



Case Study for SaaS Based Portal for HRMS SAP Integration

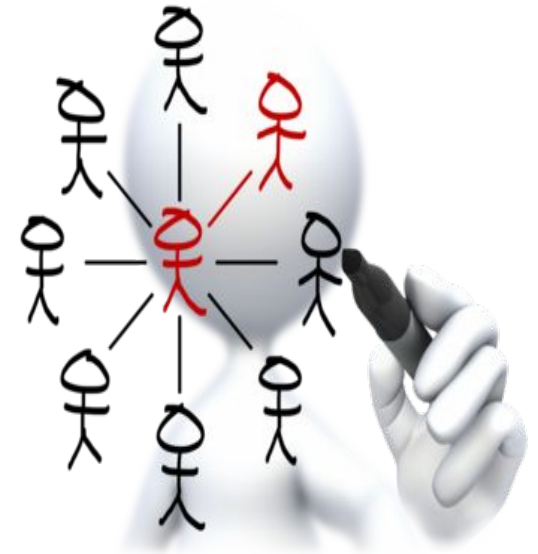
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Client Requirement

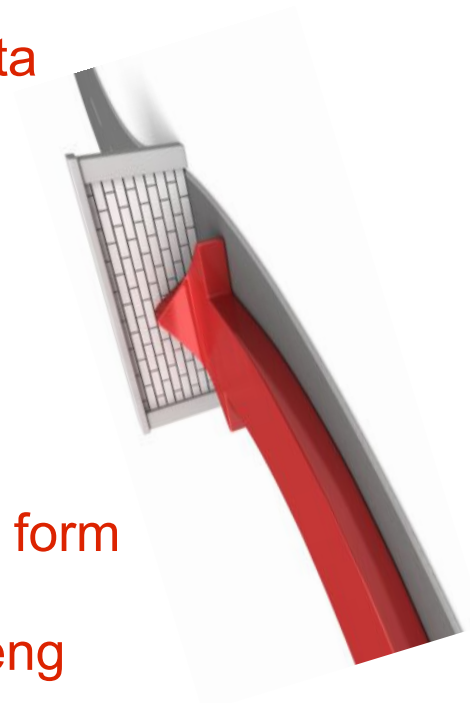
- Functionalities like managing Employees, Companies, Leaves, Assets & Travel
- Hr-oriented application having integration with the third-party Payroll system
- System as a Service where the application is hosted on a single server
- Manages multiple companies under it functioning independently Advanced filter and sorting techniques
- Data archiving facility Quick data assimilation facility
- Ability to print detailed reports
- Ability to generate and print executive summary of Record





Project Challenges

- Providing a robust framework for supporting the smooth functioning
- Incorporating web usability principles while developing numerous features designed
- Sustaining good load balance for a feature-rich website that is available 24/7
- As forms are static, it's hard to manage abundance of static data
- Ensuring user privacy and safeguarding their content
- Managing record of each user
- Developing an application as per client's requirement
- We used a custom tool that allowed creating a static data entry form
- Managing the data of statically designed form came as a challenge





Technologies Used

Operating System & Server Management	Windows OS,Multi-Server Architecture with Staging & Production Environment through Version Controlling releases,Server Optimization,Security & SSL Implementation,Scheduler for Back-ups ,Alert Monitoring System Integration,Server Performance Tuning at regular intervals, Software Firewall Configuration & Maintenance
Development Tools & Environments	.Net3.5 Framework, CSS, HTML, Windows 7(Used as a Development Server), Windows 2008(Used as a Production Serve
Database	SQL Database Server, DB Clustering, DB Optimization , Master Slave Replication,Query Optimization,Scheduler for Backup



Manpower

Project Leader	1
Developers	3
Designers	1
Quality Assurance Testers	2



Planning

- The Database layer containing MSSQL Server Database, Tables, Stored Procedures and so on
- Then converting data between incompatible type systems in databases and accessing data from the database respectively
- The Application layer consisting of all the business logic procedures for modules like Employee, Masters, Leave and Travel etc.
- The Presentation layer which forms the Graphical User Interface of the website



Architecture

Presentation Specific Layer:

This will include the page level layer which will be accessing the other layers beneath to present the data

Application Layer:

It talks to Database Specific layer to apply the business logic and then lastly return the Model

Database Specific Layer:

This will act as a bridge between the database and the application accessing the data



Development Highlights

- Privacy and security of the content was given utmost importance
- Generating report played a vital role in the project
- Stored procedures were used to handle complex queries
- Optimized query features offered comprehensive search & browse options
- Application was installed on production server only after ensuring that it works fine on the development server
- Framework was kept highly scalable in order to provide adaptability & ease
- Web usability guidelines were strictly followed during development
- Interface was made easily navigable through judicious use of CSS and HTML



Sources :

<http://www.brainvire.com/employee-self-services/>



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