**Technology Review**

Some of the modern GUI languages are C#, Python, C++, and Java. C# is mainly used for windows applications, while Python, C++ and Java are cross-platform. These languages have different frameworks that helps with the development of the user interface, for instance Python has Tkinter, PyQt5 and Kivy, each of these frameworks have its advantages when developing an UI, being Tkinter the most popular one due to its level of customization. For C++ we can find Qt, wxWidgets, JUCE, CEGUI, and CEF. For Java we can use AWT, Swing and JavaFX, being JavaFX the most popular one nowadays, while AWT and Swing are more of a legacy framework.

We have also to consider the IDE (integrated development environment) of each language, for C# we have Visual Studio which is without a doubt the best IDE for this language, its grab and drop system for the GUI part makes Visual Studio easy to use. For Python we have PyCharm which is perfect for testing and for uploading the code to GitHub. And for the other languages Visual Studio Code can be used as it is relatively easy to use and support several programming languages.

For storing the data, we have several options such as MySQL, Microsoft Access and OpenOffice Base, the main difference between these databases is that MySQL and Microsoft Access are paid options (MySQL does count with a community version) and OpenOffice Base can be used for free. Another difference is that MySQL is open source while Microsoft Access it is not.

As we can see in the Acta inform article (Mehrdad Farzandipour, Ehsan Nabovati, Gholam, Hosein Zaeimi, Reza Khajouei, 2018), the articles states what are the barriers for information systems apps in the healthcare field, and as we can see the highest rate problems were visibility and lack of help, which could be caused by the lack of a training video. With my project I pretend to create a correct guide of how to use the forms to solve the usability problems.

[Top 10 Programming Languages for Desktop Apps In 2021 (decipherzone.com)](https://www.decipherzone.com/blog-detail/top-programming-languages-for-desktop-apps-in-2021)

[Top 10 Python GUI Frameworks for Developers | by Claire D. Costa | Towards Data Science](https://towardsdatascience.com/top-10-python-gui-frameworks-for-developers-adca32fbe6fc)

[5 Cross-Platform GUIs for C++ (dice.com)](https://insights.dice.com/2016/11/18/5-cross-platform-guis-for-c/)

[Java GUI Frameworks Guide - CodersLegacy](https://coderslegacy.com/java-gui-frameworks-guide/)

[MySQL :: MySQL 8.0 Reference Manual :: 1.2.1 What is MySQL?](https://dev.mysql.com/doc/refman/8.0/en/what-is-mysql.html)

[Usability Evaluation of Three Admission and Medical Records Subsystems Integrated into Nationwide Hospital Information Systems: Heuristic Evaluation (nih.gov)](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6029901/)