Planning, Appeals, and Litigation System @ USDA, Forest Service

Challenge

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The FS contracted NSG to analyze the business processes and develop a web-based, custom computer application. The requirement was to develop an application that would automate the tracking of NEPA projects, create SOPA reports, track and provide assistance in the management of appeals and litigation cases as well as interfaces to i-Web, and provide project details to the public via the internet.

Solution

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In addition to meeting all of the contracts original requirements, the application also integrates with other FS applications such as Lotus Notes LDAP, EMC DRM solution, i-Web, and FS internet websites. NSGI used Oracle 10g as the database, Oracle 10g application server for business logic, and Oracle HTTP server as the web server. The front end was developed using HTML, JavaScript, CSS, AJAX, and JSP. Highlights of NSG's solutions include:

- Computer software analysis and design to identify software that would best serve the requirements (led to selection of the Oracle application server, Oracle Report, and Oracle database software)
- Custom application software programming by creating various programs for database-tier, application-tier, and presentation-tier to implement USDA SDLC methodology
- Database design which involved creation of tables, views, and procedures

Results

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- Improved processes: SOPA report preparation and distribution, NEPA document printing, project record collating, and management reporting
- Efficient collection and dissemination of NEPA-related information to the public
- Seamless interface with the new Public Portal websites, the new FS intranet, and the new FS
- e-mail technologies for information sharing

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