

Problem Statement

- Dermatologists face challenges in early skin cancer detection and dermatological condition management due to outdated, non-interoperable imaging systems.
- FotoFinder addresses limited device compatibility, lack of advanced analytics, and inefficient patient data management with a cloud-based AI-powered imaging platform.

Solution

- FotoFinder optimizes patient care, diagnostics, and data security. It is a cloud-based imaging platform for dermatology, enhancing early skin cancer detection and management.
- It addresses consolidated patient views, device compatibility and advanced analytics providing dermatologists with cross-platform access, AI-driven image analysis, a detailed patient timeline, and mole-tracking.

Benefits of our solution – how it helped in BET

- ★ FotoFinder improves clinical outcomes by enhancing diagnostic accuracy, retaining patients through advanced tools, and enabling precise treatment planning. It reduces expenses with cloud-based cost savings, streamlined workflows, and error minimization. Revenue grows via premium AI-driven services, an expanded patient base, and cross-selling opportunities like combining dermatology with aesthetic treatments, transforming patient care and business efficiency in dermatology practices.
- ★ FotoFinder addresses the significant challenges dermatologists face in early skin cancer detection and the effective management of dermatological conditions due to outdated desktop-based imaging systems. These systems often lack interoperability, hindering consistent access to and analysis of skin images across various devices. Furthermore, the absence of advanced analytical tools limits diagnostic accuracy and treatment planning.

Challenges

- ✓ Migration of the existing WPF application to a cloud-based architecture.
- ✓ Ensuring healthcare domain compliance and data security.
- ✓ Integrating AI and ML for enhanced image analysis.
- ✓ **Offline Accessibility:** Users required app functionality in areas with poor connectivity.

Solution

- 💡 Developed a phased migration strategy, ensuring data integrity and system interoperability throughout the transition.
- 💡 Implemented robust security measures, including encryption and regular compliance audits, to protect patient data.
- 💡 Utilized existing AI frameworks and collaborate with data scientists to refine algorithms for better diagnostic accuracy.
- 💡 Designed the app to sync data offline, allowing users to perform tasks seamlessly even without an active network.

Technology Details

- 🖥️ **Backend:** ASP.NETcore, .NET framework 4.8, WPF, C#
- 🗄️ **Database:** SQL Server

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Screenshots

