Common Development tools

http://www.tutorialspoint.com/index.htm



Login all Microsoft apps using company email account

All developers

Desktop App



Install all applications and customise them as instructed.

- Visual Studio Code
  - VSCode Customization
- Postman
- Git, Git main program (Windows Only)
  - Mac OS has Git pre-installed, no need to install
  - Set git newline character
- Sublime Merge
- Google Chrome browser
- Microsoft Teams
- WeChat desktop app
  - Mac via App Store
- WhatsApp desktop app (only for Hong Kong staff)
  - Mac via App Store
- Homebrew (Mac Only)

Mobile App

- WeChat
- Microsoft Authenticator (for 2-factor authentication)
- Microsoft Outlook or Web Outlook
- Microsoft OneDrive
- Microsoft Teams

Web developer (frontend/ Backend/ QA/ Web Designer)

- Node.js, install via NVM
  - if you have already installed node.js via the official installer, you will need to uninstall it and delete the folder “c:\program files\nodejs” before you run the NVM installer

    - NVM (MacOS), https://github.com/nvm-sh/nvm
    - NVM for Windows, https://github.com/nvm-sh/nvm
- use npm global install the following package
    - pnpm: `npm install -g pnpm@7`
    - gulp-cli: `pnpm install -g gulp-cli`
- Google Chrome Browser
    - Vue.js devtools https://chrome.google.com/webstore/detail/vuejs-devtools/nhdogjmejiglipccpnnnanhbledajbpd
- MongoDB (no need for Web Designer)
    - Mac via Homebrew, read below
- Studio 3T Free
    - need register an account with email to start using it. The registration is free.

Flutter developer

- set up a Flutter development machine



You need to setup the Android Studio but we will use VS Code for the development tool.

- Android Studio
    - Dart plugin
    - Flutter plugin



On Mac, if install Android Studio 4.1, may need to create a symbolic link so that 'flutter doctor' could check the Dart and Flutter plugins correctly.

```
$ ln -s ~/Library/Application \Support/Google/AndroidStudio4.1/plugins ~/Library/Application \Support/AndroidStudio4.1
```

- Xcode (via App Store) Mac only
    - Xcode Command Line Tools (after install Xcode, run this command via terminal 'xcode-select –install')
    - CocoaPods (Library manage tools)

Web Designer

- Install AMP (Apache 2.4 or up, MySQL 8 or up, PHP 7.3 or up)
    - Instructions for MacOS
    - Instructions for Windows 10
- WordPress 6 or up

Designer

- AI
- Photoshop
- Google Chrome

QA

- k6
- Postman-to-k6: `npm install -g @apideck/postman-to-k6`
- Using k6.script
- mobile testing environment setup

.NET developer

- Visual Studio 2022 (v17.2.6)
  - .NET 6 SDK and Runtime (included in Visual Studio 17.2.6)
- Swagger
- Entity Framework
- Json.NET - Newtonsoft

Deployment Tools

- Azure-Cli
- OrbStack (faster than Docker desktop)
- Docker (you may skip the installation of Docker desktop, but the command are still the same for OrbStack)

Install an App with specific version via Homebrew 使用 Mac OS only

```
$ brew tap homebrew/versions
```

Then search for your desired package:

```
$ brew search mongodb
```

This might give you the follow results:

```
...
mongodb/brew/mongodb-community
mongodb/brew/mongodb-community@4.2
mongodb/brew/mongodb-community@5.0
```

And then install the desired version:

```
$ brew install mongodb/brew/mongodb-community@4.2
```

Miscellaneous software

- Online Sprite Creator

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