1.7 Technologies used

Name	Description	Justification	Responsibilities	Website
C Programming Language	C is a general-purpose programming language. It provides low-level memory access, structured programming constructs, and is widely used for system software, embedded systems, and performance-critical applications.	C is widely adopted for open-source projects for its portability. Its efficiency aligns with our goal to deliver a text-editor with optimal performance.	• Defining software logic • Managing memory • Facilitating interaction between hardware and other software components	https://en.wikipedia.org/wiki/C_(programming_language)
GNU Toolchain	The GNU Toolchain is a collection of open-source programming tools used to develop software.	It provides a reliable set of tools. The ones concerning our project are the C compiler (GCC), the debugger (GDB) and the build system (Make). It makes our project more accessible to open-source contributors, who are already familiar with the toolkit.	• Compiling source code into executables • Debugging applications • Automating the build and installation process	https://en.wikipedia.org/wiki/GNU_toolchain
GTK	GTK is an open-source library used for creating applications that have graphical user interfaces. It supports multiple platforms and languages.	It allows for cross-platform compatibility, good performance and is open-source.	• Handling user interaction with the application • Integrating GUI with the application logic	https://www.gtk.org/
GitHub	GitHub is a web-based platform for version control and collaborative software development using Git. It allows developers to host repositories, track changes and collaborate in teams.	GitHub allows for collaborative development. Because Github is widely recognized in the software development community, hosting a project there increases its visibility.	• Hosting the project code • Tracking version history • Facilitating team collaboration • Tracking team members contributions to the code	https://github.com/about
Draw.io	Draw.io is a diagramming tool for creating flowcharts and UML diagrams.	It provides a simple and free way to create diagrams. It is open-source.	• Offering a simple and effective way to design diagrams	https://www.drawio.com/about
LibreOffice Writer	LibreOffice Writer is a free and open-source word processor.	It's free and open-source. It has all the features of a modern word processor.	• Allowing the team to create, edit, and format text documents, including reports, artifacts and technical documentation.	https://www.libreoffice.org/discover/writer/

LibreOffice Calc	LibreOffice Calc is a spreadsheet program.	It’s reliable, free and open-source	• Allowing to visualize completed and scheduled tasks in a single spreadsheet	https://www.libreoffice.org/discover/calc/
Discord	Discord is an online platform that allows users to create groups and streamline communication.	Many team members were already familiar with its usage.	• Offering a platform for the team to communicate, and for the Project Manager to assign tasks	https://discord.com/company