



IBM ISL is India Software Labs, where majority of the IBM products are developed and maintained. India Software Labs (ISL) is one of the largest development and innovation centers located across multiple cities.

My Role at IBM

I was an intern in the Watson Supply Chain team of IBM Watson Customer Engagement Department.

My team dealt with the Product called Sterling Integrator.



The new era of supply chain begins now

Unleash the power of Watson Supply Chain to create a transparent, intelligent and predictive supply chain



Major Tasks (Mini Projects)

- Research about the Microservice Architecture, REST APIs and Business-to-Business processes.
- Microservice Architecture Demo to pitch the idea.
- Deployment of B2B-APIs on the Sterling Integrator Server
- O Developed and Installed a REST-API Client service and Business workflow for Sterling Integrator.
- Worked on yet another service for Sterling Integrator called XML-JSON-Transformer for Dataconversion needs of customers.
- Oconverted Business APIs to Spring-Boot framework and demonstrated the performance improvements.
- Added Angular Modern UI and Documentation to these new APIs.
- Developed a new Automated IBM Deployment
 Framework.
- Developed a Pre-disaster Human Resource Tracking system.

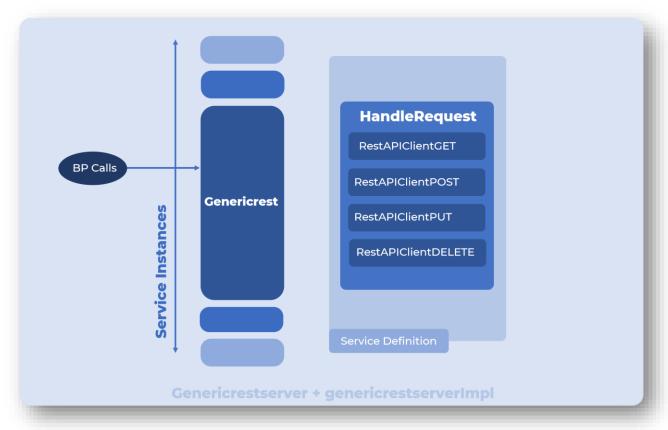




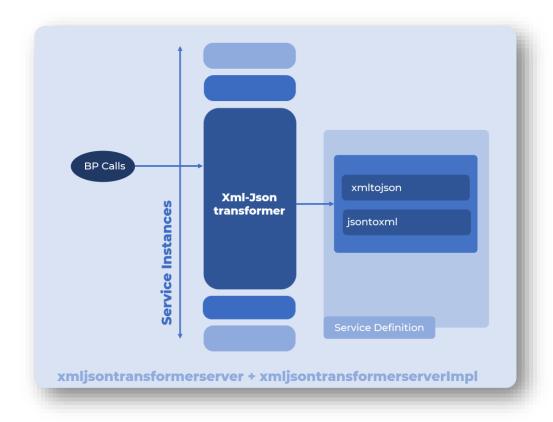
The Results

Set of my Complete End to End Projects

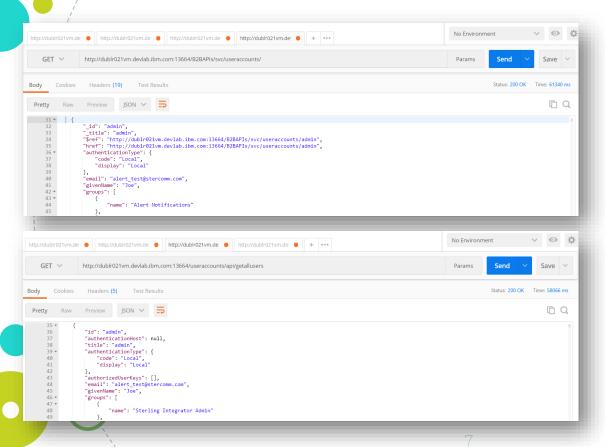
B2B REST Client Adapter



XML JSON Transformer



IBM Business REST APIs (TenX to SpringBoot)



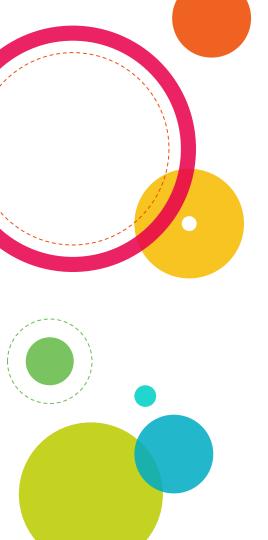
Read-All Request using TenX.

(61340ms, This Request fetches nearly 1000 records)

Read-All Request using Spring-Boot.

(58066ms, This Request fetches 10000 records)

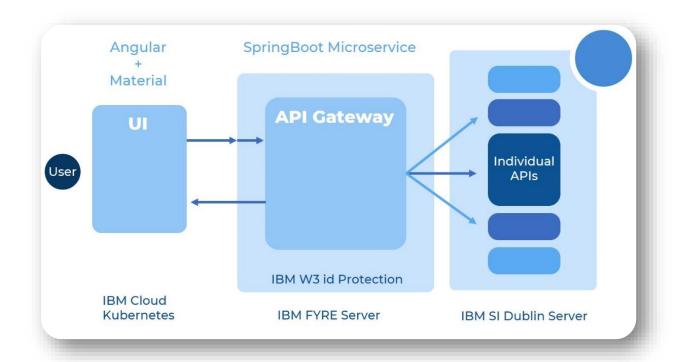




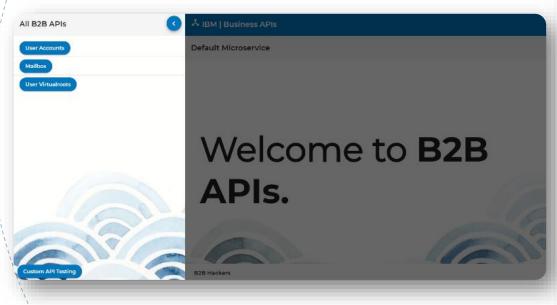
Speaking holistically, on an average, Spring-Boot is nearly ~10-12 times faster than IBM TenX.

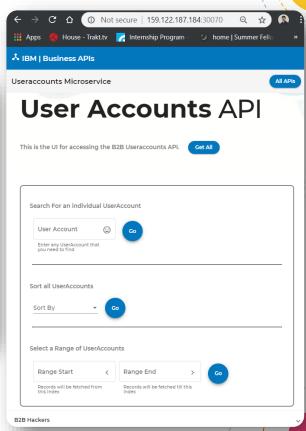
		Spring-Boot	Performance Ratio
Single GET Request	12 seconds	1 second	~12 times
Bulk GET Request	68 seconds	6 seconds	faster

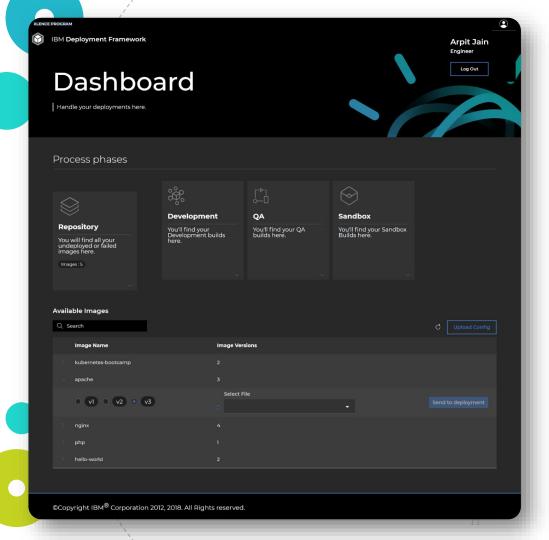
UI For B2B Spring Boot Based APIs



UI For B2B Spring Boot Based APIs

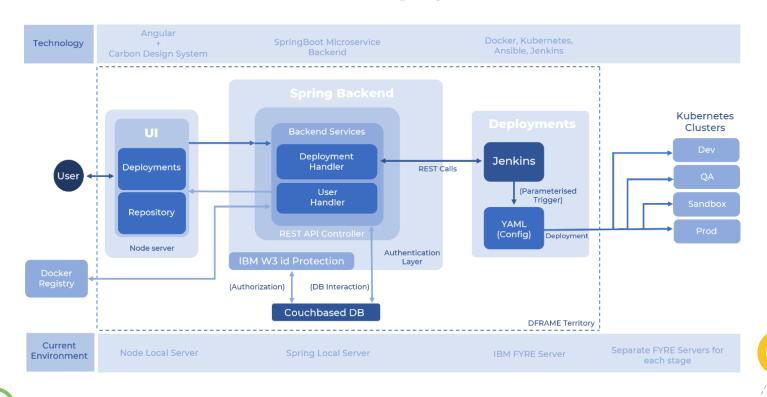




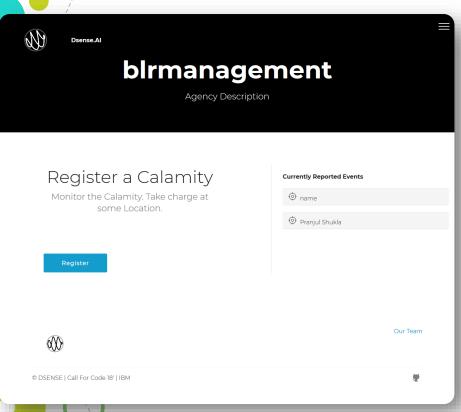


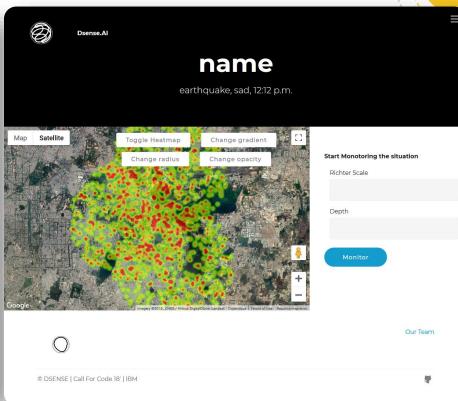


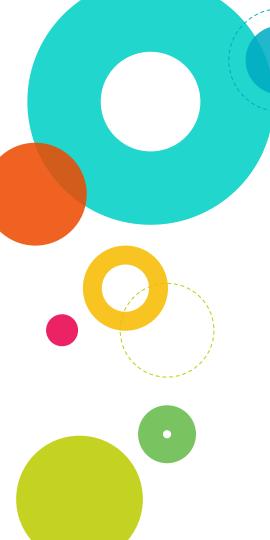
DFRAME: Automated Deployment Framework



DSENSE: Pre-disaster human resource tracking







Final Word About Internship Experience

- During this period of 6 Full Months, I came across various technologies that are being used in the industry and especially in IBM Watson Customer Engagement department.
- I have learnt quite a few new technologies and tools like Microservices, Service Oriented Architecture, Maven, Java Spring, DevOps, REST APIs, IBM Cloud cognitive service offerings; etc.
- I got to understand that how important is User Interface for any product.
- Above all, I learnt from my mentor how to plan. I learnt small things like how to code efficiently and cleanly. I learnt how maintain the positivity of the Team even in the Hard-times.

