

2021.06.10

〈Visual Studio code 기본설정〉

VSCode 환경 설정

일단 우리는 IntelliJ 라이선스가 없어서 Ultimate 를 사용할 수 없다.
이런 경우 대안으로 사용할 수 있는 것이 VSCode에 해당한다.
물론 제일 좋은것은 Ultimate 지만
Community 버전은 기능에 제한이 걸려서 Frontend 개발시 불편함이 꽤 많다.
반면 VSCode는 무료임에도 Ultimate 보다 조금 못미치는 정도라 꽤 쓸만하다.

VSCode 다운로드

1. 구글에서 VSCode를 검색한다.
2. 자신의 환경에 맞게 VSCode를 다운로드 받는다.
3. 실행해서 확인 누른다.
4. 동의를 누른다.
5. 난 그냥 기본값을 사용
6. 다음
7. 다음
8. 설치
9. 실행
10. 색상 선택을 위해 Pick Theme! (원하는 색상 선택)
11. HTML Snippets 를 선택해서 install 한다.
12. Vue 3 Snippets 를 선택해서 install 한다.
13. JavaScript (ES6) code snippets 를 선택해서 install 한다.

vue 환경 구성

일단 Vue나 React나 Svelte 같은 최신 기능들은 대부분 ECMA 6 스펙을 따름
구닥다리로 쓰지 말고 최신형으로 쓰시다.

nodejs 설치

- 1. <https://nodejs.org/ko/download/> 에서 자신의 운영체제에 맞게 다운로드한다.
- 2. 실행
- 3. Next
- 4. 라이선스 동의 후 Next
- 5. Next
- 6. Next
- 7. Next
- 8. nodejs 일부 패키지에 C/C++ 기능이 필요한 것들이 있음
물지도 따지지 말고 그냥 필요하면 다 설치하라고 체크하고 Next
- 9. Install
- 10. 설치가 꽤 오래 걸릴 수도 있으니 커피나 한 잔 하면 좋다.
- 11. node -v 로 nodejs 설치 여부를 체크한다.
- 12. npm --version 으로 npm 설치 여부를 체크한다.

Vue.js 설치

- 1. npm install -g @vue/cli
- 2. 오류나면 npm audit fix
- 3. MAC에선 권한(permission) 없다고 하면 관리자 모드로 sudo 줘서 실행한다.

vue 프로젝트 생성

〈Vue 기본설정〉

나는 8번 부분에서 check하고 넘어갔을 때

파란화면에서 계속 오류가남

(아마 이 집 인터넷 속도 때문에 파일을 다운 받는데 너무
오래걸려서 시간초과되면서 안 깔린 것 같음) 여기서 내가
다운/설치가 다 끝나지 않았는데 강제종료 하니까 몇몇 파일들이
깨지면서 계속 오류가 난듯?)

그래서 시스템복원하고(다행히 nodejs 설치 직전으로
시스템복원 가능했음)

vue 프로젝트 생성

1. 적당한 위치를 잡는다 (HTML/CSS, JavaScript에선 javascript 폴더로 잡음)
2. vue create frontend
frontend라는 이름으로 프로젝트가 만들어짐
3. 옵션 설정을 해야함

? Please pick a preset:

Default ([Vue 2] babel, eslint)

Default (Vue 3) ([Vue 3] babel, eslint)

> Manually select features

? Check the features needed for your project:

(*) Choose Vue version

(*) Babel

() TypeScript

() Progressive Web App (PWA) Support

(*) Router

>(*) Vuex

() CSS Pre-processors

(*) Linter / Formatter

() Unit Testing

() E2E Testing

? Choose a version of Vue.js that you want to start the project with 3.x

? Use history mode for router? (Requires proper server setup for index fallback in production) Yes

? Pick a linter / formatter config: (Use arrow keys)

> ESLint with error prevention only

vue creat frontend

《 vue가 깔려있어야 쓸 수
있는 명령어

《 gitbash에서 하면 방향키
안 먹혀서 cmd에서 해야됨.

```
? Choose a version of Vue.js that you want to start the project with 3.x

? Use history mode for router? (Requires proper server setup for index fallback in production) Yes

? Pick a linter / formatter config: (Use arrow keys)
> ESLint with error prevention only
  ESLint + Airbnb config
  ESLint + Standard config
  ESLint + Prettier

? Pick additional lint features: (Press <space> to select, <a> to toggle all, <i> to invert selection)
>(*) Lint on save
  ( ) Lint and fix on commit

? Where do you prefer placing config for Babel, ESLint, etc.?
  In dedicated config files
> In package.json

? 다음 질문엔 그냥 엔터치면 된다.

그럼 뭔가 프로젝트 설정하기 위해 많은 작업이 일어난다.
```

vue 프로젝트 구동

```
cd frontend
npm run serve
```

⏪ gitbash에서 서버구동
서버구동 중지하려면
ctrl + c

There are multiple modules with names that only differ in casing.
This can lead to unexpected behavior when compiling on a filesystem with other case-semantic.

Use equal casing. Compare these module identifiers:

* D:\java_work\LectureContents\javascript\JuhyungLee\frontend\node_modules\webpack\buildin\global.js

Used by 2 module(s), i. e.

D:\java_work\LectureContents\javascript\JuhyungLee\frontend\node_modules\node-libs-browser\node_modules\punycode\punycode.js

* D:\java_work\LectureContents\javascript\juhyungLee\frontend\node_modules\webpack\buildin\global.js

Used by 4 module(s), i. e.

D:\java_work\LectureContents\javascript\juhyungLee\frontend\node_modules\webpack\buildin\global.js

<s> [webpack.Progress] 100%

App running at:

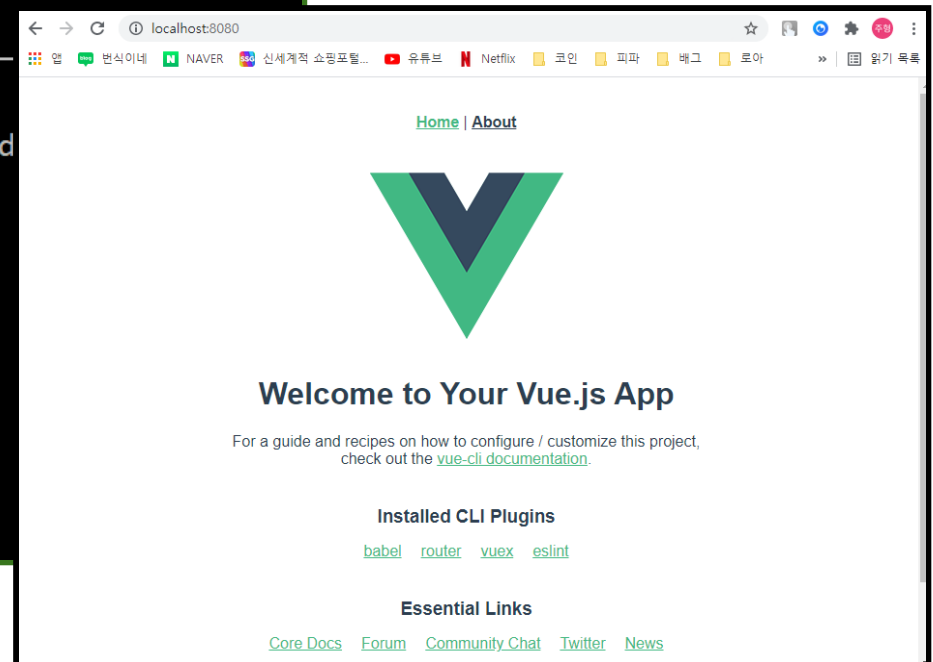
- Local: <http://localhost:8080/>
- Network: <http://192.168.0.5:8080/>

port: 8080이 default 값임

Note that the development build is not optimized.
To create a production build, run `npm run build`.

여기서

ctrl + c 누르면 서버 종료됨



node.js 깔고 tool 깔

때 오류 났었던 것들

```
Forcing web requests to allow TLS v1.2 (Required for requests to Chocolatey.org)
Getting latest version of the Chocolatey package for download.
Not using proxy.
    Downloading https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15 to C:\Users\Samuel\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
    Not using proxy.
    Extracting C:\Users\Samuel\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\Samuel\AppData\Local\Temp\chocolatey\chocoInstall
Installing Chocolatey on the local machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
    Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
        before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
    (i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
    and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.

Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when
upgrading from a version of Chocolatey less than 0.9.9.
    'Batch file could not be found' is also safe to ignore.
    'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
    Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
경고: Not setting tab completion: Profile file does not exist at
'C:\Users\Samuel\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
    first prior to using choco.
Ensuring Chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder
Chocolatey v0.10.15
Upgrading the following packages:
python;visualstudio2017-workload-vctools
By upgrading you accept licenses for the packages.
python is not installed. Installing...
Progress: Downloading python3 3.9.5... 11%
Progress: Downloading python3 3.9.5... 12%
Progress: Downloading python3 3.9.5... 12%
Progress: Downloading python3 3.9.5... 12%
Progress: Downloading python3 3.9.5... 12%
python not installed. An error occurred during installation:
Unable to read package from path 'python3.9.5.nupkg'.
python package files upgrade completed. Performing other installation steps.
The upgrade of python was NOT successful.
python not installed. An error occurred during installation:
Unable to read package from path 'python3.9.5.nupkg'.
visualstudio2017-workload-vctools is not installed. Installing...
Progress: Downloading chocolatey-visualstudio.extension 1.9.0... 100%
Progress: Downloading chocolatey-visualstudio.extension 1.9.0... 100%
Progress: Downloading chocolatey-visualstudio.extension 1.9.0... 100%
Progress: Downloading visualstudio2017-workload-vctools 1.3.3... 100%
Progress: Downloading visualstudio2017-workload-vctools 1.3.3... 100%
Progress: Downloading visualstudio2017-workload-vctools 1.3.3... 100%
Progress: Downloading vcbuildtools 14.29.30087... 100%
Progress: Downloading vcbuildtools 14.29.30087... 100%
Progress: Downloading vcbuildtools 14.29.30087... 100%
```

Path environment. Path file does not have shell variables and chocolatey will not be using it.

경고: Not setting tab completion: Profile file does not exist at

'C:\Users\Samuel\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.

Chocolatey (choco.exe) is now ready.

You can call choco from anywhere, command line or powershell by typing choco.

Run choco /? for a list of functions.

You may need to shut down and restart powershell and/or consoles

first prior to using choco.

Ensuring Chocolatey commands are on the path

Ensuring chocolatey.nupkg is in the lib folder

Chocolatey v0.10.15

Upgrading the following packages:

python;visualstudio2017-workload-vctools

By upgrading you accept licenses for the packages.

python is not installed. Installing...

Progress: Downloading python3 3.9.5... 11%

Progress: Downloading python3 3.9.5... 12%

Progress: Downloading python3 3.9.5... 12%

Progress: Downloading python3 3.9.5... 12%

python not installed. An error occurred during installation:

Unable to read package from path 'python3.3.9.5.nupkg'.

python package files upgrade completed. Performing other installation steps.

The upgrade of python was NOT successful.

python not installed. An error occurred during installation:

Unable to read package from path 'python3.3.9.5.nupkg'.

visualstudio2017-workload-vctools is not installed. Installing...

Progress: Downloading chocolatey-visualstudio.extension 1.9.0... 100%

Progress: Downloading chocolatey-visualstudio.extension 1.9.0... 100%

Progress: Downloading chocolatey-visualstudio.extension 1.9.0... 100%

Progress: Downloading visualstudio2017-workload-vctools 1.3.3... 100%

Progress: Downloading visualstudio2017-workload-vctools 1.3.3... 100%

Progress: Downloading visualstudio2017-workload-vctools 1.3.3... 100%

Progress: Downloading vcredist140 14.29.30037... 100%

Progress: Downloading vcredist140 14.29.30037... 100%

Progress: Downloading vcredist140 14.29.30037... 100%

Progress: Downloading chocolatey-core.extension 1.3.5.1... 100%

Progress: Downloading chocolatey-core.extension 1.3.5.1... 100%

Progress: Downloading chocolatey-core.extension 1.3.5.1... 100%

Progress: Downloading KB3033929 1.0.5... 100%

Progress: Downloading KB3033929 1.0.5... 100%

Progress: Downloading KB3033929 1.0.5... 100%

Progress: Downloading chocolatey-windowsupdate.extension 1.0.4... 100%

Progress: Downloading chocolatey-windowsupdate.extension 1.0.4... 100%

Progress: Downloading chocolatey-windowsupdate.extension 1.0.4... 100%

Progress: Downloading KB3035131 1.0.3... 100%

Progress: Downloading KB3035131 1.0.3... 100%

Progress: Downloading KB3035131 1.0.3... 100%

Progress: Downloading KB2919355 1.0.20160915... 100%

Progress: Downloading KB2919355 1.0.20160915... 100%

Progress: Downloading KB2919355 1.0.20160915... 100%

Progress: Downloading KB2919442 1.0.20160915... 100%

Progress: Downloading KB2919442 1.0.20160915... 100%

Progress: Downloading KB2919442 1.0.20160915... 100%

Progress: Downloading KB2999226 1.0.20181019... 31%

Progress: Downloading python3 3.9.5... 11%

Progress: Downloading python3 3.9.5... 12%

Progress: Downloading python3 3.9.5... 12%


```
Progress: Downloading visualstudio2017buildtools 15.9.36.0... 100%
Progress: Downloading visualstudio2017buildtools 15.9.36.0... 100%
Progress: Downloading visualstudio2017buildtools 15.9.36.0... 100%
Progress: Downloading dotnetfx 4.8.0.20190930... 100%
Progress: Downloading dotnetfx 4.8.0.20190930... 100%
Progress: Downloading dotnetfx 4.8.0.20190930... 100%
Progress: Downloading chocolatey-dotnetfx.extension 1.0.1... 100%
Progress: Downloading chocolatey-dotnetfx.extension 1.0.1... 100%
Progress: Downloading chocolatey-dotnetfx.extension 1.0.1... 100%

chocolatey-visualstudio.extension v1.9.0 [Approved]
chocolatey-visualstudio.extension package files upgrade completed. Performing other installation steps.
  Installed/updated chocolatey-visualstudio extensions.
  The upgrade of chocolatey-visualstudio.extension was successful.
  Software installed to 'C:\ProgramData\chocolatey\extensions\chocolatey-visualstudio'

chocolatey-core.extension v1.3.5.1 [Approved]
chocolatey-core.extension package files upgrade completed. Performing other installation steps.
  Installed/updated chocolatey-core extensions.
  The upgrade of chocolatey-core.extension was successful.
  Software installed to 'C:\ProgramData\chocolatey\extensions\chocolatey-core'

chocolatey-windowsupdate.extension v1.0.4 [Approved]
chocolatey-windowsupdate.extension package files upgrade completed. Performing other installation steps.
  Installed/updated chocolatey-windowsupdate extensions.
  The upgrade of chocolatey-windowsupdate.extension was successful.
  Software installed to 'C:\ProgramData\chocolatey\extensions\chocolatey-windowsupdate'

KB3035131 v1.0.3 [Approved]
kb3035131 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB3035131 does not apply to this operating system (Microsoft Windows 10 Home).
  The upgrade of kb3035131 was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

KB3033929 v1.0.5 [Approved]
kb3033929 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB3033929 does not apply to this operating system (Microsoft Windows 10 Home).
  The upgrade of kb3033929 was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

KB2919442 v1.0.20160915 [Approved]
kb2919442 package files upgrade completed. Performing other installation steps.
Skipping installation because this hotfix only applies to Windows 8.1 and Windows Server 2012 R2.
  The upgrade of kb2919442 was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

KB2919355 v1.0.20160915 [Approved]
kb2919355 package files upgrade completed. Performing other installation steps.
Skipping installation because this hotfix only applies to Windows 8.1 and Windows Server 2012 R2.
  The upgrade of kb2919355 was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

KB2999226 v1.0.20181019 [Approved] - Possibly broken
```



```
vcredist140 v14.29.30037 [Approved]
vcredist140 package files upgrade completed. Performing other installation steps.
Downloading vcredist140-x86
  from 'https://download.visualstudio.microsoft.com/download/pr/76a91598-ca94-410b-b874-c7fa26e400da/91c21c93a88dd82e8ae429534dacbc7a4885198361eae18d82920c714e328cf9/VC_redist.x86.exe'
Progress: 14% - Saving 1.86 MB of 13.14 MB
out waiting for the command to finish. The timeout
specified (or the default value) was '2700' seconds. Perhaps try a
higher --execution-timeout? See 'choco -h' for details.
The upgrade of vcredist140 was NOT successful.
Error while running 'C:\ProgramData\chocolatey\lib\vc\tools\chocolateyinstall.ps1'.
See log for details.

visualstudio-installer v2.0.1 [Approved]
visualstudio-installer package files upgrade completed. Performing other installation steps.
The upgrade of visualstudio-installer was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

chocolatey-dotnetfx.extension v1.0.1 [Approved]
chocolatey-dotnetfx.extension package files upgrade completed. Performing other installation steps.
Installed/updated chocolatey-dotnetfx extensions.
The upgrade of chocolatey-dotnetfx.extension was successful.
  Software installed to 'C:\ProgramData\chocolatey\extensions\chocolatey-dotnetfx'

dotnetfx v4.8.0.20190930 [Approved]
dotnetfx package files upgrade completed. Performing other installation steps.
Microsoft .NET Framework 4.8 or later is already installed.
The upgrade of dotnetfx was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

visualstudio2017buildtools v15.9.36.0 [Approved]
visualstudio2017buildtools package files upgrade completed. Performing other installation steps.
Downloading channel manifest
  from 'https://aka.ms/vs/15/release/channel'
Progress: 100% - Completed download of C:\Users\Samuel\AppData\Local\Temp\chocolatey\chocolatey-visualstudio.extension\ChannelManifest_81725945.man (69.46 KB).
Download of ChannelManifest_81725945.man (69.46 KB) completed.
Downloading catalog manifest
  from 'https://download.visualstudio.microsoft.com/download/pr/67f7bfaa-2635-43d9-ba82-26564f458881/14843feac3804c49bb9a1817e6d53f4338b0eb07ebcf09d94c4068a9971e45a7/VisualStudio.vsmn'
Progress: 3% - Saving 271.99 KB of 7.94 MB
```

Chocolatey

```
  Software install location not explicitly set, could be in package or
  default install location if installer.

visualstudio2017buildtools v15.9.36.0 [Approved]
visualstudio2017buildtools package files upgrade completed. Performing other installation steps.
Downloading channel manifest
  from 'https://aka.ms/vs/15/release/channel'
Progress: 100% - Completed download of C:\Users\Samuel\AppData\Local\Temp\chocolatey\chocolatey-visualstudio.extension\ChannelManifest_81725945.man (69.46 KB).
Download of ChannelManifest_81725945.man (69.46 KB) completed.
Downloading catalog manifest
  from 'https://download.visualstudio.microsoft.com/download/pr/67f7bfaa-2635-43d9-ba82-26564f458881/14843feac3804c49bb9a1817e6d53f4338b0eb07ebcf09d94c4068a9971e45a7/VisualStudio.vsmn'
Progress: 3% - Saving 271.99 KB of 7.94 MB
ERROR: The remote file either doesn't exist, is unauthorized, or is forbidden for url 'https://download.visualstudio.microsoft.com/download/pr/76a91598-ca94-410b-b874-c7fa26e400da/91c21c93a88dd82e8ae429534dacbc7a4885198361eae18d82920c714e328cf9/VC_redist.x86.exe'. Exception calling "Read" with "3" argument(s): "The operation has timed out."
```

E

```
경고: An existing Chocolatey installation was detected. Installation will not continue.  
For security reasons, this script will not overwrite existing installations.
```

```
Please use choco upgrade chocolatey to handle upgrades of Chocolatey itself.
```

```
Chocolatey v0.10.15
```

```
[Pending] Removing incomplete install for 'visualstudio2017buildtools'
```

```
Upgrading the following packages:
```

```
python;visualstudio2017-workload-vctools
```

```
By upgrading you accept licenses for the packages.
```

```
python is not installed. Installing...
```

```
Progress: Downloading python3 3.9.5... 0%
```

관리자: Windows PowerShell

```
경고: An existing Chocolatey installation was detected. Installation will not continue.  
For security reasons, this script will not overwrite existing installations.
```

```
Please use choco upgrade chocolatey to handle upgrades of Chocolatey itself.
```

```
choco : 'choco' 용어가 cmdlet, 함수, 스크립트 파일 또는 실행할 수 있는 프로그램 이름으로 인식되지 않습니다. 이름이 정확  
한지 확인하고 경로가 포함된 경우 경로가 올바른지 검증한 다음 다시 시도하십시오.
```

```
위치 줄:1 문자:176
```

```
+ ... .DownloadString('https://chocolatey.org/install.ps1')); choco upgrade ...
```

```
+ ~~~~~  
+ CategoryInfo          : ObjectNotFound: (choco:String) [], CommandNotFoundException  
+ FullyQualifiedErrorId : CommandNotFoundException
```

```
Type ENTER to exit:
```

경고: An existing Chocolatey installation was detected. Installation will not continue.
For security reasons, this script will not overwrite existing installations.

Please use choco upgrade chocolatey to handle upgrades of Chocolatey itself.

Chocolatey v0.10.15

Upgrading the following packages:

python;visualstudio2017-workload-vctools

By upgrading you accept licenses for the packages.

python is not installed. Installing....

Progress: Downloading python3 3.9.5... 20%

python not installed. An error occurred during installation:

작업 시간을 초과했습니다.

python package files upgrade completed. Performing other installation steps.

The upgrade of python was NOT successful.

python not installed. An error occurred during installation:

작업 시간을 초과했습니다.

visualstudio2017-workload-vctools is not installed. Installing....

On Windows

Install the current version of Python from the [Microsoft Store package](#).

Install tools and configuration manually:

- Install Visual C++ Build Environment: [Visual Studio Build Tools](#) (using "Visual C++ build tools" workload) or [Visual Studio Community](#) (using the "Desktop development with C++" workload)
- Launch cmd, `npm config set msvs_version 2017`

If the above steps didn't work for you, please visit [Microsoft's Node.js Guidelines for Windows](#) for additional tips.

To target native ARM64 Node.js on Windows 10 on ARM, add the components "Visual C++ compilers and libraries for ARM64" and "Visual C++ ATL for ARM64".

Configuring Python Dependency

<https://github.com/nodejs/node-gyp#on-windows> 에 설명 따라서 수동으로 했음.

데스크톱 및 모바일 (4)



C++를 사용한 데스크톱 개발
MSVC, Clang, CMake 또는 MSBuild 등 선택한 도구를 사용하여 Windows용 최신 C++ 앱을 빌드합니다.



.NET을 사용한 모바일 개발
C# 및 F#를 사용하여 iOS, Android 및 Windows용 플랫폼 간 애플리케이션을 빌드하기 위한 도구입니다.



.NET 데스크톱 빌드 도구
C#, Visual Basic 및 F#를 사용하여 WPF, Windows Forms 및 콘솔 애플리케이션을 빌드하기 위한 도구입니다.



유니버설 Windows 플랫폼 빌드 도구
유니버설 Windows 플랫폼 애플리케이션을 빌드하는 데 필요한 도구를 제공합니다.



웹 및 클라우드 (4)



웹 개발 빌드 도구
웹 애플리케이션을 빌드하기 위한 MSBuild 작업 및 대상입니다.



Azure 개발 빌드 도구
Azure 애플리케이션을 빌드하기 위한 MSBuild 작업 및 대상입니다.



Office/SharePoint 빌드 도구
Office 및 SharePoint 추가 기능, VSTO 추가 기능을 빌드합니다.



데이터 스토리지 및 처리 빌드 도구
SQL Server 데이터베이스 프로젝트 빌드



분류되지 않음 (1)

MSBuild 도구

Node.js 빌드 도구

.NET 빌드 도구

Visual Studio 확장 개발

포함됨

- ✓ Visual Studio SDK Build Tools Core
- ✓ Visual Studio 확장 개발 필수 구성 요소

선택 사항

- ☐ PreEmptive Protection - Dotfuscator
- ☐ v142 빌드 도구용 C++ 유니버설 Windows...
- ☐ 최신 v142 빌드 도구용 C++ ATL(x86 및 x64)
- ☐ 최신 v142 빌드 도구용 C++ MFC(x86 및 x64)
- ☒ MSVC v142 - VS 2019 C++ x64/x86 빌드...

위에 것들은
용량 너무 크길래
설치 안 하고 아래 것들만 했음.



Node.js 빌드 도구



비동기 이벤트 구동 JavaScript 런타임인 Node.js를 사용하여 확장성 있는 네트워크 애플리케이션을 빌드하기 위한...

기타 도구 집합 (2)



.NET 빌드 도구



.NET, ASP.NET 코어, HTML/JavaScript 및 컨테이너를 사용하여 애플리케이션을 빌드하기 위한 도구입니다.



Visual Studio 확장 개발



Visual Studio용 추가 기능 및 확장(새 명령, 코드 분석기 및 도구 창 포함)을 빌드하기 위한 도구입니다.

Spring 환경 설정

HTML/CSS, Vue, React, JavaScript 뭐가 뒷건 일단 서버에 붙어야 멋지게 실행가능하다.
기본적으로 서버에 붙을 수 있게 Controller 정도만 만들어놓도록 한다.

Spring 초기 설정

1. 구글에서 `spring initializr` 를 검색한다.
`https://start.spring.io/`
2. **Project:** Gradle Project
Language: Java
Spring Boot: 2.5.0
Project Metadata: 변경 없음
Dependencies: Lombok, Spring Web, Thymeleaf,
JDBC API, Spring Data JPA, MySQL Driver
3. Generate를 누르면 다운이 받아짐
4. 다운 받은 내용을 압축해제한다(내용이 바이러스라면서 사라지면 동작 안되니 주의)
5. 압축 해제한 폴더를 우리의 git 경로상 javascript에 있는 이름 폴더로 이동시킨다.
6. IntelliJ를 켜다.
7. Open을 눌러서 javascript상에 있는 이름 폴더의 demo를 선택한다.
8. 신뢰(Trust)하냐고 묻는데 당연히 Trust를 누르면 된다.
9. IntelliJ가 gradle을 구동시켜 프로젝트를 빌드하기 시작하는데
시간이 꽤 걸리니 커피 혹은 차나 한 잔 하도록 한다.
10. 준비가 완료되면 Project 쪽 상단의 메뉴가 바뀐다.
11. 진입하자마자 `src/main/resources/application.properties`의 이름을 Refactor로 변경한다.
`application.yaml`로 변경한다.

12. 그리고 내부의 내용을 아래와 같이 작성한다.

```
server:
```

```
  port: 7777
```

13. `src/main/java/com.example.demo` 폴더의 `DemoApplication`을 실행한다.

14. 콘솔창에 포트 번호 7777로 서버가 구동된다는 것이 나오면 OK!

15. `build.gradle` 폴더에 `sourceCompatibility = '8'` 부분을 버전에 맞춰서 작성한다.

굳이 여기서 '8' 부분에 버전 맞춰서 할 필요 없는듯??

2022.06.10 HTML/CSS 부분이랑 같이 볼 것