

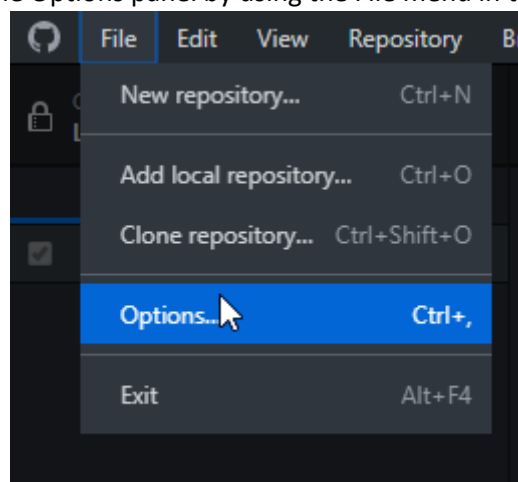
Setting up the application

Prerequisites

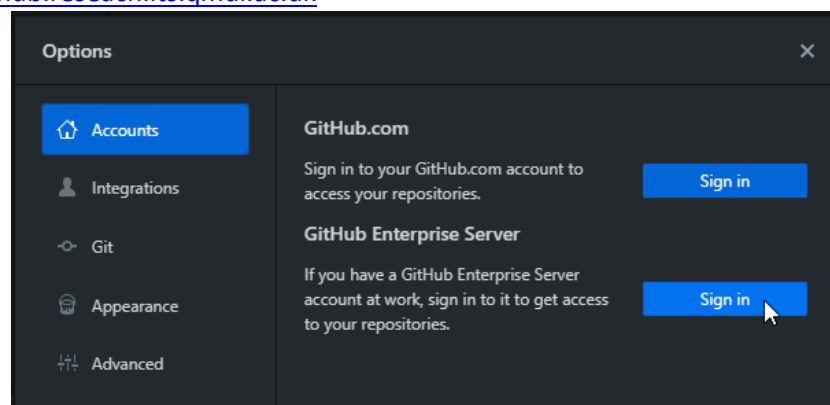
1. GitHub Desktop – GitHub Desktop is available on Windows and Mac OS. It provides a GUI for interacting with git. The application is not required if you are proficient with git.
<https://desktop.github.com/>
2. XAMPP – XAMPP is an application available on Windows, Mac OS and Linux. It provides us with a stack of different tools we can use. It currently allows you to run Apache (A type of web server), MySQL Server, PHP, and Perl.
<https://www.apachefriends.org/index.html>
3. Composer – Composer is a package manager for PHP. You might need this to clear the cache in the application or to generate keys used to sign authentication tokens.
<https://getcomposer.org/>

1. Installing GitHub Desktop

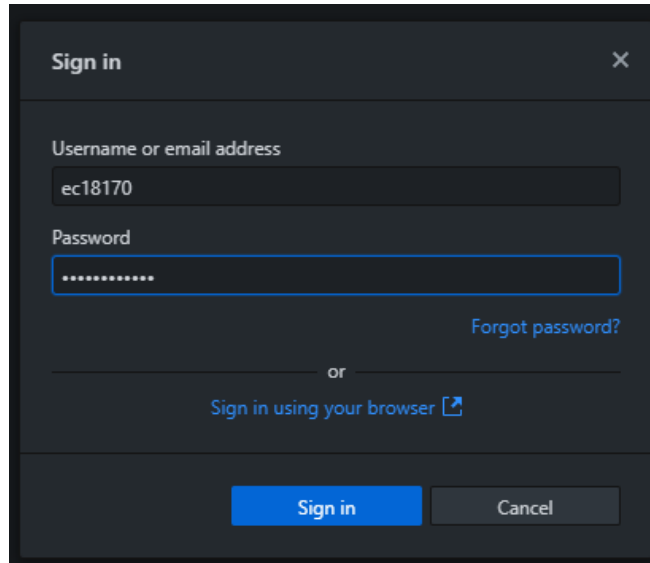
1. Download GitHub Desktop from <https://desktop.github.com/>
2. Install it.
3. Once installed, access the Options panel by using the File menu in the toolbar.



4. Sign in to the QMUL GitHub Enterprise server by using the following button. Insert <https://github.reseach.its.qmul.ac.uk>



5. Enter your credentials and sign in.



A dark-themed 'Sign in' dialog box with a close button (X) in the top right corner. It contains two input fields: 'Username or email address' with the text 'ec18170' and 'Password' with masked characters '*****'. A 'Forgot password?' link is to the right of the password field. Below these fields is an 'or' separator and a link 'Sign in using your browser' with an external link icon. At the bottom are 'Sign in' and 'Cancel' buttons.

2. Installing XAMPP

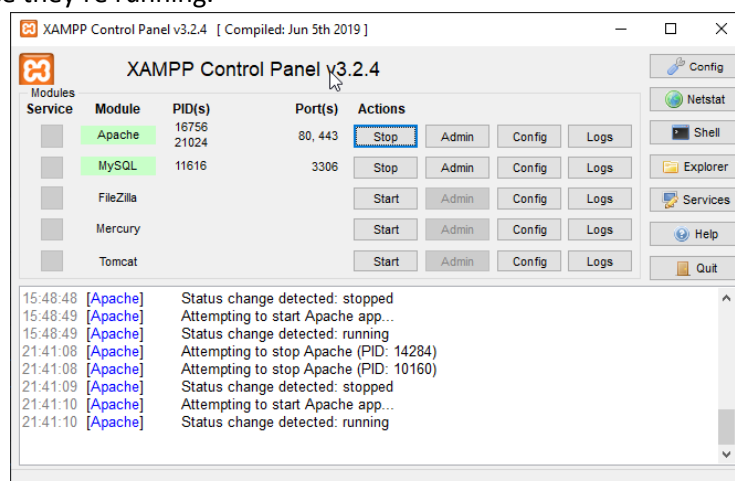
1. Download XAMPP from <https://www.apachefriends.org/index.html>
2. **Run the installer as administrator and install.**
3. Launch XAMPP

3. Installing Composer

1. Follow the steps here. There is an installer made for Windows.
<https://getcomposer.org/download/>

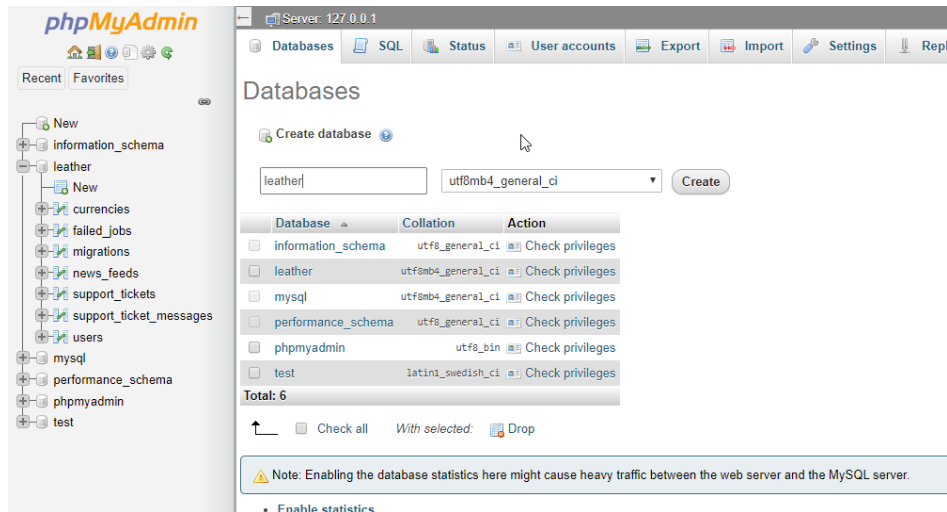
4. Creating MySQL database

1. Open the XAMPP control panel and start the Apache and MySQL services. The modules should turn green once they're running.



2. Navigate to <http://localhost/phpmyadmin> in your browser.

- Click on the Databases button and create a database called 'leather'.



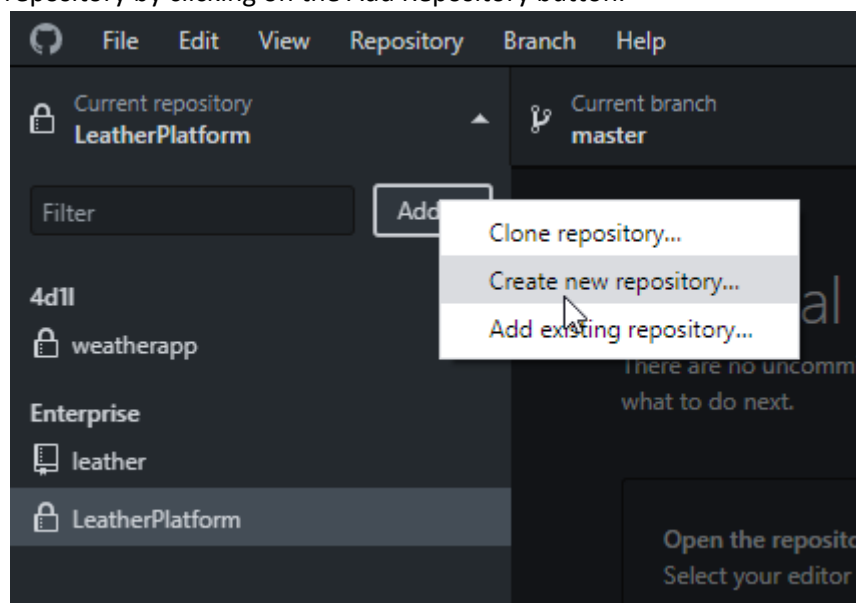
5. Enabling GMP (PHP)

GMP is a PHP extension that allows the Blockcypher API to sign transactions on the server. It is not enabled by default in XAMPP.

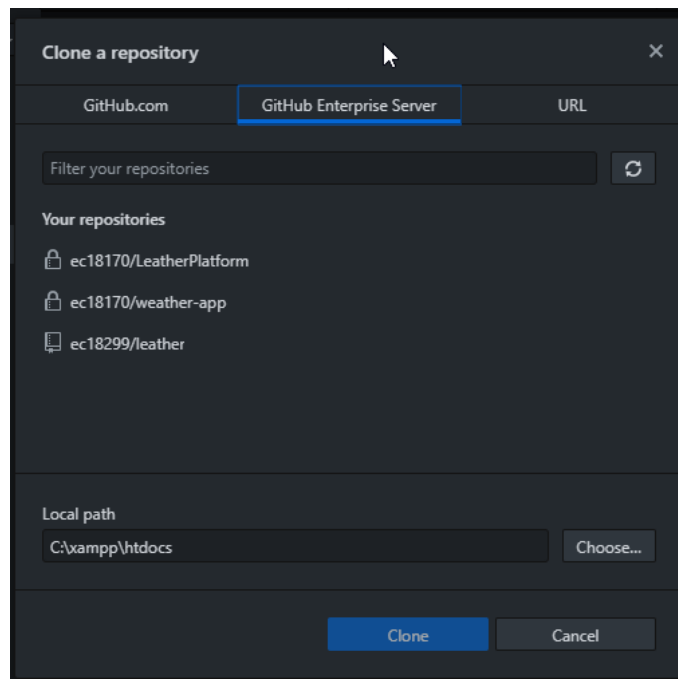
- Open the XAMPP control panel.
- Click on the "Config" button on the Apache row.
- Click on **PHP (php.ini)**.
- Search for **"extension=gmp"**
- Once found, remove the semi-colon that the line starts with.
- Save the file and then restart Apache.

6. Cloning the repository (GitHub Desktop)

- Clone the repository by clicking on the Add Repository button.



- Click on **GitHub Enterprise Server** and select the repository. Set the path to wherever XAMPP is installed with /htdocs appended to the end. XAMPP serves pages out of the **htdocs** directory.



- Let the repository clone

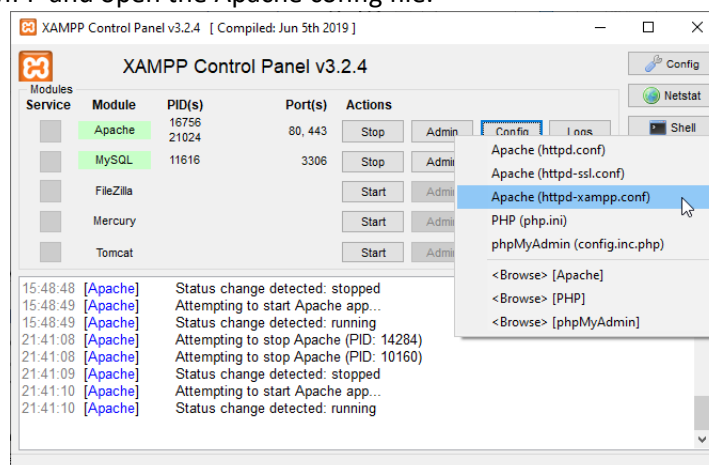
7. Configuring XAMPP

These additional steps are required so you can access project directly without having to go through intermediaries. This section is tailored for Windows but I'm sure there are posts on the internet detailing the methods for other operating systems. You want to be searching for "**Virtual Hosts XAMPP Set Up**".

- Navigate to the hosts file which is usually located in C://windows/system32/etc/drivers/
- Add the following line:

127.0.0.1 leather.platform

- Save and close the hosts file.
- Then, open XAMPP and open the Apache config file.



5. Add the following to the end of the config file. The part in bold is the directory where you have cloned the repository. The /public denotes the public folder in the repository where the app is served from.

```
<VirtualHost *:80>
    DocumentRoot "c:/xampp/htdocs/LeatherPlatform/public"
    ServerName leather.platform

    <Directory "c:/xampp/htdocs/LeatherPlatform/public">
        Options Indexes FollowSymLinks Includes ExecCGI
        AllowOverride All
        Require all granted
    </Directory>

</VirtualHost>
```

8. Installing Dependencies

1. Open the repository in your favourite text editor.
2. Open Powershell/command line/terminal and navigate to the repository location.
3. Run "**composer install**" to install the dependencies.