**Bookshelf Project**

Standard Operating Procedure

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Bookshelf Project is a series of files to run the user-database website My Bookshelf. In this website, users can register any number of books they’ve read and keep track of said books with bookmarks. It’s fairly simple to navigate, but this document will be about how to deploy the program.

Project Link: <https://github.com/HannahN-P/Bookshelf-Project>

**How to Run on Visual Studio**

1. Save all of the files from GitHub, except the ones in the @types folder, into a new folder on your device
2. Download Visual Studio 2017 or above if it’s not already on your device
3. Check if the following list of plugins has been added to the project
   1. The current plugins are visible via “Extensions and Updates,” which is found in the “Tools” section of the tool bar
   2. MySQL for Visual Studio, Microsoft Visual Studio Test Platform, Markdown Editor [optional], VisualStudio Interactive Window, Roslyn Expression Evaluators, Roslyn Language Services, Roslyn Language Services (Local Placeholder), Roslyn Interactive Components, and Visual Studio 2017 Tools for Unity [optional]
4. Make sure that the program will start on server.js
   1. This can be checked through package.json
   2. The specific line to set this up is “main”: “server.js”,
5. Run via web server

**How to Run on Command Prompt**

1. Download Node.js and Node Package Manager (NPM) on your device
2. Save all of the files from GitHub, except the ones in the @types folder, into a new folder on your device
3. Open file explorer and navigate to the folder that holds the main program
4. Copy the search route via the ctrl + c keys
5. On the side bar of the file explorer, click on “This PC”
6. At the upper-left side of the page, click on “Computer”; a tool box will drop down
7. From the tool box that appears, select “Properties”
   1. Admin access is required beyond this point
8. A small window titled as “System” should appear; from there, access “Advanced system settings” on the side bar
9. Go to the “Advanced” tab under the new “System Properties” window
10. Open “Environment Variables…” at the bottom of the current tab
11. One of the “System variables” should be “Path”; select “Path” before going to “Edit…” at the bottom of “Environment Variables”
12. A window for editing should appear, but rather than edit, click on “New,” found in the upper-right corner and then paste the program path copied earlier with ctrl + v
13. Confirm the new path with “OK”
14. Open command prompt through your start menu
15. Type “cd ” + (ctrl + v) and then press enter on your keyboard
16. Input “start [program name]” and press enter again
    1. The program should run at this point
    2. If the program is not deploying, then make sure the program is inside the command prompt’s search path and that all spaces in the program’s name are replaced with underscores

**How to Run on Command Prompt v0.2**

1. Install Node.js onto your device
2. Install MySQL and SQLyog
3. Setup a user connection on MySQL
4. Memorize or record the connection and database values
   1. Connection values include host, user, and password
5. On database.js, re-establish the connection and database values to the ones made initially on MySQL
6. Save all of the files from GitHub, except the ones in the @types folder, into a new folder
7. Open file explorer and navigate to the folder that holds the main program, server.js
8. Copy the search route via the ctrl + c keys
9. Open command prompt through your start menu
10. Type “cd ” + (ctrl + v) and then press enter on your keyboard
11. Type “node server” and press enter again
    1. The following should appear: “The magic happens on port 1337”
12. Open a web browser (i.e. Microsoft Edge, Mozilla Firefox, Google Chrome)
13. Type <http://localhost:1337/> into the URL and press enter