Case Study

Judge | Consulting
SINCE 1970

Responsive Web Design Ensures Application Compatibility Across Handheld Devices

A healthcare franchise with over 1,000 providers was launching a new computer-based orthodontic treatment planning application that would enable dentists to use cone beam CT and optical scans to create 3D models of patient's teeth. However, the application needed to be configured for compatibility across all the provider's preferred handheld devices.

THE CHALLENGE
Developing a seamless application across multiple devices

The company needed to be able to take photos of various angles of patient's teeth easily and quickly using Intraoral scanners – devices that capture direct optical impressions in dentistry. They are a crucial component of modern dental practices, allowing for more accurate restorations and more efficient relationships with labs. Digital impressions also improve the patient experience by reducing chair time and enabling multiple systems to use these photos during a patient visit. Since the company's providers use different handheld devices, the application had to be compatible with and intuitive on numerous handheld devices, including iPads and Galaxy tablets.

THE SOLUTION
Responsive web design and user interface

The Judge Consulting team helped to plan, analyze, and design the new website. The team started collaborating with the organization's digital strategy team, building a plan that would be easily consumable across the organization while sparking conversations designed to uncover business requirements and delivery goals. Judge established a Software Development Lifecycle (SDLC) process to combine multiple work streams and helped the UX/UI team create the necessary project oversight. Implementation of the plan included Agile-based stories that captured the acceptance criteria using an INVEST story writing methodology, as well as a Jira-based project within the organization's task management system. Both Judge and the organization's technical teams designed high-fidelity Figmas that stubbed out the UX/UI experience for rapid consumption and implementation.

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As a result, office staff could point their preferred device at the patient to begin capturing all nine required angles for the patient's dental profile. The application then determined overlay guides and instructions with minimal manual navigation required by the user. Once the images were captured, the application pushed them directly to a shared server designated for that office, where the rest of the enterprise applications the office staff utilized could incorporate the images into their existing interfaces.

THE RESULT

Custom design and implementation of application

The volume of features delivered in the timeline was significant. Judge Consulting delivered the entire application (and an interim version) in one month, under budget, aligned to the project plan, and without flaws.

Seamless Application

The application provided a seamless end-to-end flow with minimal disruption during patient visits
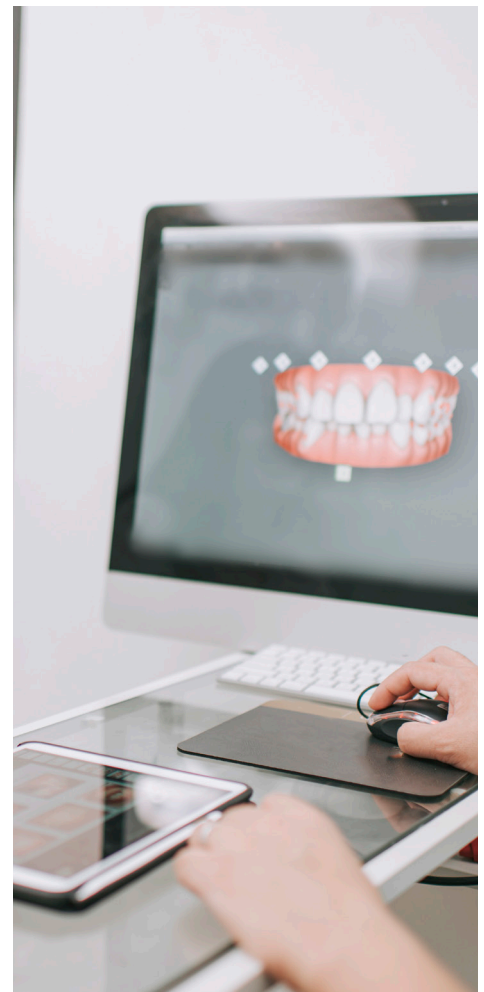
Device Compatibility

The application was compatible with various handheld devices, including iPads and Galaxy tablets

Rapid Delivery

Judge Consulting delivered the entire application in one month, under budget, and aligned to the project plane

Judge Consulting provides design and implementation of mini-applications to fill urgent custom system-to-system integration gaps.

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