Riskivector Enterprise Resource Planning (ERP) Platform

(✉) M. Włodarczyk[1], P. Matos[2], V. Laranjeira[3]

[1]Student, Bachelor, Informatics Engineering at Escola Superior de Tecnologia e Gestão de Bragança, Instituto Politécnico de Bragança, Portugal.
marcin.wlodarczyk410@gmail.com
[2]Professor-Adjunto do Departamento de Informática e Comunicações, Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Bragança, Portugal.
pmatos@ipb.pt
[3]CEO, Riskivector, Unipessoal Lda, Portugal.
riskivector@gmail.com

ABSTRACT

ERP systems are critical for the organization and management of day-to-day business activities regardless of a company's extent. They are designed around a single, defined data structure with a usually common database, ensuring that the information used in the enterprise is normalized, and based on common definitions and user experiences. Data is the treasure and lifeblood of every industry and its correct control is a key to business scaling. These key constructs in conjunction with business processes driven by workflows across different departments simply integrate people and technologies indoors a modern enterprise.

Riskivector, Unipessoal Lda as a local affordable accommodation provider for international students faces a significant problem due to the rapid growth of demand. A significant amount of customers together with its correlated data distributed across several standalone data sources and an endless inventory of disconnected spreadsheets cause difficulties such as hard or impossible accessibility to crucial reports allowing proper decision-making, laborious administration of exponentially growing data.

This work aims to improve the digital infrastructure of Riskivector, Unipessoal Lda by developing an innovative and user-friendly ERP system. The development of the application will ensure not only improvement in the organization of activities but also the digital transformation of the core business processes of the company. The system will contribute significantly to the idea of storing, organizing and processing critical data in a centralized repository, thereby confirming the ease of accessibility and deployment in consistency with the requirements of operational activities.

After a profound understanding of company needs and thoroughgoing research data has been straightened out in an entity-relationship model and important architecture decisions were made to implement a robust and scalable web-based application programming interface that allows further development of ERP solution.

Keywords: ERP, innovation, organization, technology

REFERENCES

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