



<http://www.chartfill.com/>

THE CLIENT

ChartFill Inc. is a U.S. based company headquartered in Rochester, New York. The company's business revolves around Patient Information collection methodology it and aims to streamline and automate access to relevant patient information generated outside of a facility. All requested information is retrieved, reviewed for quality, intelligently indexed and securely delivered in a timely fashion.

BUSINESS REQUIREMENT

ChartFill Inc. wanted a .Net based online portal with a Telerik reporting engine and FedEx shipping API integration. This portal would need to streamline and automate access to relevant patient information generated outside of a facility.

They wanted to host their application in an auto- scalable, redundant setup which would also take care of their automated backups and Disaster Recovery needs.

A streamlined Patient Information Management System that is integrated with Microsoft Azure

CHALLENGES

- To have a Multi-tenant solution deployed on a public Cloud platform to take care of data and application level redundancy
- To cover the communication gap between Hospital Physicians and ChartFill employees
- To provide a user-friendly and intuitive application with a modern design
- To eliminate the manual lookup into the National Providers Registry
- To automate the FedEx Shipment and package creation
- A cost-efficient Disaster recovery solution to ensure business continuity

APPROACH AND SOLUTION

Since the application needed to be built in an express development mode but had to be HIPAA -compliant in US, we analyzed the requirements and challenges and came up with the architecture which utilizes the latest technologies in the market like AngularJS, Telerik Controls and FedEx APIs. The following features had to be incorporated:

- Reporting for tracking productivity
- Deploy the infrastructure stack on Microsoft Azure platform
- Introduce communication threads between the tenants and the Chartfill Internal team to stay in sync
- Integrate the UI with Angular for fast processing and to eliminate unnecessary page loading
- Log every activity of the users in the system for the purpose of Audit Logging
- Integrate the Fedex API to generate the shipments on the go with just one click
- To Implement an advanced search for the National Provider Registry
 - ▶ After comparing costs, functionality, and simplicity, Netsmartz chose Azure Site Recovery as the foundation for a DR service. It automates the replication of virtual machines based on policies that the customer sets. It coordinates and manages the ongoing replication of data by connecting to Microsoft technologies such as Hyper-V Replica, System Center 2012 R2, and Microsoft SQL Server AlwaysOn
 - ▶ In the event of a site outage at the primary datacenter,

ASR orchestrates an orderly recovery of services at the secondary site, including failing over multi-tier applications in a customer-defined sequence

- ▶ Both recovery point objective (RPO) and recovery time objective (RTO) are customizable with ASR. RPO is the amount of time during which data might be lost during an IT outage, and RTO is the amount of time it takes to bring the workloads up in another datacenter. Both are important to control in the recovery of multi-tier workloads

BENEFITS

- A highly available, auto-scalable and backed up solution using Microsoft Azure was created
- Patient documents/records/Shipping Labels are secured by Azure blob storage for easy retrieval and tracking
- All requested information is retrieved, reviewed for quality, intelligently indexed and securely delivered in a timely fashion. Using Azure as the DR site eliminates for the expense and complexity of building and managing a dedicated DR datacenter and it gives an easy way to test DR fail-over scenarios without affecting production workloads

ABOUT NETSMARTZ

Headquartered in Rochester, New York, with multiple offices across the globe, Netsmartz is a CMMi3 & ISO 9001:2008 certified company. Formed over 17 years ago, we currently have more than 1000 employees, a rich experience of successfully executing 2000+ projects and working with small companies to Fortune 1000 clients.



Netsmartz Global Delivery Center, Chandigarh



ISO 9001: 2008
CERTIFIED



NETSMARTZ LOCATIONS



Rochester, NY

332, Jefferson Road
Rochester, NY 14623, US
Phone: +1-585-340-1166

Los Angeles, CA

200 Spectrum Center Dr
Irvine, CA 92618, US
Phone: +1-949-813-3114

Toronto

545 King St W, Toronto
ON M5V 1M1, Canada
Phone: +1-647-542-0114

Oslo

Gjekstadveien 36
3218 Sandefjord, Norway
Phone: +47 97653546

Singapore

16 Raffles Quay, #33-03 Hong Leong
Building, Singapore 048531
Phone: +65-9450-4800

Chandigarh

Netsmartz House,
Plot no. 10, Rajiv Gandhi Chandigarh
Technology Park,
Chandigarh - 160101
Phone: +91-172-5055200

Mohali

IT-C-6, Sector 67,
Mohali – 160062,
Punjab, India
Phone: +91-172-3068070

Gurgaon

9th Floor, JMD IT Megapolis
Sector 48, Sohna Road
Gurgaon - 122001
Phone: +91-124-4978466



netsmartz

Global Technology Solutions Partner



Toll Free Number: 1-888-661-8967



sales@netsmartz.com



<http://www.netsmartz.com>

Make a seamless migration to the Cloud with our Azure services.

If you need to know more about how Cloud computing with Azure can be a game-changer for your business, do get in touch with us.

ROCHESTER LOS ANGELES TORONTO OSLO SINGAPORE CHANDIGARH MOHALI GURGAON

HQ: 332 Jefferson Road, Rochester, NY 14623, Phone: 1-585-340-1166