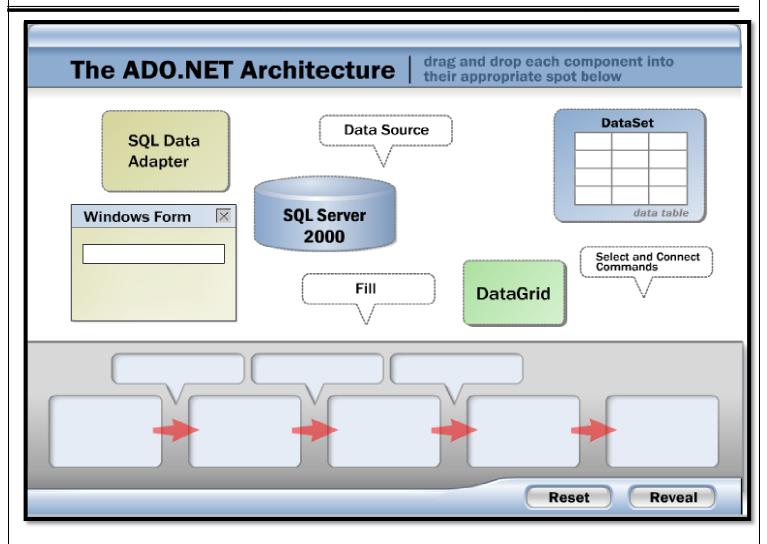
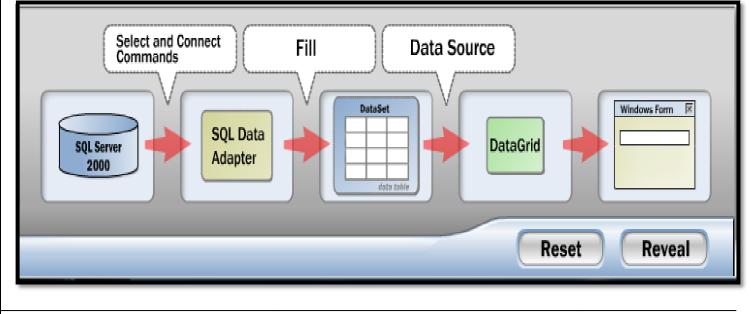
ADO.NET Dr.Qadri Hamarsheh **ADO.NET Programming** Advanced Programming Language (630501) Fall 2011/2012 – Lecture Notes # 22 **ADO.NET Objects Model** DataAdapter Connection SelectCommand InsertCommand Command DeleteCommand **UpdateCommand** DataReader DataSet Relations Tables (DataRelationsCollection) (DataTablesCollection) · DataRelation - - - -DataTable DataTable DataRelation DataTable DataRelation – – –

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ADO.NET Programming





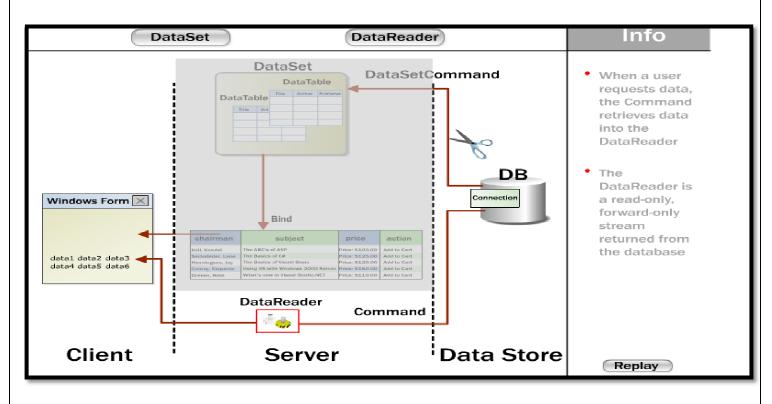
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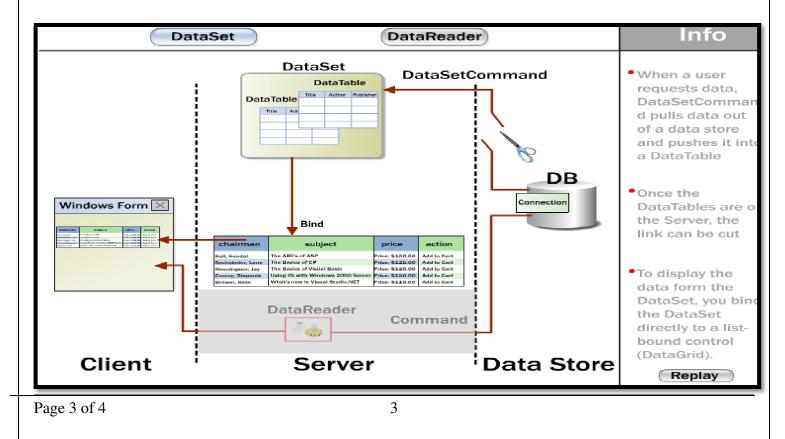
Dr.Qadri Hamarsheh

ADO.NET Programming

DataReader object



Data\$et Object



ADO.NET Degramming of Galera and Command Select Command Select Command Select Command Update Command Update Command

Database

- The **SqlConnection** class is used to establish a *connection to a SQL Server database*. The SqlConnection class is used for *opening* connections, *setting* or *retrieving* properties of a connection, or handling connection-related events.
- The **SqlCommand** class is used to *execute SQL statements* or *stored procedures* against a SQL Server database. The SqlCommand class (and its OLE DB equivalent, the OleDbCommand class) can execute statements or stored procedures that do not return values, or that return single values, XML, or datareaders.
- The **SqlDataReader** class provides *forward-only, read-only access* to a set of rows returned from a SQL Server database. Datareaders (including both the SqlDataReader and OleDbDataReader) provide high-performance access to read-only data and are the best choice for accessing data to be displayed in ASP.NET.
- The SqlDataAdapter class is used as a *bridge* between the *DataSet* class and *SQL Server*. You can use the SqlDataAdapter class to *create* a dataset from a given SQL statement or stored procedure represented by a SqlCommand instance, to *update* the back-end SQL Server database based on the contents of a dataset, or to *insert* rows into or *delete* rows from a SQL Server database. The *OleDbAdapter* class performs the same tasks for OLE DB datasources.