**Code with Annotations**

DIGITAL SOLUTIONS IA2 ⏐ CAITLIN PETT ⏐ 2024 ⏐ YEAR 12

**Introduction**

This Document contains the annotated code to create the QPC website. Python, HTML, JavaScript, CSS, and SQL languages were used to create the page, and it was written on the code editor Visual Studio Code. White space is minimised to fit code in 4 pages.

1. **Python Flask project structure (viewed in VSCode)**

A black screen with white text

Description automatically generated

/static – images and CSS

/templates – the html web pages inc. JavaScript and jinja code

/\*.py the service side python code (app.py is the primary file)

/requirements.txt the additional python libraries

/QPC.db the sqlite database

/DATA the downloaded csv gov data

1. **Application File**

App.py contains the server-side python code that does not create any physical elements to the website, but instead listens to the http requests from the web pages. The code uses the Python Flask framework to setup routes for each request the website can do (coded elements). The routes process the requests such as a GET and POST by performing the business logic such as validation and storing the data in the database.

1. **Importing Data Files**

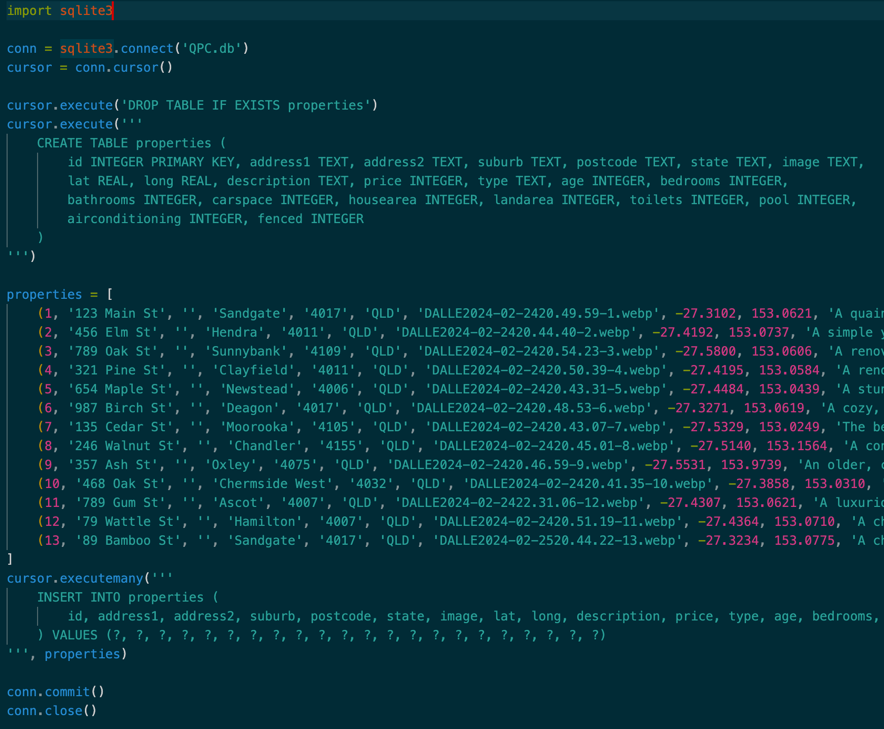
These files use python to create the tables in the QPC database, and add data when relevant, each file represents the creation of a new table. Only two files have been shown. Firstly importbus\_stops.py, which takes the data given in the technical proposal, creates a bus\_stop table, and inserts the data into there. The same logic is used with the importschools.py file, except it creates the schools table and inserts the schools data.

1. bus\_stops table: importbusstops.py. Code annotations are in grey within the screenshot for this file.

A blue text on a dark background

Description automatically generated

1. properties table: importproperties.py. The same logic is used to create the properties.

A small differences is that this file inserts data written within the file into the table, shown here. All the data did not fit within the screenshot, but it simply extends further to the left, inserting the required data.

All the data is fictional created by \_\_\_ and is not relevant to this document.

REST OF DATA

