



How Direction Software LLP created a Report Management Portal

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Client

This Company headquartered in Dubai, U.A.E is one of the oldest Business House in the region and has offices and warehouses spread over the Middle East.

Summary

- This Portal is designed for users to view the reports as per the business unit and the roles they belong to
- Single report is created for fetching data conditionally from SQL Server or Oracle Database Server
- Dynamic Report Portal where no change in code is required while adding report to the portal

Challenges

- Users belong to different business units
- Database server can be either SQL Server or oracle as per the choice of particular business unit
- Currently separate reports were created for each Business unit wise for fetching data
- Hence for same type of report say 'Sales Report' multiple copies of report were being made and maintained
- No option was present to have a centralized access for the reports for all the users

Solution

- Web Portal is created using ASP .Net MVC 5 (for UI), SQL server And Oracle (for database), SSRS for reports, SVN for version control
- Admin can define and configure reports, BUs, map reports to roles and business units
- Business unit needs to be mapped to respective oracle or SQL server database
- User needs to be defined and mapped to the business units and roles
- As per the role access the reports menu would be displayed
- Dynamic deciding whether the report has to point to SQL server or oracle database
- No change in code whenever a new report is to be added

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Technologies used

- UI - Asp.Net MVC 5 With C# [Full control and easy to write tests, Best for SPA (single page application)]
- CSS and JavaScript - Bootstrap, JQuery
- Bootstrap 3 - sleek, intuitive and powerful front-end framework
- NewtonsoftJson - Popular high-performance JSON framework for .NET, Data communication between server and browser is done using JSON Data
- SSRS - SQL Server Reporting Service is used to display reports (.rdl) files. SQL Reporting server is used for that purpose.
- Entity framework 6 - object-relational mapper with MSMQL database data.
- SQL Server - Handled through Entity framework
- LINQ - is used for database queries and DML operation

Third Party Controls and Tools used

- Grid - JqGrid (4.10)
- Common controls (buttons, labels) - Bootstrap/ Html tags
- MessageBox - Alertify.js
- RichTextEditor - Line-Control
- Icons - Font-Awesome
- Multi Select Dropdown - Bootstrap Multiselect
- Notification Box - notify.js
- TortoiseSVN - Version Control

About DIRECTION

We are a software services firm, specializing in developing & implementing Internet strategies for businesses & providing high-end software development services including Custom Programming & Offshore Development.

With 17,000 sq. ft. of space in a modern building in central Mumbai the hub of all business activities in Mumbai, Direction is fully equipped with state-of-the-art infrastructure and networked with redundant 6 MBPS dedicated internet access from different providers.

Our vision is to be a trusted IT partner, leveraging our knowledge of tools and technologies to provide simple, integrated and innovative solutions that result in maximum customer satisfaction.



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