

CASE STUDY



THE FUTURE OF FAMILY PLANNING:

Precision, Technology, and Hope



OVERVIEW



A healthcare software designed to simplify egg cell fertilization, using special lasers to **assist doctors during treatments.** The project mainly focuses on developing assisted reproductive technology (ART). It also introduces a high-tech microscope into fertility clinics, aimed at making the process more accurate and increasing the chances of success.



Functional Validation

Ensuring the microscope's capabilities met the rigorous demands of egg cell fertilization.



UI/UX Enhancement

Refining the user interface to optimize interactions for medical professionals.



Localization Testing

Ensuring the software's language translation was flawless, enhancing accessibility for global use.



Boundary Scenario Exploration

Delving into the limits of the microscope's performance to uncover unforeseen outcomes.



Feature Coverage Assurance

Verifying that every aspect of the microscope was thoroughly tested against the detailed test protocol.

● IMPLEMENTATION



In this healthcare project,
our focus was on thoroughly testing a multifunctional microscope equipped with lasers and various modules, all controlled by a dedicated desktop program. Our efforts ensured the equipment met the necessary standards for medical use,
enhancing its functionality and user experience.

● STEP-BY-STEP IMPLEMENTATION

- 1** Conducted comprehensive tests on the microscope and its controlling desktop program.
- 2** Utilized remote administration tools to interact with the microscope in a real lab setting.
- 3** Engaged in daily sync meetings for effective communication and coordination of tasks.
- 4** Worked closely with medical professionals for the setup and execution of specific tests.
- 5** Explored the product's UI/UX, providing feedback from a user perspective.
- 6** Performed localization testing to identify language translation issues.
- 7** Investigated and documented boundary scenarios and unforeseen outcomes.



● UNIQUENESS OF THE PROJECT



An uncommon aspect of this project was **the necessity for nearly constant collaboration** with a laboratory assistant due to the intricate setup required for testing, including adjusting lasers, cameras, and other modules. Despite the challenges of remote work, our team managed to maintain a coherent and productive workflow. The project's success was marked by a meticulous **testing process that covered everything from laser calibration to digital image processing.**

● TANGIBLE RESULTS FOR THE CLIENT



Localization Excellence

Addressed and rectified interface translation issues, achieving comprehensive application localization



Critical Bug Identification

Documented functional bugs, GUI flaws, and compatibility issues, notably with cross-platform operation between Windows 10 and Windows 11



Enhanced Testing Coverage

Updated and refined test cases, uncovering previously untested product features



Edge Case Documentation

Registered unexpected behavior and edge cases, contributing to a robust improvement strategy



Comprehensive Test Reporting

Delivered an exhaustive final test report, summarizing objectives, methodologies, and findings



SOLUTION

TESTING TYPES:

Ad-hoc

Exploratory

Acceptance

Functional

Localization

Usability

Cross-platform

UI/User Interface

TESTING TOOLS:

Mantis

TeamViewer

Snagit

Microsoft Teams



● CONCLUSION

In this adventure, every exact pixel and code we scrutinized was more than a task—it was a leap toward the future and family dreams. With QATestLab's accurate technologies - the client received improved and sophisticated software.



Partner with QATestLab for the Innovation and Cutting-edge Solutions 💡

