MICROSOFT

By : Mohamed Moetaz Boughalmi

About Microsoft :

Microsoft Corporation is an American computer and micro-computing multinational, founded in 1975 by Bill Gates and Paul Allen. Microsoft is among the largest market capitalizations on the NASDAQ, alongside Apple and Amazon.

Microsoft Corporation, leading developer of personal-computer software systems and applications.

As technology advanced and personal computers become so popular, the bulk of Microsoft's revenue was generated from sales to consumers. It was the first software company to reach $1 Billion in revenues.

The chosen technology by Microsoft:

From Microsoft annual report (2012):

"We provide consulting and product and solution support services, and we train and certify computer system integrators and developers. We also offer

cloud-based solutions that provide customers with software, services and content over the Internet by way of shared computing .resources located in centralized data centers. Cloud revenue is earned primarily from usage fees and advertising.''

Microsoft is a technology giant that imparts services to businesses, beginners, and even seasoned digital veterans to develop and deploy enterprise projects. Once a business has decided on an application, the next biggest thing on the list is determining a tech stack.

In this ever-changing digital era of technological breakthroughs, the Microsoft technology stack has remained popular, especially for large enterprise projects. Most enterprise-grade applications trust Microsoft's technology stack for its dependable performance. The global community support of Microsoft technology stack has led to a solid foundation for enormous application development projects.

Microsoft technologies:

.NET Framework :

The .NET framework is a software development framework to create both form-based and web-based applications. Application development with Microsoft .NET framework involves web applications, web services, Windows mobile and desktop applications, web and windows services, as well as console applications.

MS SQL :

SQL Server is Microsoft's relational database management system that provides reliable server security using encryption. A standard set of procedures of the MS SQL makes the processes of fetching, recovering and restoring of data easily.

Microsoft Office 365:

Microsoft Office 365 is a (SaaS) solution that is adopted by businesses to access a suite of Microsoft services that includes applications such as Excel, PowerPoint, Word, and other enterprise-scale Microsoft Office applications.

Microsoft Visual Studio Platform:

Microsoft Visual Studio is an IDE (Integrated Development Environment) which is an efficient platform for developers to code, debug, and test their applications with great accuracy.

Microsoft Visual Studio can perform database development with SQL Server Data Tools to coding Android and iPad applications using Xamarin. Microsoft Visual Studio offers a consistent development experience with a great user interface. Microsoft Visual Studio also avoids the complexities involved in a distributed cloud infrastructure.

Microsoft Azure:

At its core, Azure is a public cloud computing platform—with solutions including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) that can be used for services such as analytics, virtual computing, storage, networking, and much more.

And so on...

Problems motivated The founders:

Like any company, Microsoft corporation had many problems.

And here is some examples:

*General Functionality Issues.
*Difficulty in Finding Applications for Windows 10.
*Update Reboots without Warning.
*Windows Insisting on Edge Usage.
*Inability to Print after a Windows 10 Upgrade.
*Malfunctioning MS Office 365.
*Issue Regarding the Server Platforms.

How IT solutions help overcome it?

Microsoft is a successful company because of its founders. They are a young company by many standards, which may be a contributing factor to their success, but part of their success has been their resilience and ability to respond to changing technologies, market demands, and business opportunities.

Microsoft & Blockchains:

Microsoft explained its decision in the following terms: Based on recent changes in the blockchain industry and the growing business needs of our customers, we are collaborating with ConsenSys, one of our blockchain

technology providers, to offer a managed offering of their blockchain ledgers on Azure.

The technology behemoth behind the Windows operating system plans to use the Ethereum (CRYPTO: ETH) blockchain in its fight against digital piracy.

Azure Blockchain WorkBench is a free tool provided by Microsoft which lets you manage Azure blockchain applications. It is composed of Azure capabilities and services, which allows you to deploy and create blockchain applications.