

Application Re-engineering – On-Premise Healthcare Solution to Cloud Modernization

Objective

Legacy applications are a growing problem especially in the Healthcare industry, as many use healthcare organizations use old digital applications and infrastructure. With newer technology upgrades, IT teams majorly fail to implement the latest technology due to the nature of the legacy applications. Our client wanted to upgrade its infrastructure by offering digital and agile healthcare solutions to customer and wanted to modernize their healthcare applications. The client's business model and clinical processes were operating on legacy systems, and needed to be re-engineered for improving app performance, scalability and adaptability while reducing costs.

Challenges

- › Poor application performance
- › Lack of documentation support of on-premise solution
- › Tightly coupled application with complex solution architecture & redundant data
- › High booking time for scheduling appointments due to old application technology architecture

Approach

Rishabh Software's team analyzed the customer's existing applications which were used to manage daily healthcare operations and proposed to re-engineer the legacy applications by digitally transforming and migrating them to the cloud. We implemented Agile project management practices to ensure complete app modernization. The current system was following a 3-tier monolithic architecture with tightly coupled applications. Our team proposed to execute micro-services with MVC architecture to future-proof the current solution.

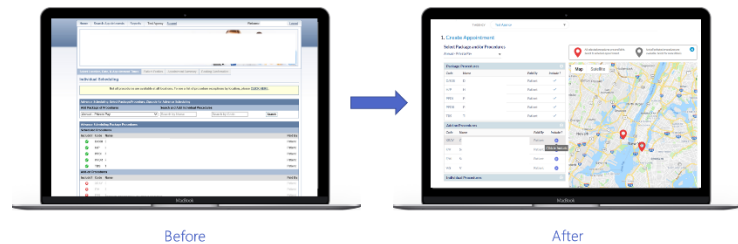
Re-engineering approach covered:

- › Technology Migration
- › Architectural re-structuring
- › Data Migration upon requirement basis
- › User Interface Modernization
- › Product Feature Enhancements

The project implementation team consisted of 7 members (3 Developers + 2 UI + 1 QA + 1 Project Manager) to modernize on-premise legacy app to cloud. The modernized solution reduced the appointment booking time from minutes to seconds and is now able to handle 5000+ bookings received each day across the US.

Business Benefits

- › Improved scalability, adaptability & maintainability
- › High application performance & responsiveness
- › Automated patient & employee training workflows
- › Better user experience with a minimalistic navigation structure
- › Enhanced modularity, security & scalability



Industry Segment

Healthcare

Customer Profile

US-based healthcare service provider focused on streamlining their services

Technology and Tools

- › MVC 5
- › Web API
- › Micro-services
- › Microsoft SQL Server
- › Microsoft Azure Cloud
- › Microsoft SSRS
- › Microsoft SSIS



About Rishabh Software

Rishabh Software is a CMMI 3, ISO9001, ISO 27001, Microsoft Gold Partner & Oracle Gold Partner providing application development services & solutions to mid-sized enterprises globally through our offices in the US, UK and India. We leverage the latest technology stacks in Cloud, Mobile, Business Intelligence and other Enterprise technologies helping clients to get the best value of their IT budget. With our team of 250+ application developers, we have implemented 1000+ successful projects across 24 countries. We work on .NET, Java, PHP, iOS, Android, Oracle, IBM and Open Source technologies.



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