

Setup instructions

You will need the following for the workshop:

- (1) Docker to set up the MySQL server
- (2) A MySQL server installed on your PC/laptop
- (3) DataGrip (a database IDE)
- (4) FastAPI on Python
- (5) The starter code for the Android app to be used in the workshop, from https://github.com/naffins/infosysPlus_android_workshop_starter

Docker/MySQL server setup instructions

First, install Docker (macOS/Linux) from <https://docs.docker.com/get-docker/>.

For Windows, you may need WSL 2 for this; see <https://docs.microsoft.com/en-us/windows/wsl/install>.

The MySQL server is set up using the `sql_docker/docker-compose.yaml` file in the above repository. We will do so during the workshop.

DataGrip

Install DataGrip from <https://www.jetbrains.com/datagrip/download/>. You can use your JetBrains student account to obtain a license for this software if you set up one already.

Setting up FastAPI on Python

Create a virtual environment: `python -m venv env`

If your system has differentiated binaries for Python 2 and 3: `python3 -m venv env`

Enter the virtual environment

Windows: `.\env\Scripts\Activate.ps1` (on Powershell)

Linux/macOS: `source env/scripts/activate`

If everything is correct, you should see a `(env)` at the beginning of the terminal STDOUT.

Install dependencies: *pip install "fastapi[all]"*

Setting up the starter code

Import the StudentRegistry folder in the repository. This is the root of the Android app.

The application is based on Android API 30. You may need to download this if you have not done so before.

To test the code, run the app on your Android phone or on an emulator with API ≥ 30 . The app should (hopefully, since I tested it already) not break and all the buttons should work without crashing, even though most are not exactly functional yet.