# BIMS - CS 490 Capstone Fall 2021

## **Local Development Environment Setup**

This guide is meant to assist in setting up the local development environment for the BIMS web application.

NOTE: The BIMS web application is an ongoing project still in development.

#### **Development Environment Setup**

#### Setting up your local environment:

- 1. Install XAMPP Version 7.4.23 or above. Download: https://www.apachefriends.org/download.html (\* Note that XAMPP contains the database administration tool, phpMyAdmin, for MariaDB and MySQL.)
- 2. Install Visual Studio Code. Download: https://code.visualstudio.com/download

#### XAMPP FAQs:

- Mac: https://www.apachefriends.org/faq\_osx.html
- Windows: https://www.apachefriends.org/faq\_windows.html

#### Visual Studio Code Installation Manual:

- Mac: https://code.visualstudio.com/docs/setup/mac
- Windows: https://code.visualstudio.com/docs/setup/windows

#### Installation of the BIMS Codebase on your local machine:

- 1. Download the source code ZIP file from GitHub: https://github.com/prichard38/BIMS
- 2. Open XAMPF
- 3. In [General] tab of XAMPP panel, click [Start] button.
- 4. In [Services] tab of XAMPP panel, select Apache and click [Start]. Then select MySQL and click [Start].
- 5. In [Network] tab of XAMPP panel, select [localhost:8080->80(OverSSH)] and click [Enable] button.
- 6. In [Volumes] tab of XAMPP panel, click [Mount] button.
- 7. Un-compress the source code zip file, BIMS-main, in XAMPP's htdocs directory (usual folder path: /opt/lampp/htdocs). If you cannot find the folder, click the [Explore] button in the [Volumes] tab of XAMPP panel. You will be moved to lampp directory and can find the htdocs folder. It is suggested to rename the folder from BIMS-main to BIMS.
- 8. Now you are ready to use it. You can access the web application by typing in the web browser http://localhost:8080/BIMS/login.html (The port number 8080 may be different depending on the MAMP setting.)

### Installation of the BIMS Database and Procedures on your local machine:

- 1. With XAMPP services started (see steps 2 5 above), navigate to phpMyAdmin in your web browser by entering the url localhost8080/dashboard, or just simply localhost8080, then clicking on [phpMyAdmin] in the top nav bar.
- 2. Inside phpMyAdmin, click on [Import] in the top nav bar.
- 3. Click the [Choose File] button. Navigate to the directory /opt/lampp/htdocs/BIMS-main/SQL\_localhost and select the file BIMSdb.sql to attach.
- 4. Click the [Go] button. This will build the BIMS database structure and fill it with test data.
- 5. Repeat steps 1 and 2
- 6. Click the [Choose File] button. Navigate to the directory /opt/lampp/htdocs/BIMS-main/SQL\_localhost and select the file Procedures.sql to attach.
- 7. Click the [Go] button. This will build create the stored procedures in your database.

Now you may open the directory /opt/lampp/htdocs/BIMS-main in Visual Studio Code and begin development.