

Bay Area Semiconductor company Simplified IT, Increased Agility with a Smart Resource Management Solution

Customer Profile:

The customer is a Fortune 500 company, is a manufacturer of semiconductor equipment for the lithography coat/develop and wet cleaning/etching processes.

Business Situation:

The customer was envisioning a resource management solution to meet their business needs. They wanted to replace their cumbersome manual excel based processes and were looking for a robust solution, which could reduce the manual efforts involved in entering the data every time when there is an update from the customer project.

Key requirements included:

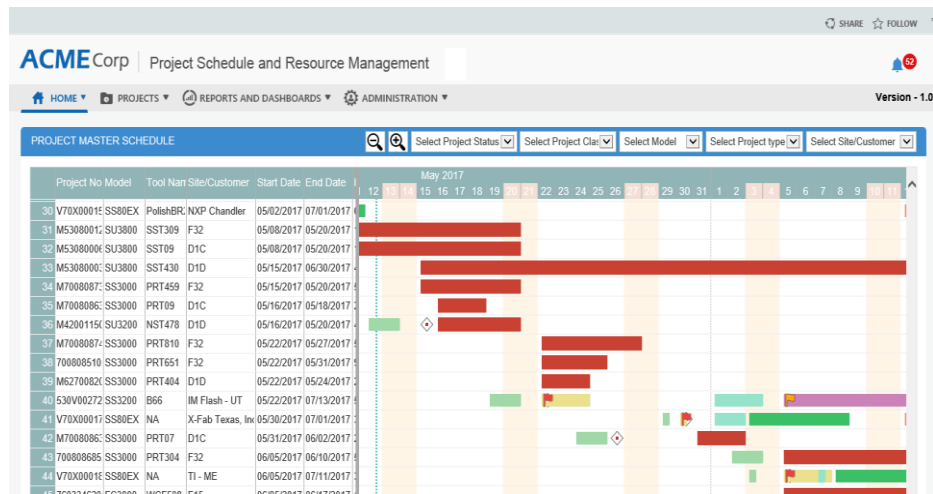
- Provide ability to import data from excel
- Implement a workflow to either approve or reject the changes coming in when incremental changes are received
- Create a new project and enter basic details about the project
- Manage imported and existing project details including the state (status), PID, ALID, Supplier Name, UEID, Category, Model, etc.
- Find out the available resource(s) on real-time based on the skill set needed by reviewing the resources dashboard
- Review all projects' resource allocation in a consolidated manner
- Review a particular project detailed timelines vs the individual resource's involvement duration in the project

WinWire Solution:

WinWire SharePoint architects and Governance experts worked closely with the IT & Business team from the company to implement the custom solution that was used for project schedule and resource management.

- **WinWire proposed a well-defined architecture to meet all the requirements**
- Defined a strategy for Security Structure and Capacity Planning
- Adopted Responsive UI design methodology for landing pages for seamless user experience across multiple devices (desktop and mobile devices)
- Architected a scalable and reactive DB design for quick response times and future data load.
- Leveraged Microsoft recommended best practices and design patterns for integrating the Data layer on SQL on premise with SharePoint on the Office365 cloud. This ensured minimal load times for a page request irrespective of the amount of data to be processed and displayed.
- Designed PowerBI Dashboards to provide a graphical summary of various pieces of business information along with the option to drill down to the details for individual components.

Technologies Used: O365, JQuery, .NET 4.5, SQL 2014, Power BI, WCF



Benefits:

- Detailed view on the resource utilization thus reducing the cost of idle resources
- Provided access to get detailed projects overview thus increased the efficiency of the project execution
- Improved planning due to better visibility
- Increased agility due to streamlined operations

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