

# OnlineDietitian Back-End Setup

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## Environment Setup

1. Install Microsoft Visual Studio 2019
2. Install MySQL Installer for Version 8.0.17
  - a. Use link: <https://dev.mysql.com/downloads/installer/>
  - b. Select all developmental configuration for downloads
    - i. Make sure to have installed MySQL Server (8.0.17)
    - ii. Make sure to have installed Connector/C++ (8.0.17)
      1. Select Developmental Options under Connector tab
  - c. Documentation:
    - i. <https://dev.mysql.com/doc/mysql-installation-excerpt/8.0/en/>
    - ii. <https://dev.mysql.com/doc/connector-cpp/8.0/en/>
3. (Potential Development)\* Install Wt
  - a. Use link: <https://github.com/emweb/wt/releases>
  - b. Install Wt 4.1.1 for MSVS version installed (Preferably 2019)
  - c. Documentation:
    - i. [https://redmine.emweb.be/projects/wt/wiki/Installing\\_Wt\\_on\\_MS\\_Windows](https://redmine.emweb.be/projects/wt/wiki/Installing_Wt_on_MS_Windows)
    - ii. <https://www.webtoolkit.eu/wt/doc/tutorial/wt.html>
4. Project Configurations
  - a. Create a new project for an empty C++ project.
  - b. Create a basic cpp file to allow for property configurations
  - c. Right click on project and go to properties
    - i. C/C++ -> General, Additional Include Directories
      1. C:\locationOf\MySQL\MySQL Server 8.0\include
      2. C:\locationOf\MySQL\Connector C++ 8.0\include
        - a. Will not show if 'Development Options' wasn't selected
      3. (Potential Development) C:\locationOf\Wt 4.1.1 msvc2019 x64\include
    - ii. Linker -> Input, Additional Dependencies
      1. libmysql.lib
      2. vs14/mysqlcppconn8.lib
      3. vs14/mysqlcppconn8-static.lib
      4. Potentially:
        - a. wtd.lib

- b. wthttpd.lib
  - c. wtdbod.lib
  - d. Wtdbomysqld.lib
- iii. Linker -> General, Additional Library Directories
  - 1. C:\locationOf\MySQL\MySQLServer 8.0\lib
  - 2. C:\locationOf\MySQL\Connector C++ 8.0\lib64
  - 3. (Potential Development) C:\locationOf\Wt 4.1.1 msvs2019 x64\lib

## Error Handling

1. Before being able to install MySQL, you may need to clear any Microsoft Visual C++ Redistributables from future installations of MSVS
2. Previous MSVS may cause error when installing, reinstallation of MSVS 2019 can fix after deleting previous versions.

\*Potential Development is marked as an area of back-end development that isn't completely fleshed out and may be removed upon further discussion. Download of content is not necessary till further notice.