DayFlow

Software Deployment Plan

[Latest update: 2023-11-1]

1. System Requirements

(Supported os for sqlite3 library for python)

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)

(Supported os for PyQt5 library for python)

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** support **

*** On GPU-less hardware, Qt Quick 2D Renderer can replace the OpenGL ES 2.0 requirement (with some limitations on graphics capabilities).*

(Supported os for python)

Windows 8 or above, Linux , and Mac OS

(Supported platforms on Python 3.7 and 2.7)

Linux, Windows 8 and newer for Python 3.9, FreeBSD 10 and newer, macOS Snow Leopard (macOS 10.6, 2008) and newer

2. Deployment Strategy Summary

Our group decided to use github to deploy our application. Creating a new repository, The application provides a clear README.md file illustrating how to run the application.

3. Installation Package Contents

- Python3
- Python (optional)\
- Git or Github desktop
- Sqlite3
- Pyqt5

3.1 Required source or compiled files

- sqlite_demo.py file to create a database
- search_engine.py file to look up for items in database
- main_ui.py file for the main user interface.
- export_events.py for exporting events
- create_event.py for creating events

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

- README.md
- Installation instructions
- Release notes
- Mitigation guide
- User manual
- Software reference
- Troubleshooting guide

3.6 Development files and components that must be excluded

- .gitignore
- Coding_Standards.pdf
- PersonalCalendarComments.txt
- TeamA - Lab6Report.pdf

- TeamB - Lab6Report.pdf
- Use_Case_Narrative.pdf
- All Project_Materials files and itself
- All quality files and itself

4. Additional Code Required for Deployment

Git (Command) or Git Graphic user interface

5. Deployment Tasks

Step 1: Create our deployment repository

Create a new repository in github set public and set up github configurations

Step 2: add README.md File including:

a) Minimum requirements for Linux and Window

b) How to run our project

Step 3: Add source code repository and all our source code

Step 4: Add make file into the repository

Push makefile for Windows and MacOS

Makefile contains: python installation, pyQT5 installation, Sqlite installation.

Linux

i) Python3 - sudo apt install python3

ii) Sqlite3 - sudo apt-get install sqlite3

iii) pip installation - sudo apt-get install python3-pip python-dev

iv) pyQT5 - pip install PyQt5

Window - no need makefile

i) Python3 - Search on internet browser for installing python

ii) Sqlite3 - (https://www.sqlite.org/download.html) and choose (sqlite-tools-win-x64-3440000.zip) **[And add environment path to sqlite3.exe]**

iii) pip installation - python get-pip.py

iv) pyQT5 - pip3 install pyqt5

Step 5: Testing

6. Deployment Test Plan

Step 1: Uninstall necessary python libraries (eg. sqlite3)

Step 2: Remove the local application directory

Step 3: Use git to pull the application directory back

Step 4: Follow README.md instructions

Step 5: Run the script file or install dependencies manually

Step 6: check the dependencies installation (eg. $pip show pyqt)

Step 7: Switch to another platform (if any) and follow step one to six again

Step 8: Run the application