Re-engineering of large legacy cargo system to Java EE platform

Client Overview

The client is a leading global information technology company that provides IT services, software and technology.

Business Need

Re-engineer the existing large legacy cargo system to a new system using the latest Java EE technologies. The scope of work includes end to end development – Requirements (gathering, analysis, code mining of existing system, documentation), Design, Coding, Test Planning, Execution (Unit, Integration and System Testing), Packaging and Delivery.

Involves multiple modules like Utilities, Flights, Inventory, Rating, Order, Operations, Customs, etc.

Business Challenge

Time: The client wanted to complete the entire end to end development in 2 years timeframe.

People, Skillset: The development required large team of people (100+) with varied skills sets from domain, technology and management.

Resourcing: Taking into consideration the volume of work to be completed every iteration.

Complexity: Challenges in extracting requirements from a complex system.

Hexaware Approach

Development Approach:

- The entire development is identified in base 350+ use cases and provision has been given to address gaps and enhancements in the new system as place holder use cases with a total of 420+ use cases.
- Development was planned to completed in 7 iterations spanned across two years
- In each iteration, use cases are taken up for requirement definition, design, coding, unit testing, integration testing, demo, packaging and delivery.
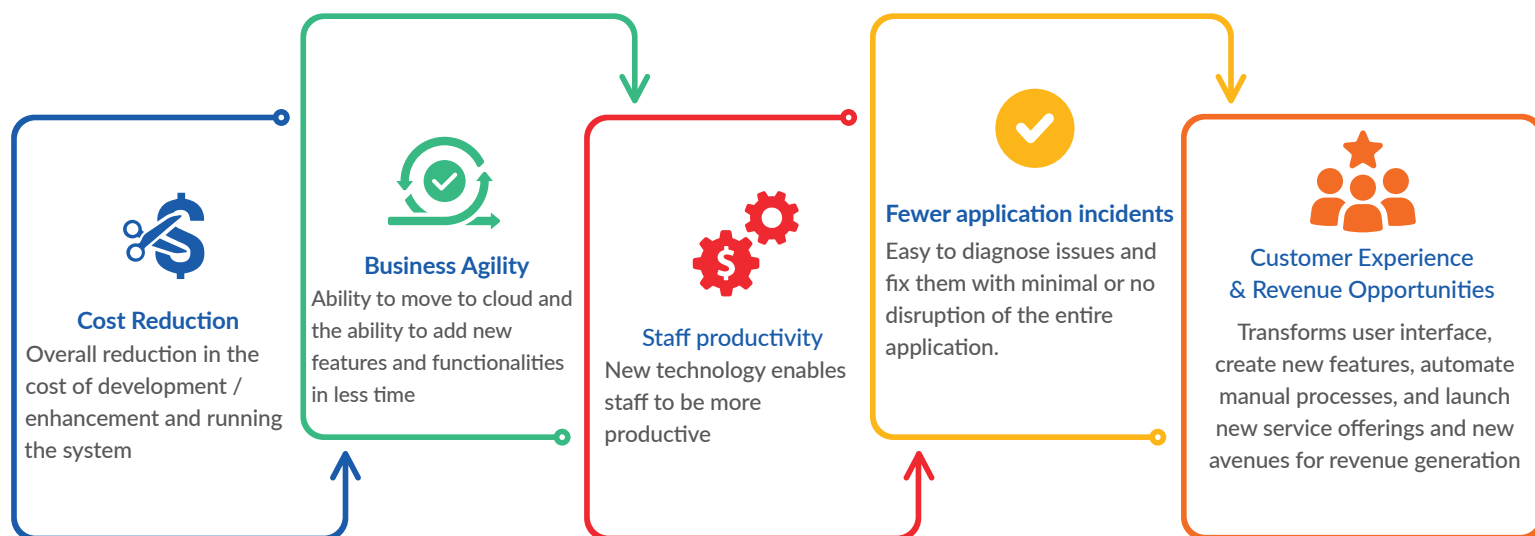
Planning and sequencing:

- The planning is done such that the requirement definition and design are completed in the previous iterations so that coding and unit testing can be taken up in the subsequent iterations.
- Requirements are analyzed such that dependencies between use cases are understood so that they are sequenced across various iterations.
- A particular use case could be dependent on multiple use cases which may be planned across various iterations. Under such circumstances, such use cases are split into parts and developed in multiple iterations to make sure the dependent use cases are realized and made available.
- Provision has been made in test execution and reporting so that such dependent test scenarios are marked and tested again in various iterations.
- JBOSS, JSF(2.0), JDK(1.6), JEE (5), Spring(2.5), JPA , Hibernate(3.3.x) , BRMS Maven(3.0.3)

Business Benefits

- The client has already partially migrated to JEE solution with one module - Rating and other change requests that have been delivered earlier by Hexaware. So the existing system is a combination of legacy and new technology. With this new project the client will have the advantage of a full-fledged New technology product which can give them an edge in the market.

The new technology system brings the following benefits:

Cost Reduction
Overall reduction in the cost of development / enhancement and running the system

Business Agility
Ability to move to cloud and the ability to add new features and functionalities in less time

Staff productivity
New technology enables staff to be more productive

Fewer application incidents
Easy to diagnose issues and fix them with minimal or no disruption of the entire application.

Customer Experience & Revenue Opportunities
Transforms user interface, create new features, automate manual processes, and launch new service offerings and new avenues for revenue generation

About Hexaware

Hexaware is the fastest growing next-generation provider of IT, BPO and consulting services. Our focus lies on taking a leadership position in helping our clients attain customer intimacy as their competitive advantage. Our digital offerings have helped our clients achieve operational excellence and customer delight by 'Powering Man Machine Collaboration.' We are now on a journey of metamorphosing the experiences of our customer's customers by leveraging our industry-leading delivery and execution model, built around the strategy— 'Automate Everything, Cloudify Everything, Transform Customer Experiences.'

We serve customers in Banking, Financial Services, Capital Markets, Healthcare, Insurance, Manufacturing, Retail, Education, Telecom, Professional Services (Tax, Audit, Accounting and Legal), Travel, Transportation and Logistics. We deliver highly evolved services in Rapid Application prototyping, development and deployment; Build, Migrate and Run cloud solutions; Automation-based Application support; Enterprise Solutions for digitizing the back-office; Customer Experience Transformation; Business Intelligence & Analytics; Digital Assurance (Testing); Infrastructure Management Services; and Business Process Services.

Hexaware services customers in over two dozen languages, from every major time zone and every major regulatory zone. Our goal is to be the first IT services company in the world to have a 50% digital workforce.

NA Headquarters
Metro 101, Suite 600,101 Wood Avenue South, Iselin,
New Jersey - 08830
Tel: +001-609-409-6950
Fax: +001-609-409-6910

India Headquarters
152, Sector – 3
Millennium Business Park
'A' Block, TTC Industrial Area
Mahape, Navi Mumbai – 400 710
Tel: +91-22-67919595
Fax: +91-22-67919500

EU Headquarters
Level 19, 40 Bank Street,
Canary Wharf,
London - E14 5NR
Tel: +44-020-77154100
Fax: +44-020-77154101

APAC Headquarters
180 Cecil Street,
#11-02, Bangkok Bank Building,
Singapore - 069546
Tel: +65-63253020
Fax: +65-6222728