* **Expected Outcomes**

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* Fully functional desktop program demonstrating end-to-end workflows.
* Well-documented OOP code with clear module separation.
* UML diagrams, data dictionary, API descriptions and user guide.
* Concise overview of development journey and system demo with all Source code hosted on GitHub.
* **Conclusion**

By developing RedCell, we will achieve practical experience in OOP design, lightweight database integration using SQLite, and GUI development—while solving a vital challenge in healthcare. This system promises to improve blood bank efficiency, transparency, and responsiveness, making a meaningful impact on patient care.