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NEXUS\_Project3

Title: Childhood Asthma Prediction

Steps to run this project:

1.Preinstalled Python: The laptop must have Python installed. If Python is not already installed, download and install it from the official Python website ([https://www.python.org/). (Python](https://www.python.org/).%20(Python) 3.9)

**Qt:**

* It is a [widget toolkit](https://en.wikipedia.org/wiki/Widget_toolkit) for creating [graphical user interfaces](https://en.wikipedia.org/wiki/Graphical_user_interfaces) as well as [cross platform](https://en.wikipedia.org/wiki/Cross-platform) [applications](https://en.wikipedia.org/wiki/Application_software) that run on various software and hardware platforms.
* Most GUI programs created with Qt have a native-looking interface, in which case Qt is classified as a [widget toolkit](https://en.wikipedia.org/wiki/Widget_toolkit). Non-GUI programs can also be developed.

**PyQt5:**

* It is the latest version of a GUI widgets toolkit developed by Riverbank Computing.
* It is a Python interface for Qt, one of the most powerful, and popular cross-platform GUI library.
* PyQt5 is a blend of Python programming language and the Qt library.

2. Qt Designer Installed: Ensure Qt Designer is installed on the laptop.It can be installed as shown below:

* Python IDLE 3.9 should to be installed on your system.
* Go to command prompt and type🡪 pip install PyQt5
* Run command pip install PyQt5-tools to install Qt Designer.
* Go to search bar and find designer. If designer is not prompted, then go to the appdata folder in c drive and start the designer.
* C:\Users\XYZ\AppData\Local\Programs\Python\Python39\Lib\site-packages\qt5\_applications\Qt\bin

A screenshot of a computer

Description automatically generated



Once Python and Qt Designer are installed, follow these steps to run the project:

* Open Python Idle or Preferred IDE
* Open the Project Files
* Open the Main Python File
* Run the Python File
* Input Symptoms: Once the application window appears, input the symptoms for prediction into the appropriate fields.
* Predict Asthma: Click on the "Predict" button
* View Result