

# Global Pharmaceutical Company, USA

Global contract research organization providing comprehensive, integrated drug development, laboratory and lifecycle management services

## Business Objectives

- Modernize a globally used web application to get modern and user-friendly UI & UX features with all issues fixed in a cloud-based platform so that it can be accessed globally for 20K+ users with lowest latency and highest throughput.
- This is a web-based regulatory intelligence application designed to meet customer's regulatory information needs by expediting the collection, management, and communication of business-critical regulatory intelligence. It allows intelligence to be available and searchable on a country-specific, regional, and global scale.

## Challenges

- Process to keep regulatory information updated is not up to the mark
- UI and UX is not user-friendly
- Complicated and tedious search
- Poor performance and lot of bugs

## Technology Spread

- Frontend: Angular 12, Backend: Net core 3.1
- Database: SQL Azure, Others: AG Grid, CK Editor
- Platform: Azure, Hosting: Azure App Service
- Other Azure Services: Key Vault, SQL Azure, App Insight, Blob Storage

## HCLTech Solution

- Web Application is re-architected, re-designed and re-developed using DotNet core 3.1 and Angular 12 in a scrum based agile methodology. A squad of 3 UX experts, 2 UI developers, 2 API developers, 2 testers and 1 scrum master executed this in a two-weekly sprint in 8 months starting from JAN-2022.
- On-prem windows Jobs were redeveloped as Azure web jobs to run Daily, Weekly & Monthly Jobs.
- AG Grid CK editor Plug-in is used for content editing and showing.
- Azure DevOps Git repo and Azure DevOps CI CD is used for code repo and deployment.
- Data Migrated from On-prem DB to SQL Azure using SSMS
- Nunit test project was developed to carry out unit testing from CI pipeline to automate unit testing.
- Performance tester did his best job to measure performance and notify and eventually it was tuned as per his findings.
- Application monitoring was implemented through Azure APP insights.

## Benefits

- Reduced latency and improved performance. Performance for some pages improved from 1+ min age load to 2 seconds.
- Dynamic search feature for ease of use via redesigning and redevelopment of the entire search functionality
- Process improvement for keeping regulatory information updated via redesigning and redevelopment..
- Modern and improved UX and UI
- Easier control for admins to provide access to multiple title for a role.
- Zero down time and 99.99 % uptime via using Azure PaaS services, Azure DevOps and Azure Monitoring