

Web Development Framework

DESCRIPTION OF INVENTION

The technology developed is a framework to speed up new software developments with .Net Core technology.

This technology consists of a standard layered architecture based on Clean Architecture on which to build new modern applications with the most advanced technologies in record time.

The technology offers a reliable and robust code library that implements generic and reus-

able functionality, which allows to drastically reduce the development time in a project to create software applications, or to migrate applications to more advanced technologies through the use of base components that provide the implementation of reliable and proven design patterns.

BUSINESS APPLICATIONS

Any company that needs to undertake software development projects, either because it requires the creation of a new application for its end users or for internal use within the company, or because it needs to undertake the renewal and migration of applications developed with old, and even sometimes, obsolete technologies. Also, it is for companies that want to adapt their applications to the most modern and advanced technologies in order not to lose competitive advantage in the market in which they are well positioned.

Of course, the companies that undertake the largest number of software development projects are companies in the Technology and Communications (ICT) sector. One of the major challenges these ICT companies face today has to do with the ability to bring their software products and applications to the market, or to deliver them to their customers on time and with optimal quality. In many cases, this goal is not achieved due to high development times and poor design decisions in the early stages of development that lead to low quality software development. Another challenge for ICT companies is the complexity of the evolution of their software products and applications to more advanced technologies that enable them to provide a better service to their end users. This is often because development teams are limited in capacity and focused on the day-to-day, so they do not have enough time to evolve and improve their products and applications.

All this means that the ICT sector is considered to have the greatest impact, although any company that has the internal capacity to develop its own software applications can benefit from this solution, regardless of its sector.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The technology offers the following advantages and benefits:

-) It implements reusable and well-tested components, as well as a standard architecture in layers based on Clean Architecture, on which to build new projects that allow for **shortening delivery times** and **ensuring the quality and robustness** of the development or migration of software applications and, therefore, results in **cost savings** and **reduced time to market** or application launch time for companies.
-) It provides a **solid foundation** on which to develop back-ends for .NET Core web applications with the most advanced technologies that implement a set of **design patterns** and **cross-functional** aspects that are **common to many applications** such as security, persistence, auditing, multi-ownership,

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metadata, etc. It also implements project templates that include both the front-end, with a series of visual components already packaged, and a pre-configuration of backend components.

-) **It keeps companies from investing a lot of time** in analysing and making decisions that require a great deal of effort and time to study the different options and the most optimal configuration, and which are not without risk. In addition, it keeps them from testing to validate the suitability of the design and problems at later stages of development, when it will be much more costly to solve them.
-) It is a framework that is **adaptable to all types of software development projects** because it is not intrusive, nor does it impose a strict way of working and it is also decoupled from proprietary technologies.

STATE OF TECHNOLOGY DEVELOPMENT

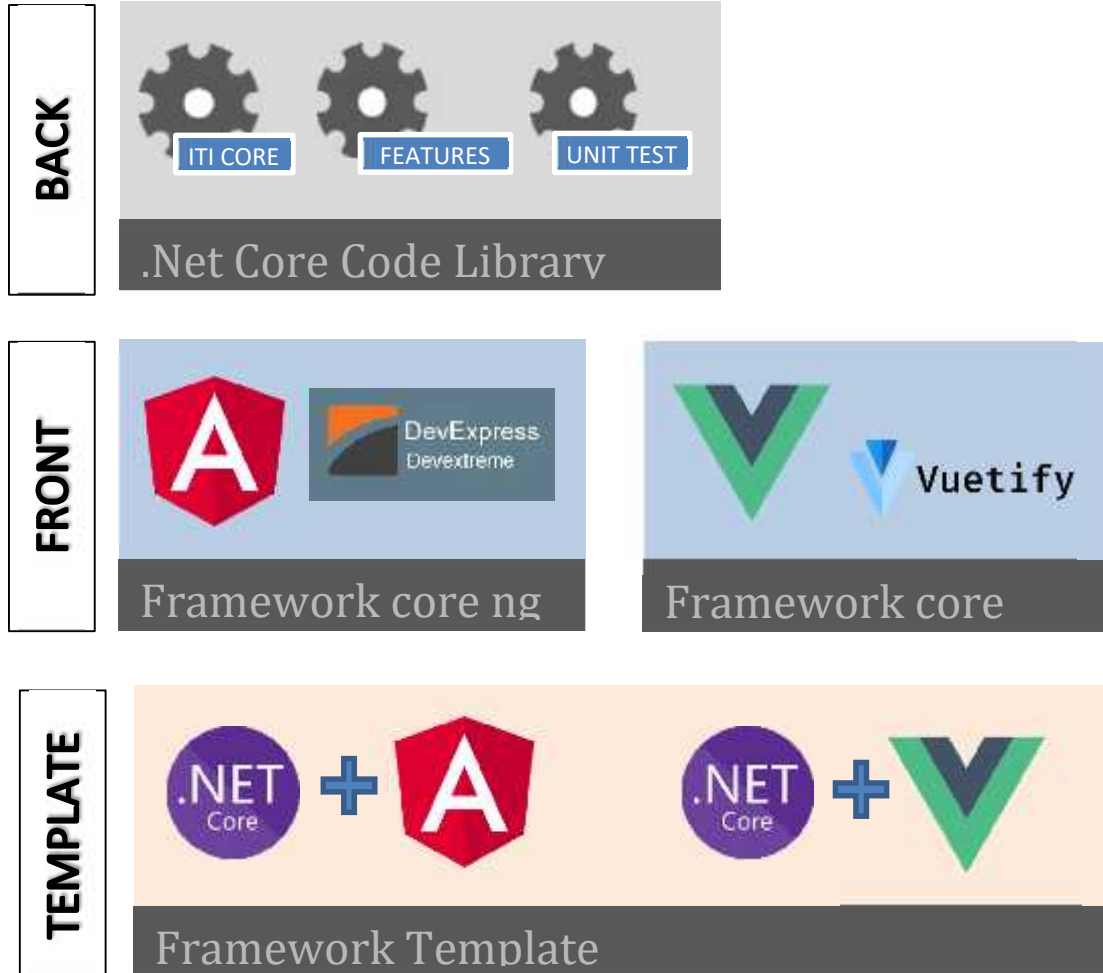
The technology has been developed and tested by the Instituto Tecnológico de Informática (ITI), implemented in customers of various sectors and sizes, and is in continuous evolution, incorporating each year the advances resulting from ITI's constant research and the contributions and experience with our customers.

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