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A STUDY ON HEADLESS ERP USING APIS FOR CUSTOM WEB APPS

G. GOKUL[1]
Student,
Department of Management
Annai College Arts and Science kovilacheri ,India.

Dr. R. RAJKUMAR[2]
Director & Professor,
Department of Management,
Annai College of Arts and science kovilacheri,India

K. VIMALANATHAN[3]
Research Scholar,,
Department of Management,
Annai College of Arts and science kovilacheri ,India.

H. AYESHA TASNEEM[4]
Assistant Professor,
Department of Management,
Annai College of Arts and science kovilacheri ,India.

Abstract

Enterprise Resource Planning (ERP) systems have traditionally served as the technological backbone of organizations by integrating core business processes such as finance, human resources, procurement, inventory, and customer relationships into a unified system through centralized databases and standardized workflows. These systems were originally designed as monolithic applications, where data storage, business logic, and user interfaces were tightly coupled. However, with the rapid advancement of cloud computing, application programming interfaces (APIs), microservices, and web-based technologies, enterprise software design has undergone significant transformation. Modern ERP solutions have evolved into modular, cloud-native platforms that expose functionalities through APIs, enabling greater flexibility and scalability. This evolution has led to the emergence of headless ERP architecture, which decouples the back-end system from the user interface layer, allowing organizations to build customized front-end experiences while maintaining robust and efficient backend operations.

Keywords : Headless ERP[1], Application Programming Interfaces (APIs)[2], Enterprise Resource Planning[3], Cloud Computing[4], Microservices Architecture[5], Digital Transformation[6], Custom Web Applications[7], System Integration[8]