DayFlow

Software Deployment Plan

[Latest update: 2023-13-1]

1. System Requirements

Python:

Linux, Windows 8 and newer for Python 3.10, FreeBSD 10 and newer, macOS Snow Leopard (macOS 10.6, 2008) and newer

SQlite:

SQLite is a lightweight and self-contained SQL database engine that can run on various operating systems. According to the SQLite documentation, SQLite does not have any specific minimum OS requirements. However, some features of SQLite may depend on the OS version or the file system. For example, SQLite uses memory-mapped I/O for improved performance, but this feature requires a 64-bit OS and a file system that supports sparse files.

*BSD, iOS, Linux, Mac, Solaris, VxWorks, and Windows (Win32, WinCE, WinRT)

Python Library PyQt 5:

Qt does not have any specific minimum OS requirements. However, some features of Qt may depend on the OS version or the file system. For example, Qt Quick 2, which is a framework for creating fluid and dynamic user interfaces, requires OpenGL (ES) 2.0, DirectX 9 or 11 (with ANGLE), or an alternative renderer

The approximate minimum hardware requirements for running Boot to Qt are:

256 MB of RAM

500 MHz CPU, 1 GHz preferred for 60-FPS velvet-smooth UI

OpenGL ES 2.0

2. Deployment Strategy Summary

The program is a Python-based executable file that can be installed by downloading it from Google Drive and opening it. It does not require any additional setup or packages, as it uses PyInstaller to create a standalone application.

3. Installation Package Contents

- Python3.10
- Sqlite3
- Pyqt5

3.1 Required source or compiled files

- main_ui.py -run the main user interface
- create_event_popup.py -run the create event popup interface
- export_event_popup.py -run the export event popup interface
- export_events.py -exports the event into a csv
- search_engine.py -look up for the event in the database file
- user_input_validation.py -verify the user input
- all_classes.py -make file recognize needed classes in python
- sqlite_demo.py -to manage our sqlite database

3.2 Required third-party components

-(nothing required)

3.4 Required graphical assets, configuration and other non-program files

-(nothing required)

3.5 Documentation files to be provided

- Installation instructions (User_Guide)
- User manual (User_Guide)
- Troubleshooting guide (User_Guide)

3.6 Development files and components that must be excluded

- .gitignore
- All document files and the directory
- All Project_Materials files and the directory
- All quality files and the directory
- build directory
- dist directory

- .pycache

4. Additional Code Required for Deployment

-(nothing required)

5. Deployment Tasks

Step 1: Make sure all required packages are installed (**Stated in 3. Installation Package Contents**)

Step 2: Run the the main_ui.py file in python and make sure there are no errors.

Step 3: Use pyinstaller to convert the python file into one executable file in the main_ui.py directory (.../day_flow/src)

Windows : [**pyinstaller --onefile --windowed --add-data "Database/eventDB.db:." main_ui.py**]

Linux: [**pyinstaller --onefile --windowed --add-data "Database/eventDB.db:." main_ui.py**]

Step 4: Run the exe file in the folder

Step 5: Use the functional test plan to test the program, making sure all the functionality is working

Step 6: Delete any unused or unneeded files during the development task

Step 7: Repeat this on other operating systems (Linux, Windows)

6. Deployment Test Plan

For Windows and Linux

Step 1: Download the zip file from google drive link

Step 2: Unzip the folder

Step 3: the main_ui.exe file

Step 4: Refresh the folder to see if the eventDB.db appears in the same folder

Step 5: Try running the program hit on export button to see whether the export folder appear

Step 6: Test on different operating systems (windows and linux)