شركة الزاهد للتراكتورات
ZAHID TRACTOR

Case Study

Royal Cyber Inc.
Individualized E-business Solution

» Company Background

- The Zahid family has been distributing Caterpillar machinery and equipment since 1950, serving virtually all of the Kingdom of Saudi Arabia's public and private sectors. Zahid Tractor and Heavy Machinery was incorporated in 1967, and over the years it added international brands such as Barber Green and Bitelli asphalt pavers, Challenger agricultural tractors, Daewoo buses and many more. The company became well equipped to provide fully integrated solutions to its demanding clientele.
- As a paperless organization, the company is fully connected through a sophisticated communication network. It continues to innovate and set world-class standards and has become renowned for its commitment to advanced technology and quality.
- Through its well-developed Electronic Quality System (EQS), the company is able to control and manage all of its documentation, making it more effective and efficient. Achievements include early ISO 9001 certification and becoming the first Six Sigma Company in the Kingdom with a focus on developing and delivering near-perfect products and services.

Zahid Tractor & Heavy Machinery Co. Ltd.

» Business Needs

- A large number of services are provided by ZT such as parts, services in addition to the major heavy equipment sales. The legacy systems being used need to become more usable with increasing demand and needs of the customers, along with time and efficiency constraints fulfillment.
- To ultimately increase business by satisfying the existing customers to an entirely new level in usability, along with the increase in overall number of customers.
- Fulfillment of time and budget constraints.
- Easy to be trained on type systems.
- The navigability, accessibility and usability of the mainframe based applications needs to be improved through enterprise application modernization tools.

» Initial Steps

- **In depth analysis of the current system along with a proposed blue print of the system to-be.**
- **Proposal given for IBM HATS for screen modernization.**
- **Creation of HTML Proof of Concept.**
- **Proposal acceptance by the client.**
- **Project Plan created and signed-off by both the teams.**

» Business Problem Case

- To improve business prospects by increasing reach to more customers, presentation and overall usability of existing legacy applications should be modernized with better look & feel.
- A web-enabled application can be accessed using a simple web-browser regardless of the geographical dispersion; hence the legacy iSeries applications need to be modernized into web-enabled modules.
- Getting used to the green screen environment, its navigation and overall operation, the learning curve for new users is very steep.
- In order to accomplish a simple task in i-Series, the user usually has to go to many screens, which is time consuming.

» Solution (IBM Rational HATS)

- Dynamic menu creation using a tree menu structure helped in rectifying the complex problem of tedious navigation sequence among multiple screens.
- IBM Rational HATS was used to transform the iSeries screens into HTML pages utilizing the HATS advanced screen scrapping mechanism.
- Improved the navigation between multiple screens to a whole new level by using IBM Rational HATS Macros to create Menu Macros.
- IBM Rational HATS Integration Objects were used for service enablement of legacy i-Series assets.
- Client-side JavaScript were used for input validations.

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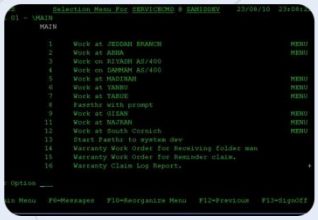
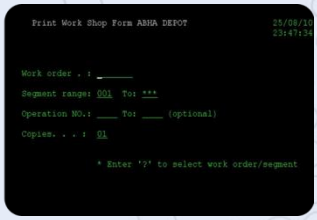
» Achieved Project Milestones

- Project Level Templates
- Menu Macros
- Navigation Macros
- Screen Customizations
- Screen Combinations
- CVS Setup

» Main Menu & Print Mainframe Screens



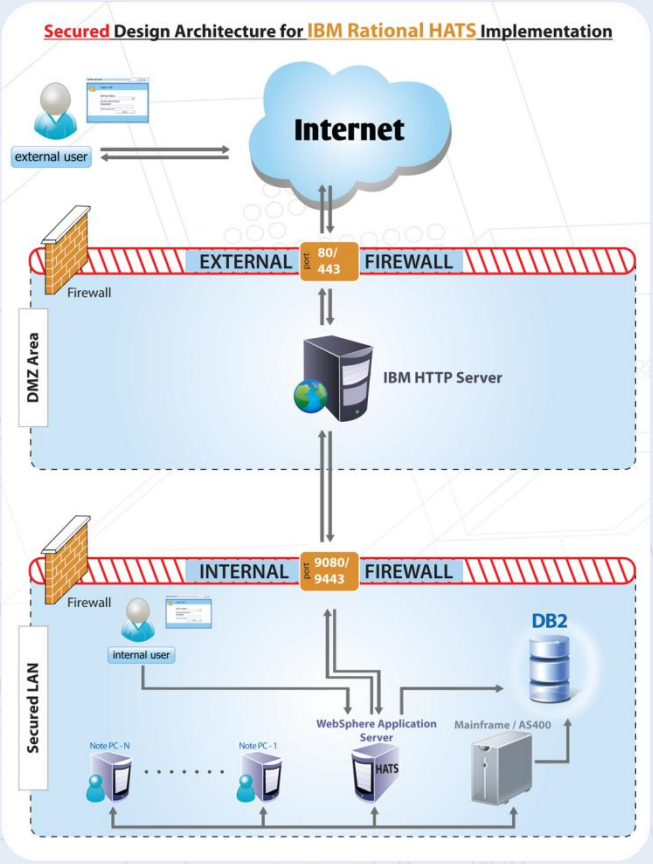


» Main Menu & Print Web-Based Screens

» Business Benefits

- Global accessibility fueling business generation
- User friendly Dynamic menus saving a lot of time
- Security enabled services taken to a whole new level
- Rich GUI with better look and feel with better efficiency
- Customized access to one or more host applications
- Dynamic creation of a new Web HTML interface
- Significant improvement in the navigation and productivity of legacy applications with greater time efficiency

» Design Architecture



Secured Design Architecture for IBM Rational HATS Implementation

» Key Technologies and Tools used

- Rational Host Access Transformation Services.
- Rational Application Developer.
- Cascading Style Sheets
- Java
- JavaScript.
- HTML