

모바일 프로그래밍

Phase I

Phase I: Goal

Building Vue.JS-based To-Do Applications

Phase I: Overview

- A simple To-Do application



Phase I: Overview

- HTML5
- CSS
- Javascript
 - Vue.js2



Phase I: Mission

■ Mandatory

- 기본 Todo 어플리케이션 동작

■ Improvement

- Improvements 페이지 참조하여 구현!

■ Challenge

- Challenges 페이지 참조하여 구현!

Phase I: Improvements

■ 기본적인 To-Do 기능 구현

- 완료 마킹 기능 추가
 - 현재는 삭제 밖에 없음
- 할 일의 상세 정보 (내용, 기한 등) 입력 기능 추가
 - 현재는 할일의 제목만 입력 가능
 - 모달 등의 추가적인 UI 컴포넌트 활용
- 할 일의 수정 기능 추가
 - 현재는 입력/삭제만 가능

Phase I: Challenges

■ UI customization

- UI를 더욱 멋지고 아름답게 ...!
- Mobile friendly (Vuetify, Bootstrap-vue 등 적용)

■ Your own improvements!

- 할 일의 카테고리 설정 기능
- 할 일의 상태 추가 (할 일, 진행 중, 완료 등)
- 할 일의 상태별 필터 조회 기능
- 할 일 검색 기능
- ...

■ Phase 2 진행 예정 사항 (Phase I에서 진행 X)

- Database/API 서버 구축/활용
- Device feature 사용 관련

Phase I: Schedule

■ Week 5

- Vue.JS Tutorial
- Phase I 소개

■ Week 6

- 프로젝트 계획서 및 분석 보고서 제출 (31/Mar)
- 팀별 계획서 피드백 (1/Apr)

■ Week 7

- 중간 발표 (온라인)

■ Week 8

- 팀별 미팅 (오프라인)

■ Week 9

- 기본과제 최종 발표 (오프라인)

Phase I: Evaluation

■ Product quality (80%)

- Quality of basic improvements
- Quality of challenges

■ Presentation quality (20%)

Main Technologies

■ HTML5+CSS

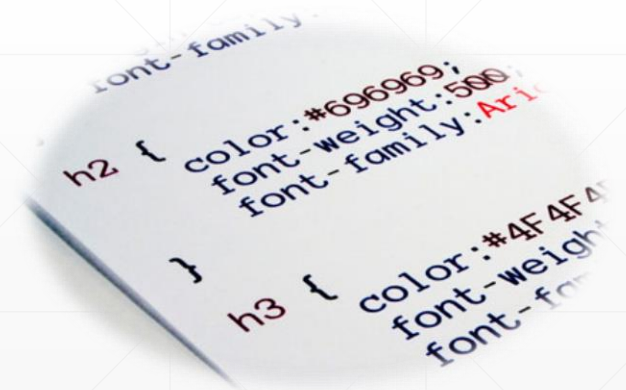
- Hyper Text Markup Language
- Cascading Style Sheet

■ Frontend of your application

- UI presentation, contents structure
- Webpage styling

■ Learning material

- HTML(5) Tutorial: <http://www.w3schools.com/html/default.asp>
- CSS(3) Tutorial: <http://www.w3schools.com/css/default.asp>



Main Technologies (cont'd)

■ Javascript + Vue.JS2

- Programming language for HTML/Web
- Vue.JS: Progressive web framework

■ Frontend of your application

- Front-end behavior

■ Learning material

- Vue.JS Guide: <https://kr.vuejs.org/>



Vue.js



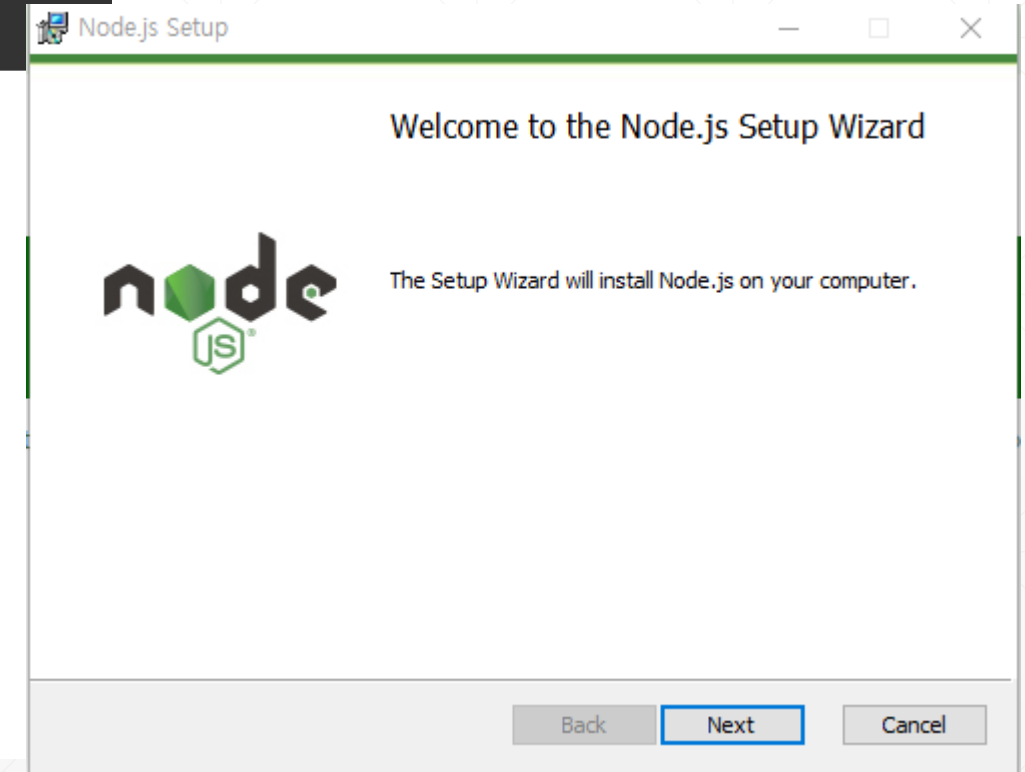
Lab: Development Environment

- Installing Node.JS (for dev server)
 - Vue-CLI
- Cloning a basic To-Do application
- Running the To-Do app

Installing NodeJS

■ Windows Installer

➤ <http://nodejs.org>



Installing NodeJS (cont'd)

■ Node.js version check

➤ Node --version

■ Npm version heck

➤ Npm --version

명령 프롬프트

```
C:\Users\Jinwoo>node --version  
v16.14.2
```

```
C:\Users\Jinwoo>npm --version  
8.5.0
```

```
C:\Users\Jinwoo>_
```

Installing Vue-CLI

■ Install Vue-CLI with NPM

➤ `npm install -g @vue/cli`

```
C:\Users\Jinwoo>npm install -g @vue/cli
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydel
npm WARN deprecated source-map-url@0.4.1: See https://github.com/ly
npm WARN deprecated source-map-resolve@0.5.3: See https://github.cc
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/re
npm WARN deprecated graphql-extensions@0.15.0: The `graphql-extendi
Server 3. Use the plugin API instead: https://www.apollographql.com
ns/
added 165 packages, removed 605 packages, changed 716 packages, and a
83 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
npm notice
npm notice New patch version of npm available! 8.5.0 -> 8.5.5
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.5.5
npm notice Run npm install -g npm@8.5.5 to update!
npm notice
C:\Users\Jinwoo>
```

Cloning a Basic To-Do App

■ Vue-todo Git address

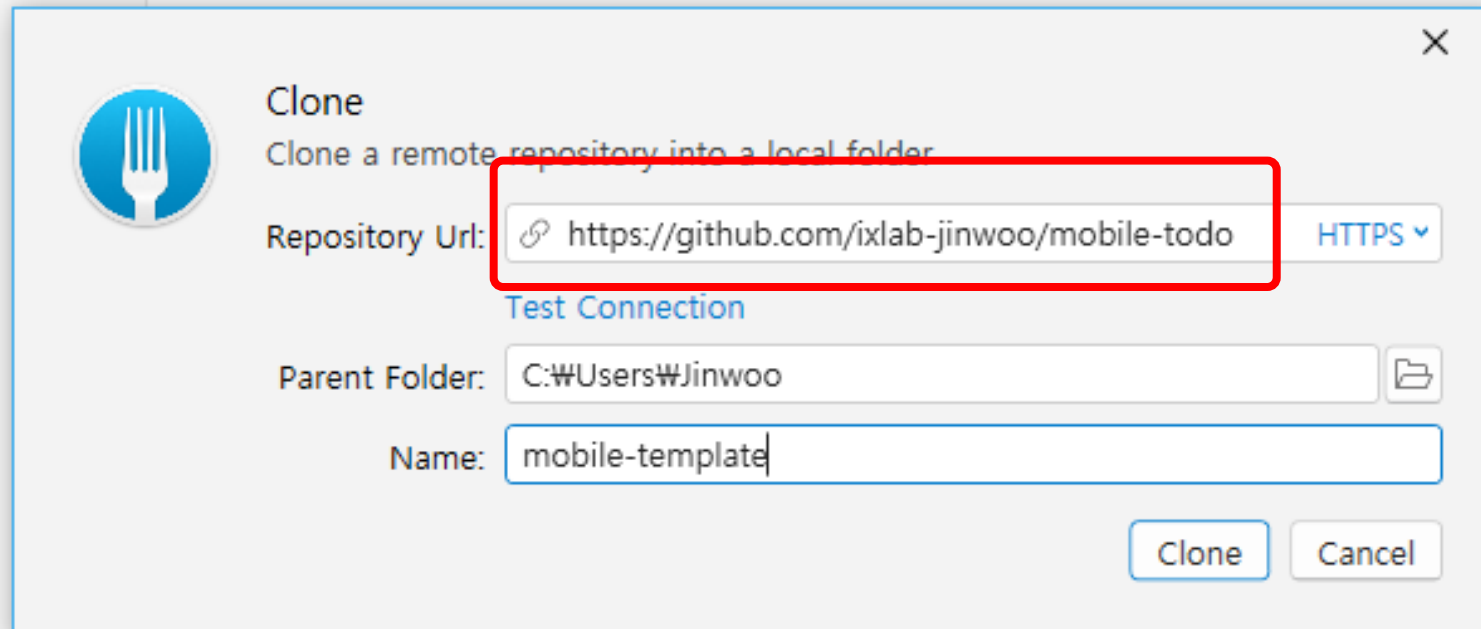
➤ <https://github.com/ixlab-jinwoo/mobile-todo>

The screenshot shows the GitHub repository page for `ixlab-jinwoo/mobile-todo`. The repository is public and has 2 branches and 0 tags. A yellow banner indicates that the `mobile` branch had recent pushes 13 minutes ago, with a button to "Compare & pull request". Below this, the `main` branch is selected. The commit history shows a single commit by `ixlab-jinwoo` titled "Added Todo base version" from 1 hour ago. The commit details show a list of files added, including `public`, `src`, and various configuration files.

File	Commit Message	Time
<code>public</code>	Added Todo base version	1 hour ago
<code>src</code>	Added Todo base version	1 hour ago
<code>.browserslistrc</code>	Added Todo base version	1 hour ago
<code>.eslintrc.js</code>	Added Todo base version	1 hour ago
<code>.gitignore</code>	Added Todo base version	1 hour ago
<code>README.md</code>	Added Todo base version	1 hour ago
<code>babel.config.js</code>	Added Todo base version	1 hour ago
<code>jsconfig.json</code>	Added Todo base version	1 hour ago
<code>package-lock.json</code>	Added Todo base version	1 hour ago
<code>package.json</code>	Added Todo base version	1 hour ago
<code>vue.config.js</code>	Added Todo base version	1 hour ago

Cloning a Basic To-Do App (cont'd)

■ Cloning with Gitfork!



Cloning a Basic To-Do App (cont'd)

■ Cloning with Gitfork!

The screenshot displays the Gitfork web interface for a repository named 'mobile-template'. The interface includes a top navigation bar with options like 'File', 'View', 'Repository', 'Window', and 'Help'. Below this, there's a toolbar with icons for 'Quick Launch', 'Fetch', 'Pull', 'Push', and 'Stash'. The main area shows a list of commits for the 'mobile-template' repository. The 'main' branch is highlighted, showing a commit by Jin-Woo Jeong with the message 'Added Todo base version' and a commit hash of 5eab482. The bottom section shows the commit details, including the author's name, email, and the commit hash.

mobile-template

origin/mobile Added mobile template Jin-Woo Jeong 0dea2b5 23 Mar 2022 00:21

main Added Todo base version Jin-Woo Jeong 5eab482 22 Mar 2022 23:44

Filter

Branches

- main

Remotes

- origin

Tags

Stashes

Submodules

Commit Changes File Tree

AUTHOR

Jin-Woo Jeong jinw.jeong@seoultech.ac.kr ~

22 3 2022 23:44:06 +09:00

REFS main origin/main

SHA 5eab482b828cee9d29cda7205ec95d245f63f7db

PARENTS

Project Setup

■ Project structure

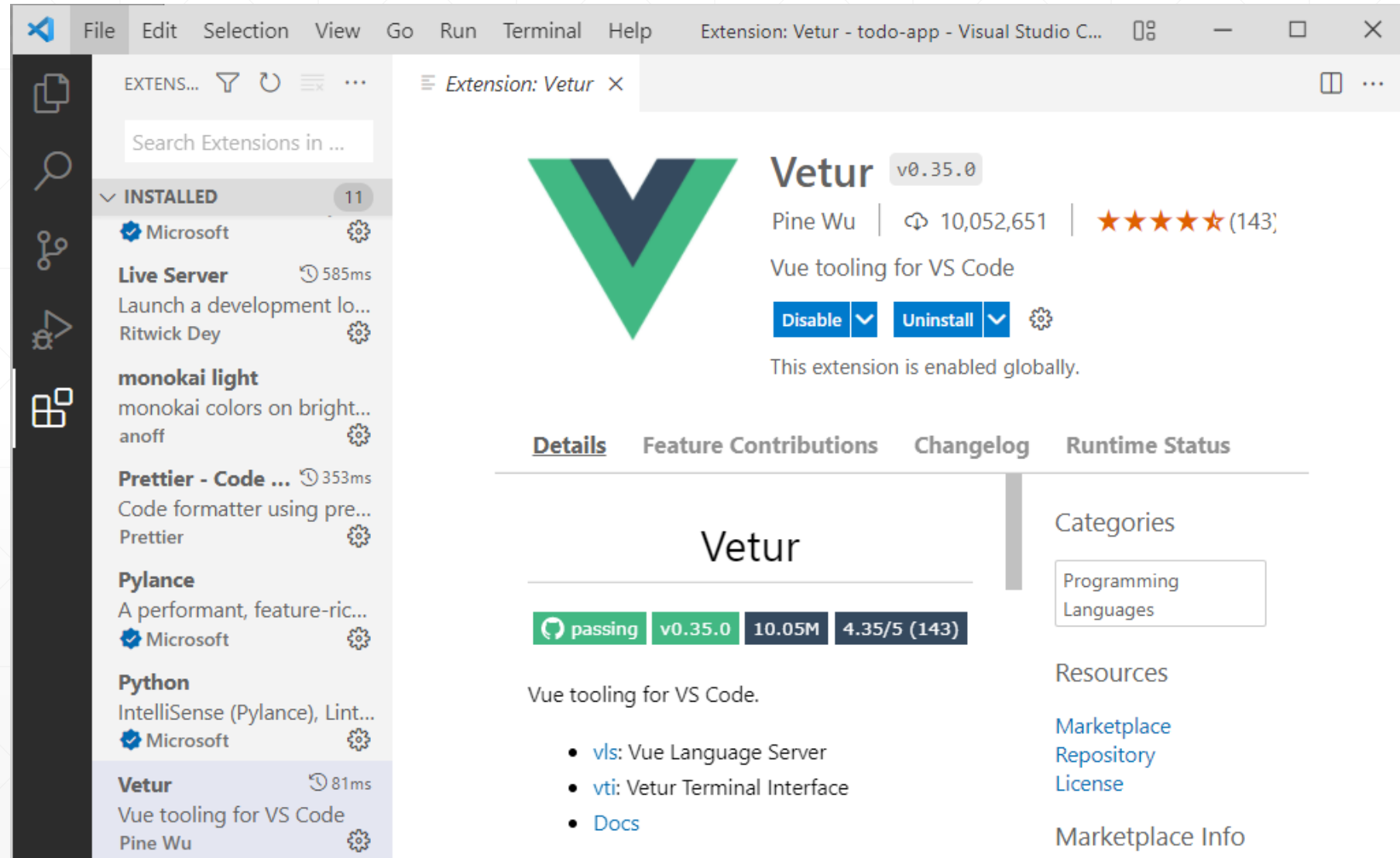
- Public/: 기본 프론트엔드 템플릿
- Src/: Vue project 코드 구현 폴더
 - Components/ : 앞으로 구현하게 될 컴포넌트들이 저장될 공간
 - App.vue/: 프로젝트 기본 컴포넌트
 - Main.js: vue 프로젝트 기본 설정 파일
- Package.json (&lock): npm dependency
- .gitignore: git ignorance 파일
- 그 외 각종 config 파일

■ VSCode extension 중 Vetur

Project Setup: VSCode Extension

Vetur

➤ Vue.JS Tooling for VSCode



The screenshot displays the Visual Studio Code interface. On the left, the 'EXTENSIONS' sidebar shows a list of installed extensions, with 'Vetur' at the bottom. The main editor area shows the 'Vetur' extension details page. The extension is 'Vetur v0.35.0' by 'Pine Wu', with 10,052,651 downloads and a 4.35/5 star rating (143 reviews). It is described as 'Vue tooling for VS Code'. The page includes tabs for 'Details', 'Feature Contributions', 'Changelog', and 'Runtime Status'. The 'Details' tab is active, showing the extension's name, version, and a list of resources: 'vls: Vue Language Server', 'vti: Vetur Terminal Interface', and 'Docs'. The 'Categories' section lists 'Programming Languages'. The 'Resources' section lists 'Marketplace', 'Repository', and 'License'. The 'Marketplace Info' section is also visible.

File Edit Selection View Go Run Terminal Help Extension: Vetur - todo-app - Visual Studio C...

EXTENS... Search Extensions in ...

INSTALLED 11

- Microsoft
- Live Server 585ms
Launch a development lo...
Ritwick Dey
- monokai light
monokai colors on bright...
anoff
- Prettier - Code ... 353ms
Code formatter using pre...
Prettier
- Pylance
A performant, feature-ric...
Microsoft
- Python
IntelliSense (Pylance), Lint...
Microsoft
- Vetur** 81ms
Vue tooling for VS Code
Pine Wu

Vetur v0.35.0

Pine Wu | 10,052,651 | ★★★★★ (143)

Vue tooling for VS Code

Disable Uninstall

This extension is enabled globally.

Details Feature Contributions Changelog Runtime Status

Vetur

passing v0.35.0 10.05M 4.35/5 (143)

Vue tooling for VS Code.

- vls: Vue Language Server
- vti: Vetur Terminal Interface
- Docs

Categories

Programming Languages

Resources

Marketplace Repository License

Marketplace Info

Run the App!

■ Setup

- 터미널에서 `npm install` 실행 (각종 디펜던시 설치)

■ Running

- `Npm run serve` (테스트 서버로 실행)
- `Npm run build` (프로덕션 코드 생성)

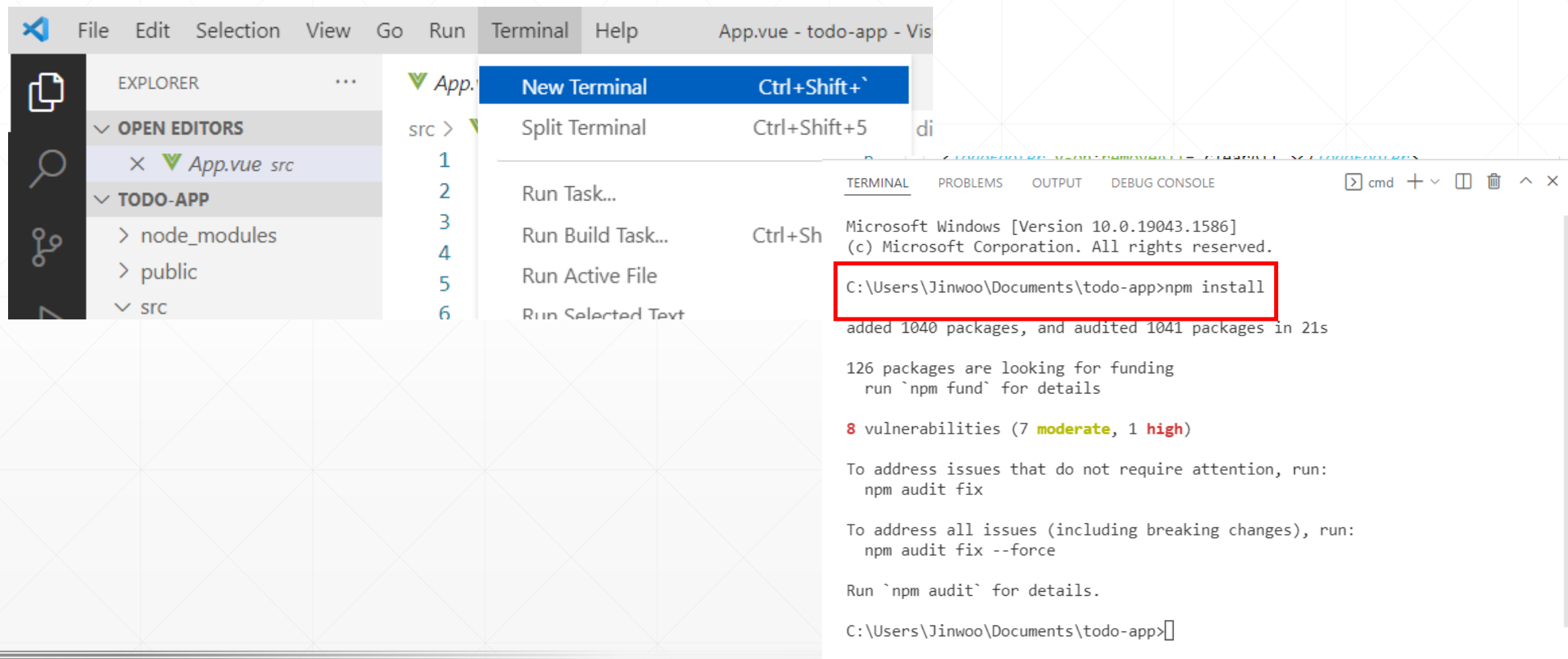
■ Branches

- `main`: default template
- `mobile`: modified template with vuetify framework

Run the App! (cont'd)

■ Setup

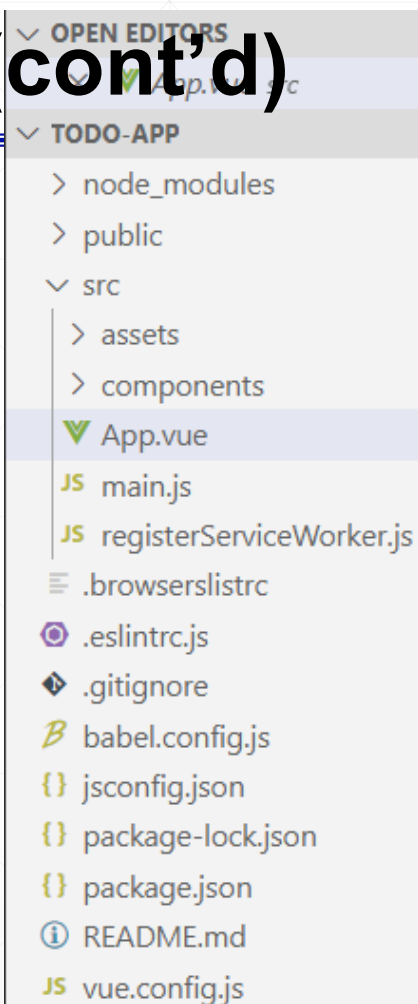
▶ 터미널에서 npm install 실행 (dependency 자동 설치 과정 진행)



Run the App! (cont'd)

■ Running

- 터미널에서 Npm run serve (테스트 서버로 실행)



```
src > App.vue > {} "App.vue" > template > div#app
1 <template>
2   <div id="app">
3     <TodoHeader></TodoHeader>
4     <TodoInput v-on:addTodo="addTodo"></TodoInput>
5     <TodoList v-bind:propsdata="todoItems" @removeTodo="removeTodo"></TodoList>
6     <TodoFooter v-on:removeAll="clearAll"></TodoFooter>
7   </div>
8 </template>
9
10 <script>
11 import TodoHeader from './components/TodoHeader.vue'
12 import TodoInput from './components/TodoInput.vue'
13 import TodoList from './components/TodoList.vue'
14 import TodoFooter from './components/TodoFooter.vue'
15
16 export default {
17   data() {
18     return {
19       todoItems: []
20     }
21   },
22   methods: {
23     clearAll() {
```

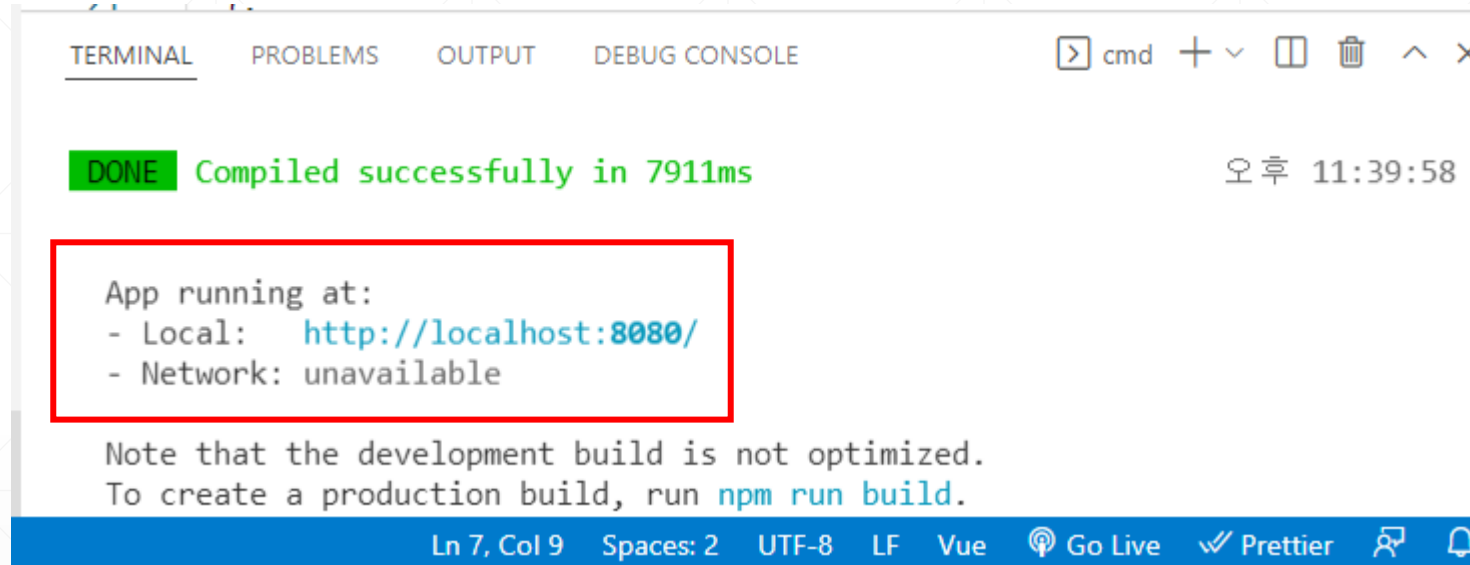
TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

cmd + v + [icon] + [icon] + ^ + x

```
C:\Users\Jinwoo\Documents\todo-app>npm run serve
```

Run the App! (cont'd)

- Open localhost:[port] via any browser



TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

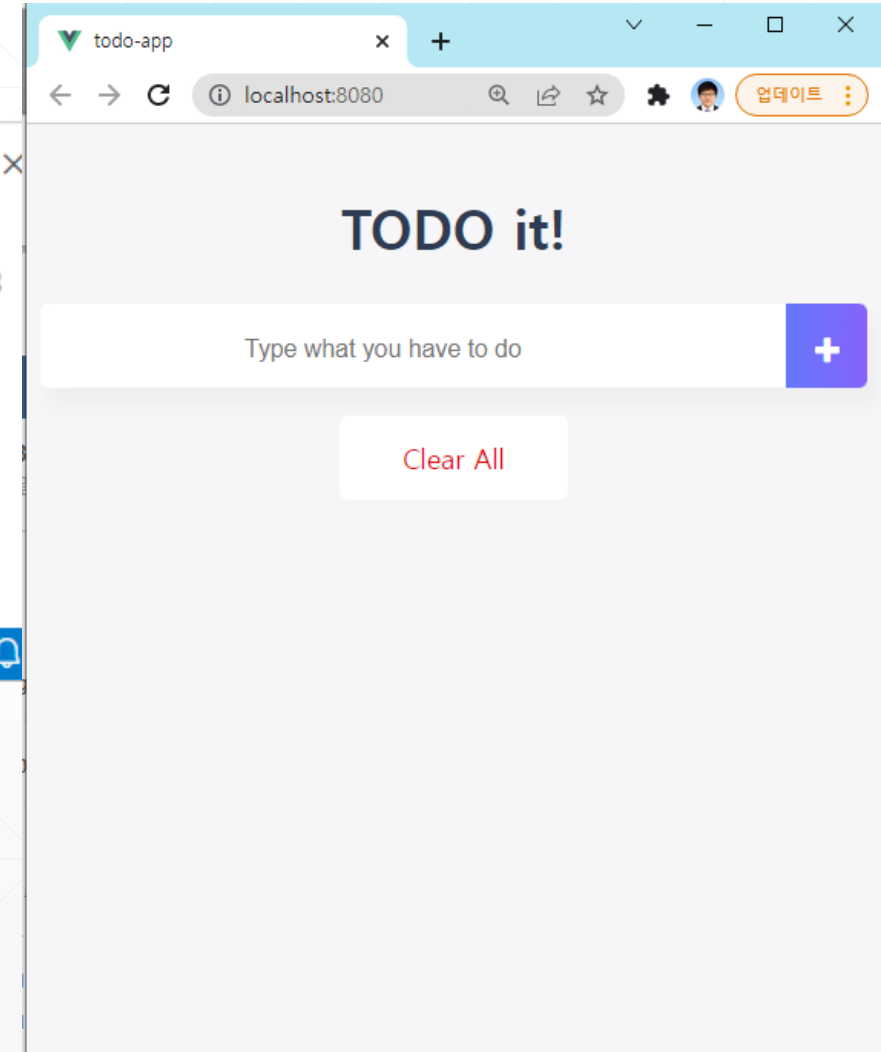
DONE Compiled successfully in 7911ms 오후 11:39:58

App running at:

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

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

Ln 7, Col 9 Spaces: 2 UTF-8 LF Vue Go Live Prettier



- To-Do app (main branch)

Run the App! (cont'd)

- Open localhost:[port] via any browser
- To-Do app (mobile branch)

