

BEGINNER GOLANG
ACTIVITY PERTEMUAN 5
(POLYMER STARTER KIT PADA GOLANG)
LEMBAR JAWABAN

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

• Install Polymer dengan Bower:

```
npm@9.5.0 C:\Program Files\nodejs\node_modules\npm
PS D:\Universitas Gunadama\Semester 4\LEPKOM Golang Beginner\PERTEMUAN 5> npm install -g bower

added 1 package in 5s

npm notice
npm notice New minor version of npm available! 9.5.0 -> 9.6.7
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.7
npm notice Run npm install -g npm@9.6.7 to update!
npm notice
PS D:\Universitas Gunadama\Semester 4\LEPKOM Golang Beginner\PERTEMUAN 5>
```

• Install Polymer CLI dengan Bower:

```
PS D:\Universitas Gunadama\Semester 4\LEPKOM Golang Beginner\PERTEMUAN 5> npm install -g polymer cli
npm WARN deprecated sntp@0.2.4: This module moved to @hapi/sntp. Please make sure to switch over as this distribution is no longer supported and may contain bugs and critical security issues.
npm WARN deprecated hoek@0.9.1: This version has been deprecated in accordance with the hapi support policy (hapi.im/support). Please upgrade to the latest version to get the best features, bug fixes, and security patches. If you are unable to upgrade at this time, paid support is available for older versions (hapi.im/commercial).
npm WARN deprecated natives@1.1.6: This module relies on Node.js's internals and will break at some point. Do not use it, and update to graceful-fs@4.x.
npm WARN deprecated cryptiles@0.2.2: This version has been deprecated in accordance with the hapi support policy (hapi.im/support). Please upgrade to the latest version to get the best features, bug fixes, and security patches. If you are unable to upgrade at this time, paid support is available for older versions (hapi.im/commercial).
npm WARN deprecated boom@0.4.2: This version has been deprecated in accordance with the hapi support policy (hapi.im/support). Please upgrade to the latest version to get the best features, bug fixes, and security patches. If you are unable to upgrade at this time, paid support is available for older versions (hapi.im/commercial).
npm WARN deprecated node-uuid@1.4.8: Use uuid module instead
npm WARN deprecated request@2.40.0: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated mkdirp@0.3.5: Legacy versions of mkdirp are no longer supported. Please update to mkdirp 1.x. (Note that the API surface has changed to use Promises in 1.x.)
npm WARN deprecated hawk@1.1.1: This module moved to @hapi/hawk. Please make sure to switch over as this distribution is no longer supported and may contain bugs and critical security issues.
npm WARN deprecated jade@0.28.2: Jade has been renamed to pug, please install the latest version of pug instead of jade

added 59 packages in 9s

2 packages are looking for funding
  run `npm fund` for details
PS D:\Universitas Gunadama\Semester 4\LEPKOM Golang Beginner\PERTEMUAN 5>
```

• Install Polymer versi 2.0

```
Ali Akbar Said@LAPTOP-D1QU05UO MINGW64 /d/Universitas Gunadama/Semester 4/LEPKOM Golang Beginner/PERTEMUAN 5
$ bower install Polymer/polymer#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\ALIAKB~1\AppData\Local\Temp\LAPTOP-D1QU05UO-Ali Akbar Said\bower\6ac9fb6e69374501bea0bcad9749c0a7-16016-nnz63J\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/legacy/polymer-fn.html", "lib/legacy/polymer.dom.html", "lib/legacy/templatizer-behavior.html", "lib/mixins/dir-mixin.html", "lib/mixins/disable-upgrade-mixin.html", "lib/mixins/element-mixin.html", "lib/mixins/gesture-event-listeners.html", "lib/mixins/mutable-data.html", "lib/mixins/properties-changed.html", "lib/mixins/properties-mixin.html", "lib/mixins/property-accessors.html", "lib/mixins/property-effects.html", "lib/mixins/strict-binding-parser.html", "lib/mixins/template-stamp.html", "lib/utls/array-splice.html", "lib/utls/async.html", "lib/utls/boot.html", "lib/utls/case-map.html", "lib/utls/debounce.html", "lib/utls/flattened-nodes-observer.html", "lib/utls/flush.html", "lib/utls/gestures.html", "lib/utls/html-tag.html", "lib/utls/import-href.html", "lib/utls/mixin.html", "lib/utls/path.html", "lib/utls/render-status.html", "lib/utls/resolve-url.html", "lib/utls/settings.html", "lib/utls/style-gather.html", "lib/utls/templatize.html", "lib/utls/unresolved.html", "polymer-element.html", "polymer.html"]
bower polymer#2.0.0 resolved https://github.com/Polymer/polymer.git#2.8.0
bower shadycss#v1.1.0 not-cached https://github.com/webcomponents/shadycss.git#v1.1.0
bower shadycss#v1.1.0 resolve https://github.com/webcomponents/shadycss.git#v1.1.0
bower webcomponentsjs#v1.1.0 not-cached https://github.com/webcomponents/webcomponentsjs.git#v1.1.0
bower webcomponentsjs#v1.1.0 resolve https://github.com/webcomponents/webcomponentsjs.git#v1.1.0
bower shadycss#v1.1.0 download https://github.com/webcomponents/shadycss/archive/v1.9.1.tar.gz
bower webcomponentsjs#v1.1.0 download https://github.com/webcomponents/webcomponentsjs/archive/v1.3.3.tar.gz
bower shadycss#v1.1.0 extract archive.tar.gz
bower shadycss#v1.1.0 resolved https://github.com/webcomponents/shadycss.git#1.9.1
bower webcomponentsjs#v1.1.0 extract archive.tar.gz
bower webcomponentsjs#v1.1.0 resolved https://github.com/webcomponents/webcomponentsjs.git#1.3.3
bower polymer#2.0.0 install polymer#2.8.0
bower shadycss#v1.1.0 install shadycss#1.9.1
bower webcomponentsjs#v1.1.0 install webcomponentsjs#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

Ali Akbar Said@LAPTOP-D1QU05UO MINGW64 /d/Universitas Gunadama/Semester 4/LEPKOM Golang Beginner/PERTEMUAN 5
```

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

Penjelasan:

- Setelah semua berhasil di install, Lalu kita mengetikkan “polymer init” untuk mengunduh Template polymer yang akan digunakan.

- 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 mendownload template tersebut.
- 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.

Screenshot:

```
Ali Akbar Said@LAPTOP-D1QU0SU0 MINGW64 /d/Universitas Gunadama/Semester 4/LEPKOM Golang Beginner/PERTEMUAN 5
$ polymer init
? Which starter template would you like to use?
  1) polymer-3-element - A simple Polymer 3.0 element template
  2) polymer-3-application - A simple Polymer 3.0 application
  3) polymer-3-starter-kit - A Polymer 3.x starter application template, with navigation and "PRPL pattern" loading
  4) polymer-2-element - A simple Polymer 2.0 element template
  5) polymer-2-application - A simple Polymer 2.0 application
  6) polymer-2-starter-kit - A Polymer 2.x starter application template, with navigation and "PRPL pattern" loading
  7) shop - The "Shop" Progressive Web App demo
Answer: (node:27188) Warning: Accessing non-existent property 'cat' of module exports inside circular dependency
(Use `node --trace-warnings ...` to show where the warning was created)
(node:27188) Warning: Accessing non-existent property 'cd' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'chmod' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'cp' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'dirs' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'pushd' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'popd' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'echo' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'tempdir' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'pwd' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'exec' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'ls' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'find' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'grep' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'head' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'ln' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'mkdir' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'rm' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'mv' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'sed' of module exports inside circular dependency
(node:27188) Warning: Accessing non-existent property 'set' of module exports inside circular dependency
? Which starter template would you like to use? polymer-init-polymer-2-starter-kit:app
info: Running template polymer-2-starter-kit...
info: Finding latest ^3.0.0 release of Polymer/polymer-starter-kit

I'm all done. Running npm install && bower install for you to install the required dependencies. If this fails, try running the command yourself.
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 39s

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

4 vulnerabilities (3 moderate, 1 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

Run `npm audit` for details.
bower app-layout#^2.0.0 not-cached https://github.com/PolymerElements/app-layout.git#^2.0.0
bower app-layout#^2.0.0 resolve https://github.com/PolymerElements/app-layout.git#^2.0.0
bower app-route#^2.0.0 not-cached https://github.com/PolymerElements/app-route.git#^2.0.0
bower app-route#^2.0.0 resolve https://github.com/PolymerElements/app-route.git#^2.0.0
bower iron-media-query#^2.0.0 not-cached https://github.com/PolymerElements/iron-media-query.git#^2.0.0
bower iron-media-query#^2.0.0 resolve https://github.com/PolymerElements/iron-media-query.git#^2.0.0
bower iron-pages#^2.0.0 not-cached https://github.com/PolymerElements/iron-pages.git#^2.0.0
bower iron-pages#^2.0.0 resolve https://github.com/PolymerElements/iron-pages.git#^2.0.0
bower iron-flex-layout#^2.0.0 not-cached https://github.com/PolymerElements/iron-flex-layout.git#^2.0.0
bower iron-flex-layout#^2.0.0 resolve https://github.com/PolymerElements/iron-flex-layout.git#^2.0.0
bower iron-selector#^2.0.0 not-cached https://github.com/PolymerElements/iron-selector.git#^2.0.0
bower iron-selector#^2.0.0 resolve https://github.com/PolymerElements/iron-selector.git#^2.0.0
bower iron-iconset-svg#^2.0.0 not-cached https://github.com/PolymerElements/iron-iconset-svg.git#^2.0.0
bower iron-iconset-svg#^2.0.0 resolve https://github.com/PolymerElements/iron-iconset-svg.git#^2.0.0
bower paper-icon-button#^2.0.0 not-cached https://github.com/PolymerElements/paper-icon-button.git#^2.0.0
bower paper-icon-button#^2.0.0 resolve https://github.com/PolymerElements/paper-icon-button.git#^2.0.0
bower web-component-tester#^6.0.0 not-cached https://github.com/Polymer/web-component-tester.git#^6.0.0
bower web-component-tester#^6.0.0 resolve https://github.com/Polymer/web-component-tester.git#^6.0.0
bower app-layout#^2.0.0 download https://github.com/PolymerElements/app-layout/archive/v2.1.1.tar.gz
bower iron-pages#^2.0.0 download https://github.com/PolymerElements/iron-pages/archive/v2.1.1.tar.gz
bower iron-media-query#^2.0.0 download https://github.com/PolymerElements/iron-media-query/archive/v2.1.0.tar.gz
bower iron-flex-layout#^2.0.0 download https://github.com/PolymerElements/iron-flex-layout/archive/v2.0.3.tar.gz
bower app-route#^2.0.0 download https://github.com/PolymerElements/app-route/archive/v2.1.2.tar.gz
```

```
iron-media-query#2.1.0 bower_components\iron-media-query
└─ polymer#2.8.0

iron-flex-layout#2.0.3 bower_components\iron-flex-layout
└─ polymer#2.8.0

app-layout#2.1.1 bower_components\app-layout
├─ iron-flex-layout#2.0.3
├─ iron-media-query#2.1.0
├─ iron-resizable-behavior#2.1.1
├─ iron-scroll-target-behavior#2.1.1
└─ polymer#2.8.0

iron-selector#2.1.0 bower_components\iron-selector
└─ polymer#2.8.0

paper-icon-button#2.2.1 bower_components\paper-icon-button
├─ iron-icon#2.1.0
├─ paper-behaviors#2.1.1
├─ paper-styles#2.1.0
└─ polymer#2.8.0

iron-iconset-svg#2.2.1 bower_components\iron-iconset-svg
├─ iron-meta#2.1.1
└─ polymer#2.8.0

iron-pages#2.1.1 bower_components\iron-pages
├─ iron-resizable-behavior#2.1.1
├─ iron-selector#2.1.0
└─ polymer#2.8.0

app-route#2.1.2 bower_components\app-route
├─ iron-location#2.2.2
└─ polymer#2.8.0

web-component-tester#6.5.1 bower_components\web-component-tester
├─ accessibility-developer-tools#2.12.0
├─ async#1.5.2
├─ chai#3.5.0
├─ accessibility-developer-tools#2.12.0
├─ async#1.5.2
├─ chai#3.5.0
├─ lodash#3.10.1
├─ mocha#3.5.3
├─ sinon-chai#2.14.0
├─ sinonjs#1.17.1
├─ stacky#1.3.2
└─ test-fixture#3.0.0

iron-scroll-target-behavior#2.1.1 bower_components\iron-scroll-target-behavior
└─ polymer#2.8.0

iron-resizable-behavior#2.1.1 bower_components\iron-resizable-behavior
└─ polymer#2.8.0

iron-icon#2.1.0 bower_components\iron-icon
├─ iron-flex-layout#2.0.3
├─ iron-meta#2.1.1
└─ polymer#2.8.0

paper-behaviors#2.1.1 bower_components\paper-behaviors
├─ iron-behaviors#2.1.1
├─ iron-checked-element-behavior#2.1.1
├─ paper-ripple#2.1.1
└─ polymer#2.8.0

paper-styles#2.1.0 bower_components\paper-styles
├─ font-roboto#1.1.0
├─ iron-flex-layout#2.0.3
└─ polymer#2.8.0

iron-meta#2.1.1 bower_components\iron-meta
└─ polymer#2.8.0

iron-location#2.2.2 bower_components\iron-location
└─ polymer#2.8.0

sinonjs#1.17.1 bower_components\sinonjs

iron-location#2.2.2 bower_components\iron-location
└─ polymer#2.8.0

sinonjs#1.17.1 bower_components\sinonjs

sinon-chai#2.14.0 bower_components\sinon-chai

lodash#3.10.1 bower_components\lodash

chai#3.5.0 bower_components\chai

test-fixture#3.0.0 bower_components\test-fixture

accessibility-developer-tools#2.12.0 bower_components\accessibility-developer-tools

stacky#1.3.2 bower_components\stacky

async#1.5.2 bower_components\async

mocha#3.5.3 bower_components\mocha

iron-behaviors#2.1.1 bower_components\iron-behaviors
├─ iron-ally-keys-behavior#2.1.1
└─ polymer#2.8.0

paper-ripple#2.1.1 bower_components\paper-ripple
├─ iron-ally-keys-behavior#2.1.1
└─ polymer#2.8.0

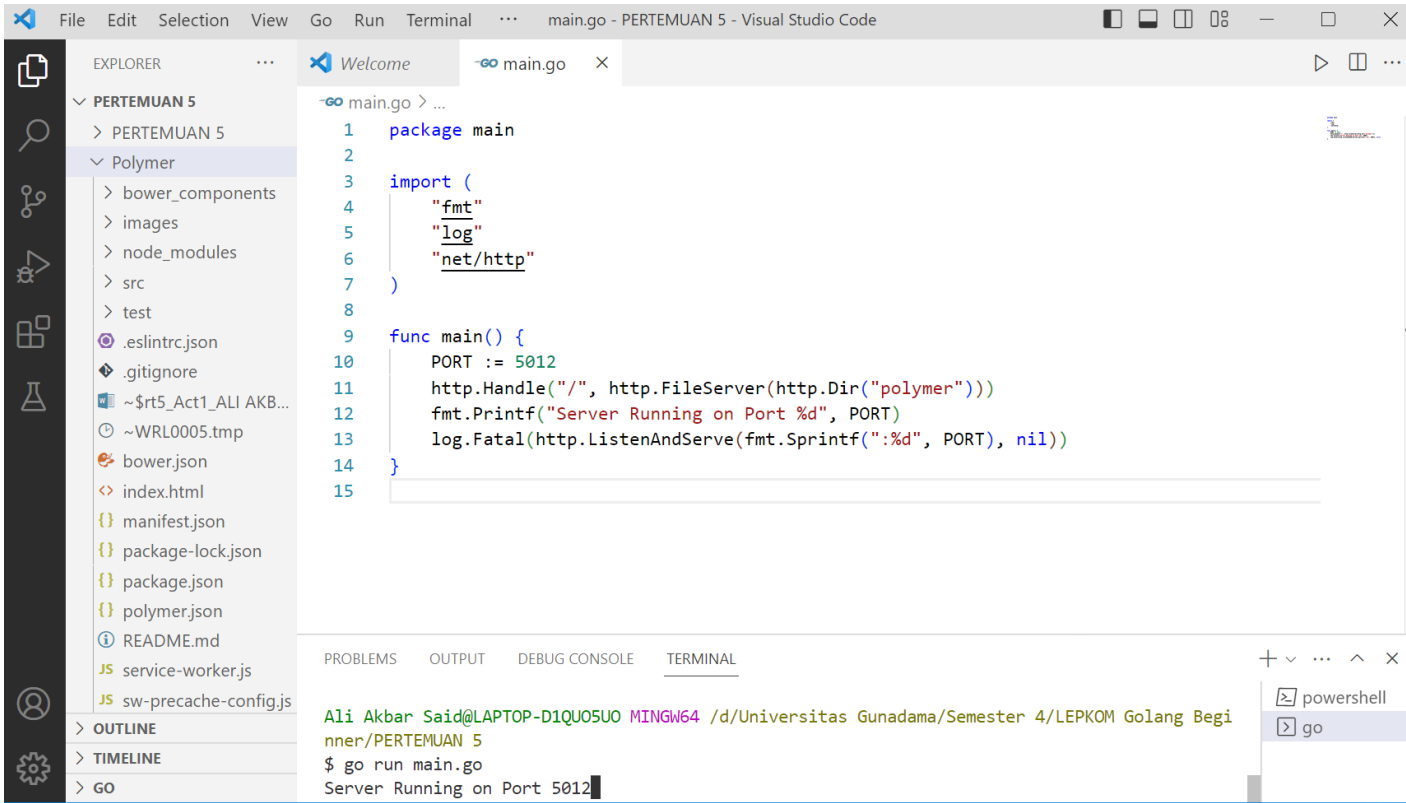
iron-checked-element-behavior#2.1.1 bower_components\iron-checked-element-behavior
├─ iron-form-element-behavior#2.1.3
├─ iron-validatable-behavior#2.1.0
└─ polymer#2.8.0

font-roboto#1.1.0 bower_components\font-roboto

iron-ally-keys-behavior#2.1.1 bower_components\iron-ally-keys-behavior
└─ polymer#2.8.0
```

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

- Satukan keseluruhan file Polymer Starter Kit ke dalam File “Polymer”
- Untuk menjalankan Polymer, buat file main.go, lalu buat code seperti ini:



- Jalankan <http://localhost:5012/> di browser:

