Client Requirements

Client is a leading provider of clinical research services to hospitals, pharmaceutical and life sciences companies. Client needed a secure, cloud based platform that would greatly reduce time to market for its site feasibility, site selection, recruitment and study start-up programs.

Given its expertise in clinical research workflows, integration standards, cloud computing and analytics technologies, CitiusTech was selected by the client to design and develop a comprehensive site feasibility and recruitment platform.
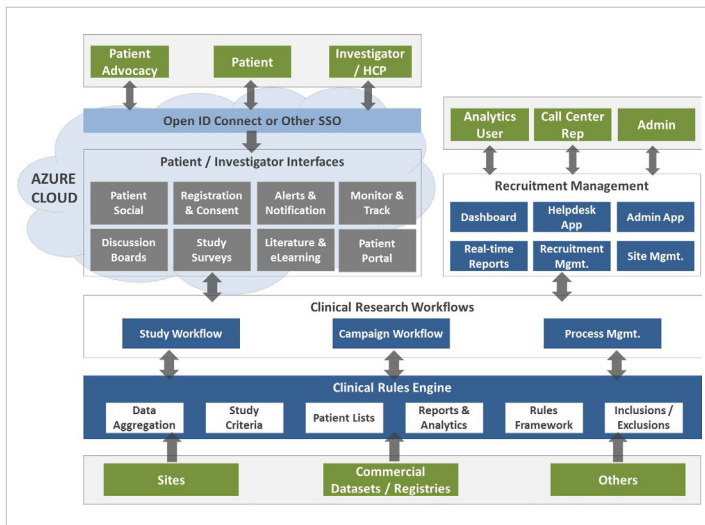
Key Features Required

- Study Set Up, Initiation and Management
  — User management, role based access provisioning and sponsor management
  — Site feasibility assessment and site selection analysis based on forecasted patient enrollment, study completion estimates and associated risks and benefits
  — Execute marketing campaigns, drive recruitment and build patient outreach programs using integrated call center, mobile apps, QR apps and social media (blogs, online communities, etc.)
  — Configure clinical inclusion / exclusion criteria for patient screening
  — Leverage dynamic, real-time reporting for patient tracking, marketing strategy effectiveness, investigator performance tracking and monitoring the study

- Investigator Web Interface
  — View, manage assigned patient lists and study processes
  — Set up appointments and record patient visits
  — Secure communication with patients
  — Enable interactive collaboration between investigators using Social Connect
  — Set up interactive knowledge library

- Patient Web Interface
  — View study related information, including appointments and visits
  — Manage secure communications with investigators and patients for engagement and education

Solution Design and Development

CitiusTech assembled a strong engineering team with expertise in MVC 5, Bootstrap, Azure and SQL 2014 and developed the platform based on proposed technology stack. The solution designed included -

- Custom built global solution hosted on cloud, based on Thinktecture authentication to streamline operations, automate outreach campaign tools to recruit patients and track responses, create customized apps to manage administrator requirements, site management, recruitment management, etc.
- .NET based customized apps for collaborative portals for internal and external stakeholders, time and event based alerts for patients and investigators / HCP
- Configurable custom built complex rules engine to support population identification and screening

Value Delivered

By partnering with CitiusTech, the client was able to:
- Improve operational efficiency and reduce time-to-market for site feasibility, selection and recruitment
- Leverage CitiusTech's strong healthcare experience for use case definition
- Lower development and deployment costs of applications on Azure platform
- Leverage analytics for enhanced decision making

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About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations, with over 2,700 professionals worldwide. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management. CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.

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