MVP Development

SPECIALTY:
AI Clinical Decision Support
Infectious Disease

TIMELINE:
13 Month MVP
Continuous
Maintenance

pRxcision™

Prxcision is pioneering the first-ever AI platform for infectious disease, to dramatically improve antibiotic prescribing and dosing for critical infections in hospitals. The first-ever multi-tenant SaaS platform to integrate with multiple EHR systems, including EPIC and Cerner, enhancing patient outcomes and boosting hospital and payer financial results through personalized medicine.

CLIENT CHALLENGES

Prxcision needed an engineering partner to embed their clinical, scientific, and mathematical IP into a HITRUST-compliant, multi-tenant SaaS platform designed to:

- Seamlessly integrate into hospital EHR systems, for direct use by clinicians within their clinical workflows.

- Rapidly perform hundreds of thousands of complex calculations and simulations for each patient in just a few seconds, ensuring timely and accurate support to clinicians at the point of care.

- Harness and incorporate extensive scientific and clinical knowledge to prioritize outcomes and offer clinically relevant recommendations.

SOLUTION IDENTIFIED

- Built a cloud-based, multi-tenant SaaS platform offering extensive customization and personalization for each tenant.

- Developed a custom, powerful mathematical simulation engine for rapid completion of required simulations/calculations within seconds.

- Designed an intuitive user interface with capabilities for real-time data updates.

- Achieved seamless integration with major EHR platforms, initially EPIC and Cerner (covering 70% of the market), with flexibility for future expansion to additional EHR systems.

- Implemented a microservices architecture to ensure component-specific scalability and swift deployment, enhancing market readiness.

- Utilized Azure-managed services to ensure security, scalability, high availability, and cost-effectiveness, enabling HITRUST compliance.

KEY SUCCESS FACTORS:

Timely multi-continent collaboration

Experience with multi-tenant SaaS platforms

Deep expertise in EPIC and Cerner EHR integration

Configurability and dynamism across tenants, facilities, and users

HITRUST compliance

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KMS Healthcare epitomizes excellence in healthcare technology, surpassing all expectations. Their relentless commitment and innovative approach continually elevate our collaboration, enriching our venture with invaluable insights. KMS reaffirms our confidence in our partnership, solidifying their position as our trusted ally.

- Prxcision, Inc. Co-founder and CEO

CONCLUSION

At Prxcision, the cause is clear: to save lives and alleviate the burden of infectious disease. Thanks to their partnership with KMS Healthcare, they've developed an advanced AI platform. This collaboration has enabled the deployment of the pRxcision™ platform successfully in its first hospital, marking entry into the market and laying the groundwork for future growth and success.

kms-healthcare.com