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SMART HEALTHCARE CLOUD INFORMATION SYSTEM

KEYWORDS: Java, Spring, Ruby on Rails, Python, Jenkins, Build Management

An advancing billion-dollar company, a leading healthcare information provider. It provides quality information on various healthcare plans and pricing. It uses a single cloud platform to deliver applications for corporate customers who wish to make smart choices and optimize annual medical expenses.

The assignment from the healthcare startup was to develop a sophisticated SaaS that provides personalized inputs to corporate users, on various healthcare products and plans that are available in the market. The service also equips corporates with decision making tools to make intelligent purchases. For perspective information, the service generates exhaustive reports from a combination of public and private sources, including HHS Health Data Initiative, Leapfrog, and NCQA. To measure effectiveness, Patient Satisfaction Data is extracted from companies like Vitals, Citysearch and other complementary data sources.

Engagement Model. The client was seeking a technology development partner, more than an offshore cost center. Its goal was to set up a full fledged India Development Center. Imaginea offered its product delivery experience to build the launch team and use its brand leverage to scale the team to a threshold, before the client takes over.

The Team. According to Imaginea model, the first task was to form the core team. This consisted of two principal architects, senior engineers, and an offshore delivery manager. An architect and a senior engineer were posted at client's office in San Francisco. This was essential for synchronizing and speeding up knowledge transfer to the offshore team. In addition, as the goal of the company was to set up

an India Development Center, Imaginea provided a dedicated human resources and administration team.

There were challenges with respect to training the India team on US regulatory requirements imposed by HIPAA and client's own commitment to its customers over privacy. An experienced team of 70 Imaginea engineers in Java, Ruby, Python, and database technologies, was trained by client mentors in those aspects.

The Work. The team developed an upgradable SOA platform that supported cloud applications like health plan product, employer product and mobile. Being an information delivery system, search and indexing was an important function. An advanced search criteria was built based on the Provider, Pricing and Classifier data, along with ranks for Pricing, Past Care, Rewards and Application Instrumentation.

Healthcare is highly competitive space in the US and completely driven by insurance pricing. To optimize the pricing module in the platform, the team implemented a robust engine that runs simulations using millions of pricing variables associated with different health plans.

Imaginea also augmented client's functional testing process with a custom test automated framework. The QA team now seamlessly runs a battery of tests to quickly uncover issues and exceptions.

The Outcome. The quality of US healthcare system is largely improved today due to information transparency and a more stable healthcare pricing model. As a result, employers and employees have access to tons of data that can help in taking a better decision. But they need an information and decision system, such as the one Imaginea built here, to leverage that, and save on healthcare expenses.

ABOUT IMAGINEA. Imaginea, erstwhile professional services division of Pramati Technologies, provides software engineering services to independent software vendors, Internet companies, and enterprises who are looking for reliable technology partners. Services stretch end to end, from interaction design to development, testing and cloud management. Imaginea is also a solution partner to emerging platforms such as Wavemaker™. For more information on Imaginea, visit www.imaginea.com.