**LaunchPad QT Application**

**Application Features and Pointers:**

* LaunchPad is built in QT C++ and QML.
* The development started as a sample that is why the name of the QT project file is CarSample. However, the application deployment executable is with the name **LaunchPad.exe**
* The project is a basic application which can help in running the following processes on the computer:
  + **Internet Explorer**
  + **Windows Media Player**
  + **Navigation**: A few pointers on Navigation app:
    - Only a static map visible because there is no GPS input available with me for routing and location changing. I tried simulation using nmea log file but could not do it successfully.
    - OSM has been used as the map plugin
    - Geocoding was tried to change position on map but could not be done successfully.
* **My Computer**
* **Apps**:
  + **Calculator**
  + **Paint**
  + **Notepad**
  + **Camera**: This is a pause/capture camera I implemented in QT. The app accesses the camera of the laptop and user can pause the streaming at a point and then capture the image. And the image can be saved in a local location.
* **Control Panel**
* **Text to Speech engine feature of QT** has been embedded in the application which will tell the user the name of the process related to current button press on the event. QT does not have a Voice Recognition module otherwise I was planning to launch apps using Voice Commands.
* There are three four pages in this applications as under:
  + **Main Page:**Contains the main application launch buttons. Built totally using QT Widgets.
  + **Apps Page:**Contains the apps launch buttons. Built totally using QT Widgets.
  + **Camera Page:**Contains the camera form for capturing images. Built totally using QT Widgets.
  + **Navigation Map:**Contains the map position for **Brisbane.**This page has been designed in QML.

**Application Deployment:**

A zip file with the deployment files for Windows has been uploaded on Github. Please download it and follow the below mentioned steps to deploy and run application on any Windows computer:

1. Unzip LaunchPad.7z file
2. Run LaunchPad.exe from the folder

This should run the application successfully with all features working end to end.

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