

# HRS H-Block User Guide

## Set Up

To run this project, please follow these steps:

1. Download Python 3.7.2 for your operating system here (<https://www.python.org/downloads/>). When installing, make sure to select the option to “add to PATH”.
2. You will also need to install Flask and the Flask MySQL extension in order to run the server. Open Terminal/CommandPrompt/etc. Run this to get pip: “curl https://bootstrap.pypa.io/get-pip.py -o get-pip.py”. Then run “python get-pip.py --user”. And enter “python -m pip install Flask --user” to install Flask and then “python -m pip install flask-mysql --user” to install the extension after you finish installing Flask.
3. Install the MySQL Community Server and the MySQL Workbench (install the workbench only if you wish to see and manage the database from outside the website). The server can be found here (<https://dev.mysql.com/downloads/mysql/>), and choose to download the DMG archive.
4. **(OPTIONAL)** If you want to visually see the table, you can download the workbench from here (<https://dev.mysql.com/downloads/workbench/>). On Windows, you will be able to install both the workbench and the server from the MySQL installer, but on all other operating systems, you will need to install them separately.
5. Configure the server with the default options (just click through everything) until prompted to enter a password. For this password, you can use any you choose.
6. Make sure that the MySQL database is running by navigating to System Preferences and find the dolphin icon that says “MySQL.” Click on it and if “MySQL 8.0.13” is not under “Active Instance,” click the button on the right of the window that says “Start MySQL Server”
7. Click on the button that says “Initialize Database”. **Make sure you use “root” as the username and “pass” as the password** or else you must change lines 12 and 13 in server.py which reads “app.config['MYSQL\_DATABASE\_USER'] = 'root'” and “app.config['MYSQL\_DATABASE\_PASSWORD'] = 'pass'” by replacing ‘root’ and/or ‘pass’ with the username/password you chose (surrounded by single quotes). For Macs, it probably doesn’t allow you to make a password shorter than 8 characters, so you have to change lines 12 and 13 as directed above. Hit Ctrl+S to save your changes.

## Running the Server and Using the Website

Now that you’ve downloaded and set up everything properly, open Terminal/CommandPrompt/etc. And navigate to the folder containing server.py. This is done by right clicking on the folder and selecting “Properties”(Windows)/”Get Info”(Mac) and copying the location of the file(it should look something like [Disk Name]:\Users\[Username]\Desktop). Type “cd” into the command line and paste in what you copied, making sure to separate “cd” and whatever you entered with a space; then, hit Enter. Run the server by

entering “python server.py”. The server should be “Running on <http://127.0.0.1:5000/>”, so copy the link and enter it into your preferred browser.

You should be redirected to the website. Begin by logging in as an admin(using admin for both the username and password). You can sign in as a student using “root” as the username and “pass” as the password, but at this point you won’t be able to see any classes to sign up for since no classes exist, yet. You can add them from the admin page by filling in the boxes on the right of the page and clicking “Add Class”. You should be able to see the class you added from the admin page, and you can log out and sign in as a student to sign up for the class if you like.