chmod' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'cp' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'dirs' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'pushd' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'popd' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'echo' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'tempdir' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'pwd' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'exec' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'ls' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'find' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'grep' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'head' of module exports inside circular dependency
```

Setelah keluar, pilih polymer-2-starter-kit untuk materi kali ini :

```
(node:27844) Warning: Accessing non-existent property 'ln' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'mkdir' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'rm' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'mv' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'sed' of module exports inside circular dependency
(node:27844) Warning: Accessing non-existent property 'set' of module exports inside circular dependency
(node:27844) 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
```

Setelah memilih template polymer-2-starter-kit, maka mendownload secara otomatis :

```
I'm all done. Running npm install && bower install for you to install the required dependencies. If this fails, try running the command your self.

npm WARN config cache-min This option has been deprecated in favor of '--prefer-offline'.
npm WARN deprecated circular-json@0.3.3: CircularJSON is in maintenance only, flattened is its successor.

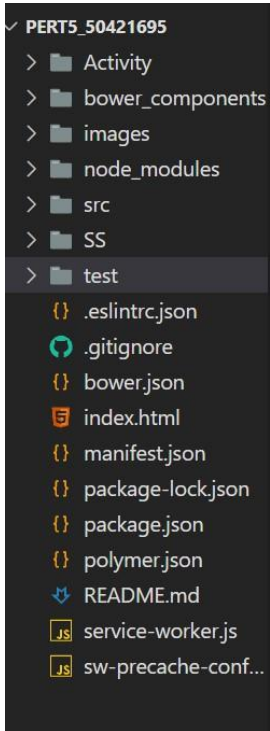
added 151 packages, and audited 152 packages in 15s

9 packages are looking for funding
  run 'npm fund' for details

4 vulnerabilities (2 moderate, 2 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force
```



Ini akan muncul jika semua sudah selesai dijalankan.

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

Jawab :

Buat file main.go untuk menjalankan dan mengintegrasikan Polymer Starter Kit dan masukkan codingan :

```
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 buat go mod, go build, dan jalankan codingan :

```
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> go mod init PERT5_50421695
go: creating new go.mod: module PERT5_50421695
go: to add module requirements and sums:
    go mod tidy
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> go build
```

```
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> go build
PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> ./PERT5_50421695
Server Running on Port 5001
```

Setelah selesai, ketik “polymer serve” di terminal

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Jordy Khienata\Desktop\Lepkom Golang\Pert5_50421695> polymer serve
(node:26724) [DEP0111] DeprecationWarning: Access to process.binding('http_parser') is deprecated.
(Use `node --trace-deprecation ...` to show where the warning was created)
info: Files in this directory are available under the following URLs
      applications: http://[::1]:8081
      reusable components: http://[::1]:8081/components/polymer-starter-kit/


```

Jika sudah keluar di terminal, lalu pilih https yang keluar pada terminal lalu jalankan pada browser masing-masing

