

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. 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
 - ii. Linker -> Input, Additional Dependencies
 1. libmysql.lib
 2. vs14/mysqlcppconn8.lib
 3. vs14/mysqlcppconn8-static.lib
 - iii. Linker -> General, Additional Library Directories
 1. C:\locationOf\MySQL\MySQLServer 8.0\lib
 2. C:\locationOf\MySQL\Connector C++ 8.0\lib64
4. Install REST C++ SDK
 - a. Install vcpkg
 - i. Use Link: <https://github.com/Microsoft/vcpkg>
 - ii. To clone directory:
 1. `git clone https://github.com/Microsoft/vcpkg.git`
 2. `cd vcpkg`
 - iii. Run this command to create an executable for vcpkg commands:
 1. `./bootstrap-vcpkg.sh`
 - b. Install REST SDK

- i. Use Link: <https://github.com/microsoft/cpprestsdk>
 - ii. Run this command inside of the vcpkg file:
 - 1. `./vcpkg install cpprestsdk cpprestsdk:x64-windows`
 - 2. `.\vcpkg integrate install`
 - c. Inside of the Visual Studio Project
 - i. Right click on project and go to properties
 - 1. C/C++ -> General, Additional Include Directories
 - a. `C:\locationOf\vcpkg\cpprestsdk\Release\include`
 - 2. Linker -> General, Additional Library Directories
 - a. `C:\locationOf\vcpkg\cpprestsdk\Release\libs`
5. BUILD Instructions
- a. To start running the server listening to requests
 - i. Build Solution
 - ii. Start Without Debugging

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.