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Thesis

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Integrating ERP Systems with Ecommerce Platforms : Impact and Challenges

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- *Rania*

Dedication

To those who have given me life,
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To the woman who, with a single glance, understands a whole world. To this woman who
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my memory forever. Your friendship has brought me comfort and joy, even during the most
challenging times.

- *Sirine*

ABBREVIATIONS AND ACRONYMS

CCBCC Coca-Cola Bottling Co. Consolidated
FR Functional Requirements
NFR Non-Functional Requirements
RCC Retail Competency Center
B2B Business-to-Business
API Application Programming Interface
CCPA California Consumer Privacy Act
GDPR General Data Protection Regulation
ROI Return on Investment
SCM Supply Chain Management
CRM Customer Relationship Management
IoT Internet of Things
AI Artificial Intelligence

ABSTRACT

In the realm of computer science, the integration of Enterprise Resource Planning (ERP) systems with e-commerce platforms has emerged as a crucial subject for research and development.

This thesis aims to address the difficulties and potential benefits of integrating ERP systems with e-commerce platforms, add to the growing body of knowledge in the field, and offer useful advice for companies looking to take advantage of these systems' advantages.

The goal is to boost the general effectiveness, productivity, and competitiveness of companies participating in the digital market and provide insightful data that can guide choices and spur innovation in this dynamic and developing field.

ملخص

في مجال علوم الحاسوب، أصبح تكامل نظم تخطيط موارد المؤسسات (يغع) مع منصات التجارة الإلكترونية موضوعًا حاسمًا للبحث والتطوير. تهدف هذه الأطروحة إلى معالجة التحديات والفوائد المحتملة لتكامل نظم يغع مع منصات التجارة الإلكترونية، والمساهمة في جسم المعرفة المتنامي في هذا المجال، وتقديم نصائح مفيدة للشركات التي تسعى للاستفادة من مزايا هذه الأنظمة. الهدف هو تعزيز الكفاءة العامة والإنتاجية والتنافسية للشركات المشاركة في السوق الرقمية، وتوفير بيانات موضوعية يمكن أن توجه القرارات وتعزز الابتكار في هذا المجال الديناميكي والمتطور.

RÉSUMÉ

Dans le domaine de l'informatique, l'intégration des systèmes de planification des ressources d'entreprise (ERP) avec les plateformes de commerce électronique est devenue un sujet crucial de recherche et de développement.

Ce Mémoire vise à aborder les difficultés et les avantages potentiels de l'intégration des systèmes ERP avec les plateformes de commerce électronique, à contribuer au corpus croissant de connaissances dans ce domaine et à fournir des conseils utiles aux entreprises souhaitant tirer parti des avantages de ces systèmes.

L'objectif est d'améliorer l'efficacité générale, la productivité et la compétitivité des entreprises actives sur le marché numérique, et de fournir des données pertinentes pouvant orienter les décisions et stimuler l'innovation dans ce domaine dynamique en constante évolution.