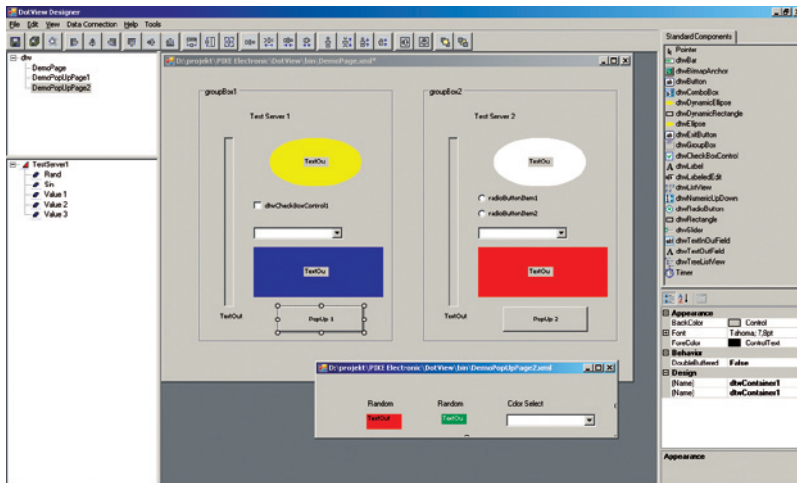


INTRODUCTION

The product **DotView** is useful for every company developing applications data visualization.

The **DotView** is aimed at various groups of engineers and technicians for commissioning, quality management and real-time value measuring purposes.

The **DotView** is based either on web or Windows Forms Application with client-server architecture.



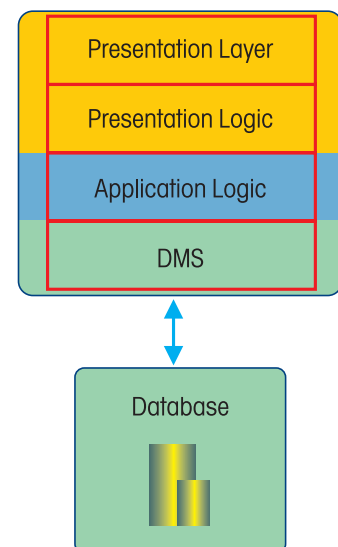
The **DotView** is perfectly suitable for **real-time** and **database** oriented data sources. In order to achieve best performance during development and runtime it consists from two fully integrated development packages handling data sources. **The DotView Designer** is dedicated to handle real-time data sources and is actually interfaced for OPC servers. The library of graphical and control points and the communication interface are both open for extensions. The database and datagram oriented data sources are presumed to be handled by second package **HMI Framework**.

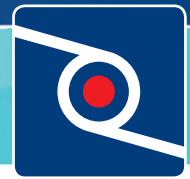
Both packages can be used separately or fully integrated into one visualization system.

First package – The user designs and develops his project in DotView Designer. The project is structured to pages with user-defined hierarchy. The process of page creation is very fast and intuitive. Any special hard skills are not needed. The user creates new pages and locates there all graphical, control or measuring objects by drag & drop. All standard graphical and control objects are available in pre-prepared libraries and they are displayed in docked areas in the DotView Designer. If the user is ready with page or project he deploys new page or project on the servers simply by pushing the button. The project runs in web browser or Windows Form Application. The DotView Designer projects are stored on local hard drive in files and directories with typical structure.

DotView FEATURES

- ✓ Graphical web based end-user interface
- ✓ Client-Server Architecture
- ✓ Based on .NET platform
- ✓ WYSIWYG designer for screens
- ✓ Separation of data mining layer and data presentation layer
 - Hiding data mining layer for programmers of HMI dialogs including common data access for HMI dialogs programmers
- Common data interface between presentation layer and data provider using so called DataBlocks as basic data unit
- ✓ Adaptation to customer's needs
 - Look & Feel of application can be adapted to reflect customer requests
- ✓ MS .NET studio integration
 - Native use of .NET datasets for built-in and also 3rd party components (DevExpress, TeeChart)
- ✓ Reusability / Flexibility
 - Once implemented dialogs and dataproviders can be easily reused in further projects





Second package – HMI Framework is set of libraries and executables, which encapsulates common parts, speed up developing process and brings unified design of applications. MS Visual Studio is used as HMI Framework Designer. The Application interface of the HMI Framework provides support for common features of whole Visualization, communication between client (Presentation layer) and server (Data Provider), supporting tools and utilities generating compile, enabling code making development much easier.

REFERENCE

- Continuous Caster Machine HMI, Anyang
- Continuous Caster Machine HMI, Jisco CSP
- Continuous Caster Machine HMI, Shougang
- Steel Melting Shop HMI, Jisco
- Steel Melting Shop HMI, Isdemir
- Steel Melting Shop HMI, CelsaUk
- Steel Melting Shop HMI, UralSteel
- Cooling Section HMI, SSI Banhanshapan
- Compact Cold Mill Operating HMI, Jinan
- Compact Cold Mill Operating HMI, Spaceframe
- Continuous Pickling Line HMI, Jinan
- Plate Mill HMI, Xiangtan

DotView HIGHLIGHTS

- ✓ Thin client = no installation procedure on client's side
- ✓ Quick changes in the configuration, no need to restart client application to see changes in the configuration
- ✓ Saving project costs
- ✓ Speed up development
- ✓ Reusability of components
- ✓ Flexibility
- ✓ System architecture adaptability
- ✓ Fast adaptability to data source changes
- ✓ .NET technology used

