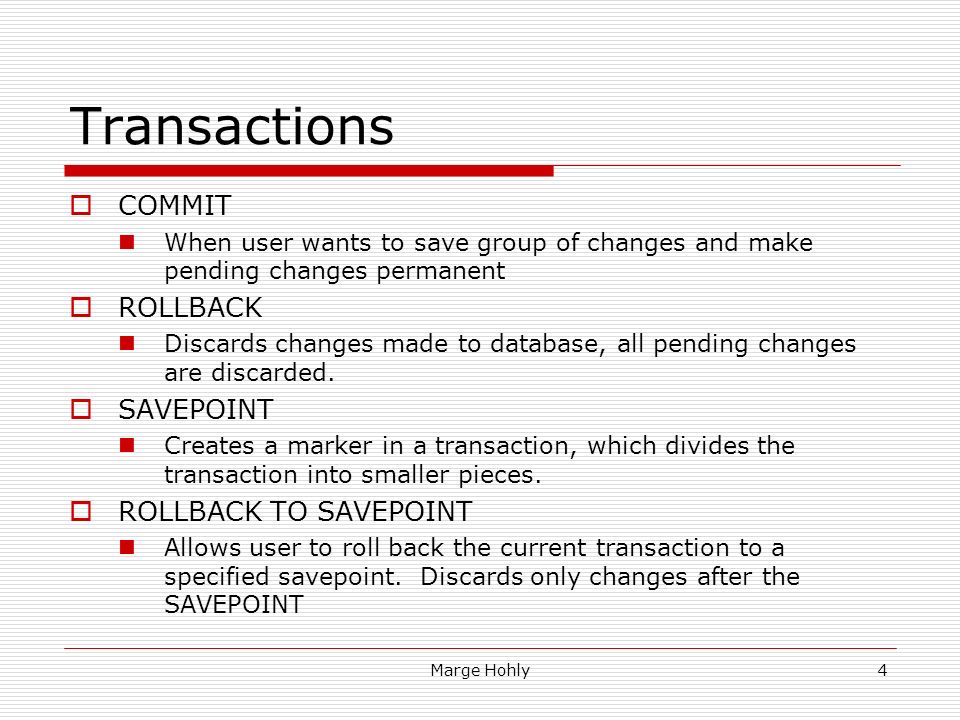
**Date:** 18- Sep-2020

**What is meant by Transaction?**

It is process which all of the data modifications was successfully updated to the Database. The Process includes Committing Transactions and Rollback the process.

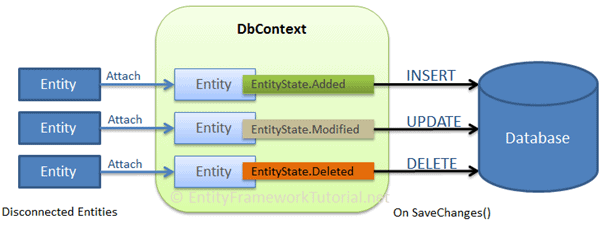
If a Transaction encounters errors, we can able to rollback the transactions



**Why We Need dbContext?**

It represents a session with the database which can be used to query and save instances of our entities to a database.

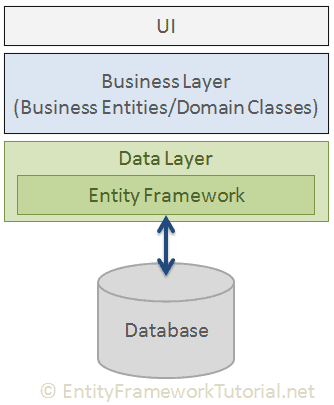
**DbContext** is a combination of unit of work and repository patterns.



**Why we need Entity Framework?**

It is an ORM and ORM are aimed to increase the developer’s productivity by reducing the redundant task of persisting data used in the applications.

**Entity Framework** can generate the necessary database commands for reading or writing data in the database and execute them for you.

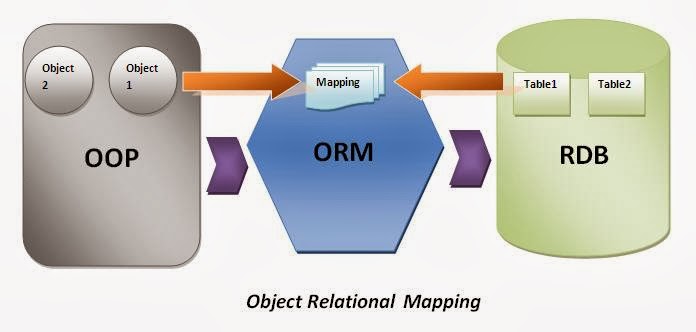


**What is the Purpose of ORM?**

An Object – Oriented relational mapper **(ORM)**  is a code library that automates the transfer of data in relational database tables into objects that are commonly used in application code.

**Why ORM?**

ORMs help to reduce the **Object-**Relational impedance mismatch. They allow you to store and retrieve full live **objects** from a relational database without doing a lot of parsing/Serialization self.



**What is meant by Relational Database?**

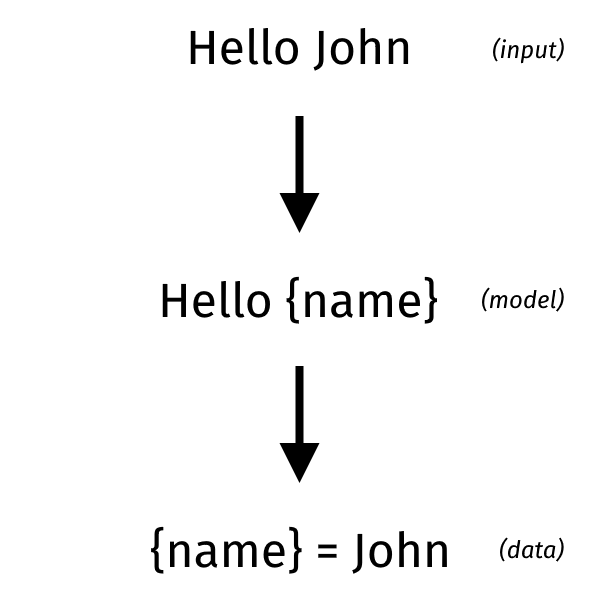
It organizes data into tables which can be linked – or related – based on data common to each. It stores data in Structured Format As Rows and Columns. The Term “**Relational”** Means tables are related to each other.



**Date:** 19- Sep-2020

**What is meant by Parsing?**

The Process of Turning some kind of data into another kind of data. It always turning a string, or binary data into a data structure inside your program. The Parser builds a Data Structure based on the tokens. This data structure can be used by a compiler, interpreter or translator to create an execute program or library. Parsing is a compiler that is used to break the data into smaller elements coming from lexical analysis phase. A Parser takes input in the form of sequence of tokens and produces output in the form of phase tree.



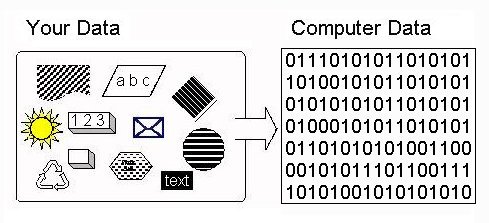
**What is meant by Serialization?**

The Process of converting an **object** into a **stream** **of** **bytes** to store the **object** or **transmit** it to **memory**, a **database**, or a **file**. Its main purpose is to **save** the **state** of an **object** in **order** to be able to recreate it when needed. The **reverse** **process** is called **deserialization**.



**What is meant by Binary Data?**

The data whose unit can take on only two possible states, traditionally labelled as 0 and 1 in accordance with the binary numeral system and Boolean Algebra.



**Date:** 22- Sep-2020

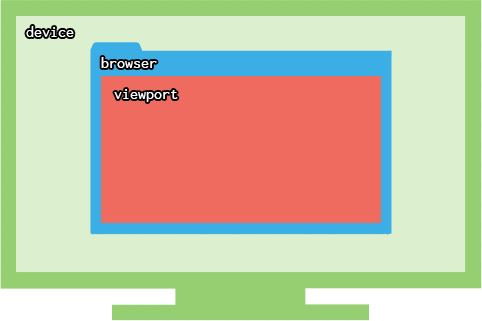
**What is Isolation in SQL Server?**

**Isolation** level is nothing but locking the row while performing some task, so the other transaction can not access or will wait for the current transaction to finish the job.

**Date:** 23 - Sep-2020

**What is meant by Viewport (CSS)?**

The **viewport** is the user’s visible are of a web page. The **viewport** varies with the device, and will be smaller on a mobile phone on a computer screen. Before Tablets and mobile Phones, web pages were **designed** only for computer screens, and It was common for web pages to have a static design and a fixed size.



**Date:** 24 - Sep-2020

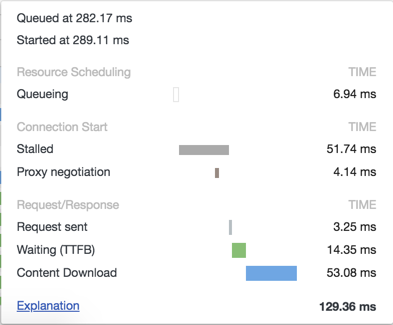
**What is meant by Queuing?**

The request was postponed by the rendering engine because its considered lower priority than critical resources (such as scripts/styles). This often happens with images.

The request was put on hold to wait for an unavailable TCP socket that’s about to free up.

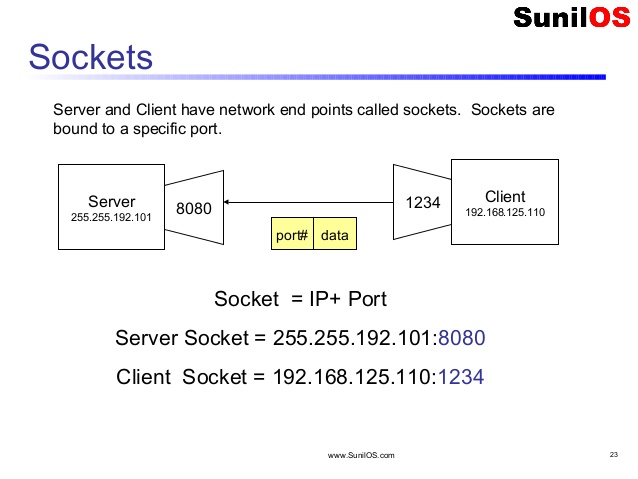
The request was put on hold because the browser only allow six TCP connections per origin on HTTP 1.

Time spent making disk cache entries (typically very quick)



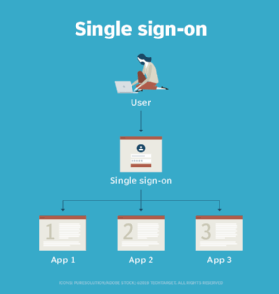
**What is meant by TCP Socket?**

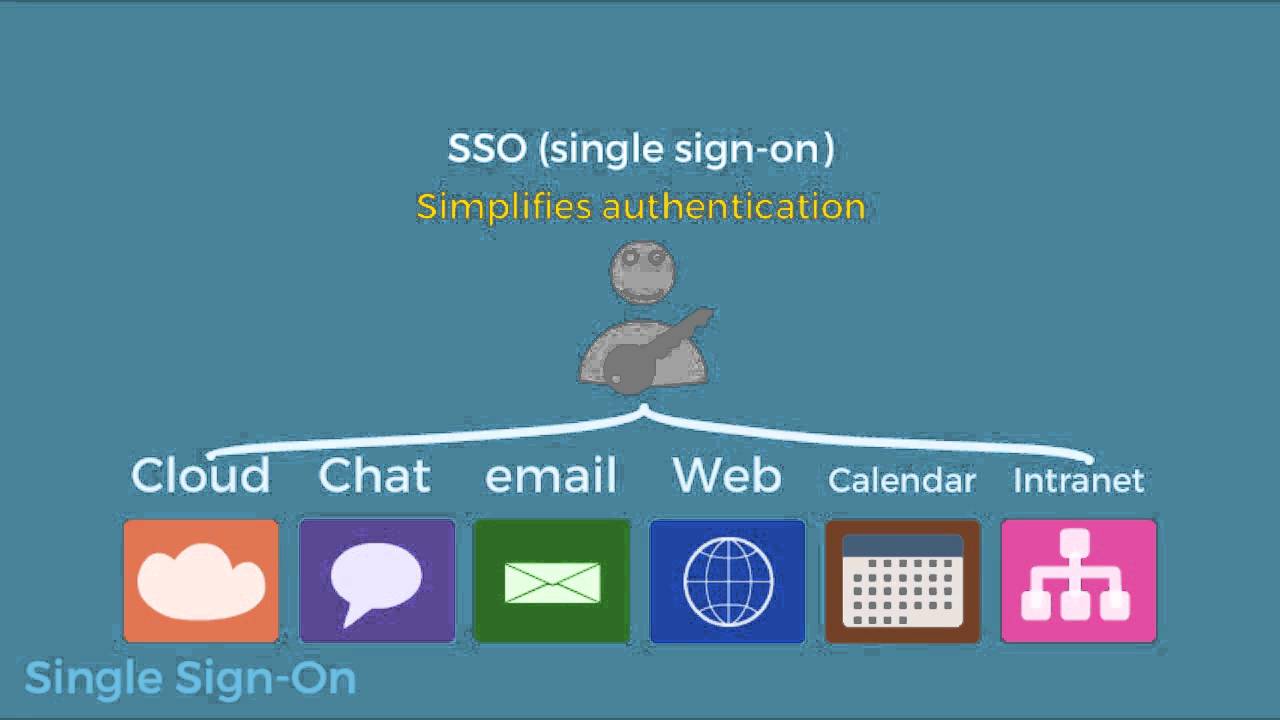
A **Socket** is one endpoint of a two-way communication link between two programs running on the network. A **Socket** is bound to port number so that the **TCP** layer can identify the application that data is destined to be sent to. An endpoint is a combination of an IP address and a port number.



**What is meant by SSO?**

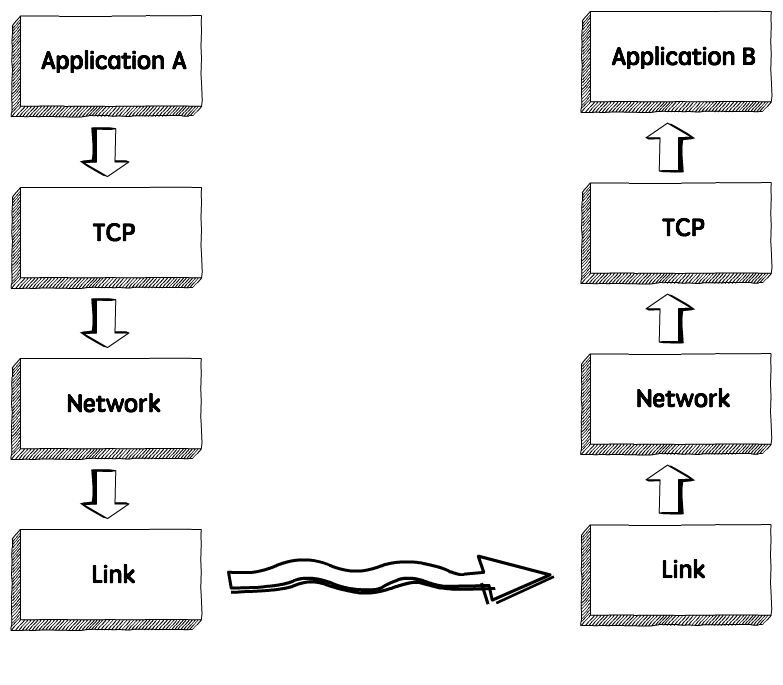
**Single sign**-on (**SSO)** is a property of **Identity** and **Access** **Management** (IAM) that enables users to securely authenticate with multiple applications and websites by logging in only once—with just one set of credentials (username and password).





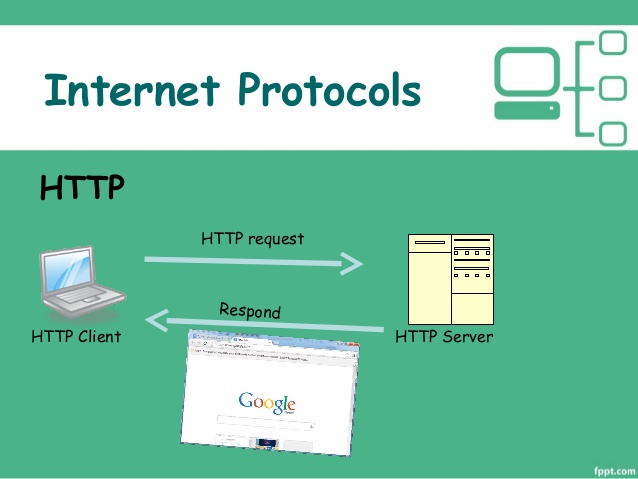
**What is meant by TCP?**

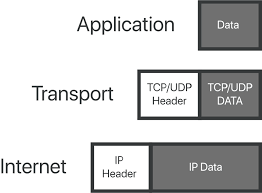
Transmission Control Protocol **(TCP) –** a connection-oriented communications protocol that facilitates the exchange of messages between computing devices in a network. It is the most common protocol in networks that use the Internet Protocol (IP); together they are sometimes referred to as **TCP/IP.**



**What is meant by Internet Protocol?**

The **Internet Protocol (IP)** is a **protocol,** or a set of rules, for routing and addressing packets of data so that they can travel across networks and arrive at the correct destination. Data traversing the **Internet** is divided into smaller pieces, called **packets.**



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