



Sarvajanik College of Engineering & Technology

Master of Computer Applications



Commercient SYNC

ERP Integration for CRM

Present By:

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Enrollment No: ET22MTCA104

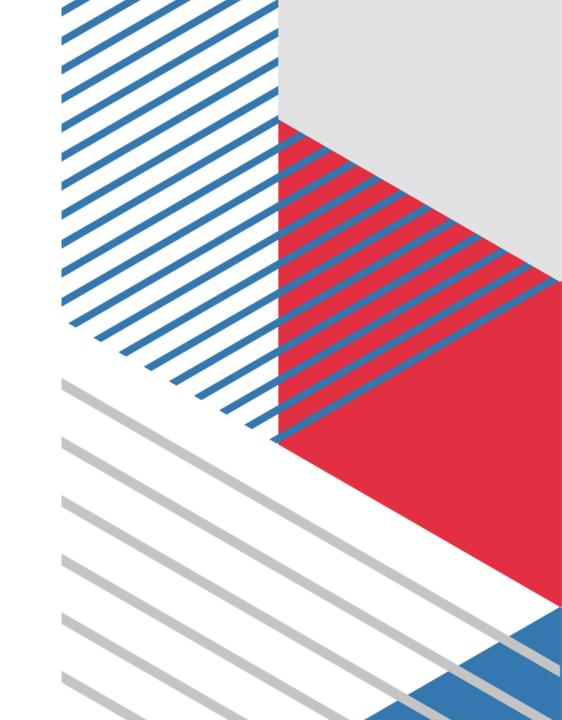
Guide By:

Prof. Zankhana Vaishnav

Introduction

Commercient makes ERP and CRM integration really simple, quick, and efficient. Commercient has helped over 1000+ global companies seamlessly deploy enterprise integrations for ERP, CRM, Sales Automation (SA), and e-commerce by providing an "out of the box" integration solution that can be deployed rapidly with minimal services and overheads.

The integration platform synchronizes 150 + on-premise and cloud ERP systems, including NetSuite, Sage Intacct, Acumatica, Microsoft 365 AX, NAV, SL, Workday, IFS, INFOR, Epicor, ECi, Exact, SAP, Deltek, GlobalShop, IQMS, QAD, Syspro, Plex, QuickBooks, M2M, and many more.



Existing System

Before Commercient came along, connecting ERP and CRM systems was hard work for businesses. It took a long time to set up, cost a lot of money, and was very complicated.

Companies often had trouble making different systems work together, and there weren't any easy solutions available. This meant that every integration project was unique and didn't always work well. As a result, businesses couldn't use their systems effectively, which made it harder for them to get things done efficiently.

Need for the new System

- Easy Data Management: Commercient helps businesses handle and track data easily.
- Lots of Data: Businesses have a lot of data, and Commercient helps them handle it well.
- Need for Efficiency: Modern businesses need tools like Commercient to work better.
- **Simplifying System Fusion**: Commercient makes it easier for businesses to merge their ERP and CRM systems, ensuring a smoother integration process.

Why should you integrate them?



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ERP (enterprise resource planning) software covers data across your organization. Most eCommerce businesses will benefit from an ERP system. including departments like accounting, human resources, procurement, supply chain management, eCommerce, and more. Examples include SAP, Oracle NetSuite, and Epicor Prophet 21.

Meanwhile, CRM (customer relationship management) platforms help sales and marketing teams. These systems manage information on prospects, customers, and former leads. Examples include Salesforce, HubSpot, and Microsoft Dynamics 365.

Larger businesses need both. CRM platforms have specialized features you won't find in the most popular ERP software, and ERP covers a broader range of company-wide information that would be impossible to calculate with a CRM.

How it works







ERP to CRM

You can integrate your ERP data with your CRM system using our simple one-way SYNC app.

CRM to ERP

CRM data with your ERP system. Commercient SYNC is the easiest application to use to export your CRM data to your ERP system.

ERP And CRM SYNC

Commercient offers a two-way SYNC app designed to integrate both your ERP and CRM data together, creating one master system for easy data access.

Tools & Technologies

| Frontend | Shopify, JavaScript, jQuery |
|--------------------------|---|
| Backend | ASP.NET Core, C#, Python |
| Database | Microsoft SQL Server |
| Cloud Storage | Amazon S3 Bucket |
| Development Tools | Visual Studio, VisualSVN, Windows Task Scheduler |

(A) Functional Requirements

Data Synchronization: The system should facilitate bidirectional synchronization of data between ERP and CRM systems, ensuring consistency and accuracy across both platforms.

Customer and Sales Order Integration: Users should be able to synchronize customer information, sales orders, invoices, and payments between ERP and CRM systems seamlessly.

Product and Inventory Management: The system should support the integration of product catalogs, inventory levels, and pricing information between ERP and CRM systems.

(A) Functional Requirements

Opportunity and Lead Management: Users should be able to synchronize opportunity and lead data between CRM and ERP systems, enabling sales teams to track prospects and opportunities effectively.

Quote and Order Management: The system should enable the transfer of quotes and orders between CRM and ERP systems, facilitating efficient order processing and fulfillment.

Reporting and Analytics: Users should have access to integrated reporting and analytics capabilities, powered by Al-driven insights and predictive analytics models, to generate comprehensive reports and actionable insights based on data from both ERP and CRM systems.

(B) Non-Functional Requirements

Security: The integration should implement robust security measures to protect sensitive data during transmission and storage, ensuring compliance with data protection regulations.

Performance: The integration should have optimal performance, with minimal latency and efficient data processing to support real-time synchronization between ERP and CRM systems.

Scalability: The integration should be scalable to accommodate growing data volumes and user loads, allowing for seamless expansion without compromising performance.

(B) Non-Functional Requirements

Usability: The integration should be user-friendly, with intuitive interfaces and clear navigation to facilitate ease of use for employees accessing data across ERP and CRM systems.

Reliability: The integration should be reliable, with built-in error handling mechanisms and failover capabilities to ensure uninterrupted data synchronization and business continuity.

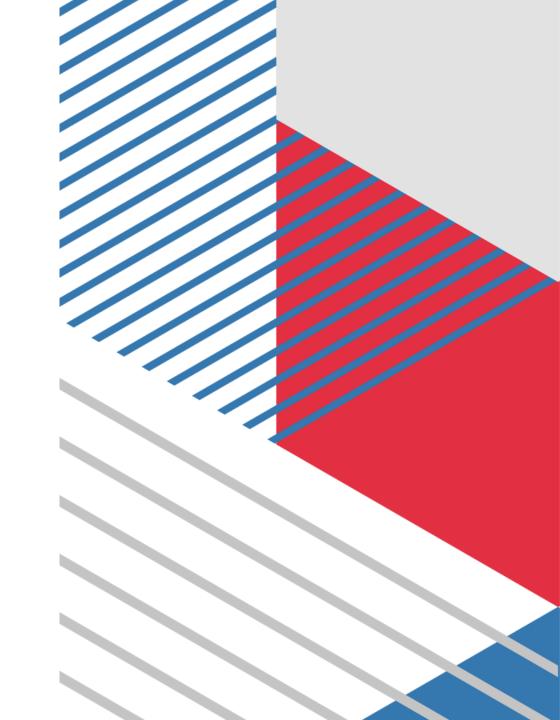
Compliance: The integration should comply with relevant industry standards and regulations, such as GDPR, HIPAA, and SOC 2, to ensure data privacy, security, and regulatory compliance.

Targeted Users

Commercient's target audience spans executives, sales representatives, finance teams, customer service, IT admins, marketers, and operations managers relying on ERP and CRM systems.

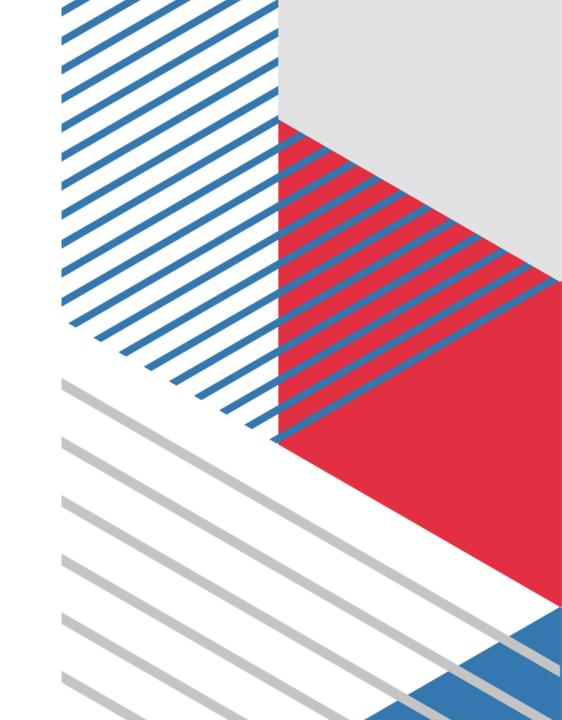
Benefits of SYNC

- Increased sales revenue
- Improved customer service
- Better decision-making
- Enhanced collaboration
- Better Analytics and Reporting



Limitations of SYNC

- Complexity and Cost
- Compatibility Issues
- Data Security Concerns
- Dependency on Vendor Support
- Change Management Challenges



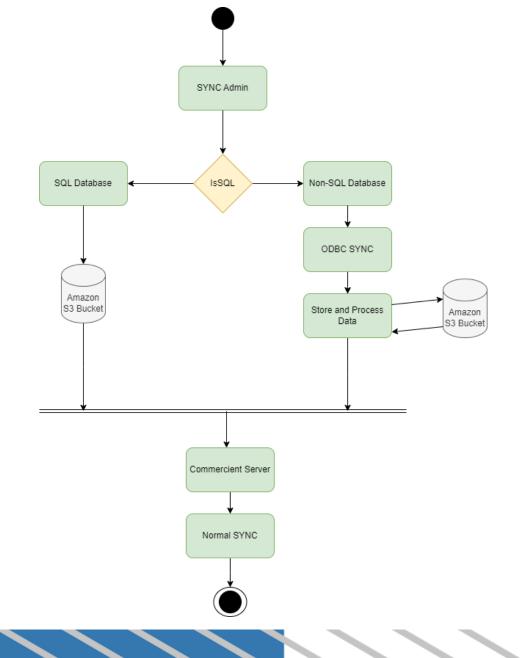
Use Case Diagram of User



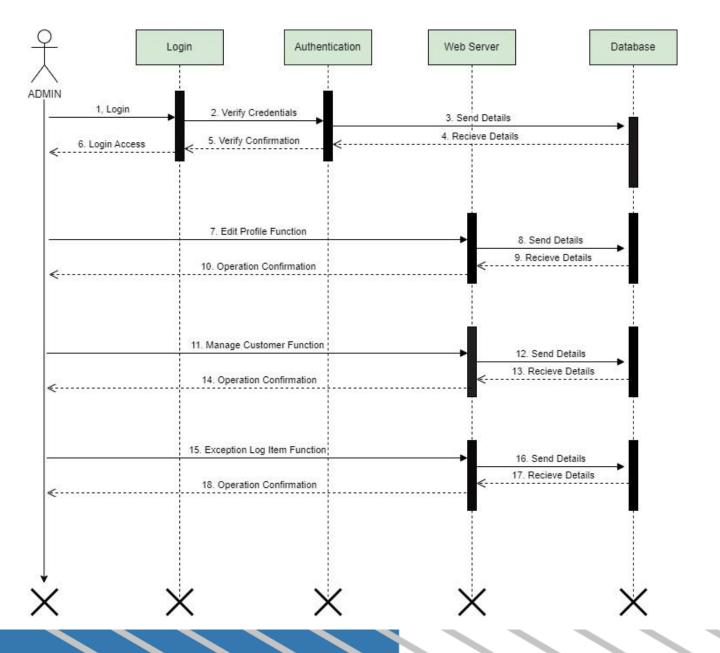
Use Case Diagram of Admin



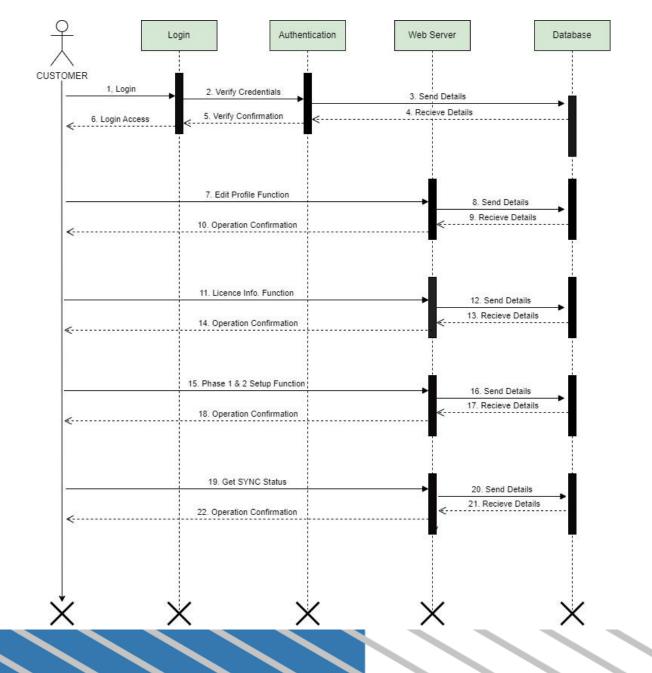
Normal SYNC Activity Diagram



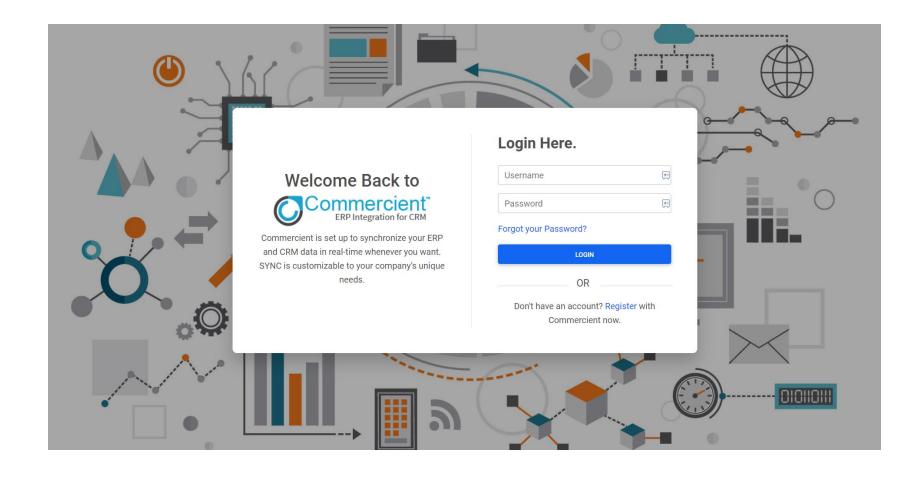
Interaction Diagram for Admin

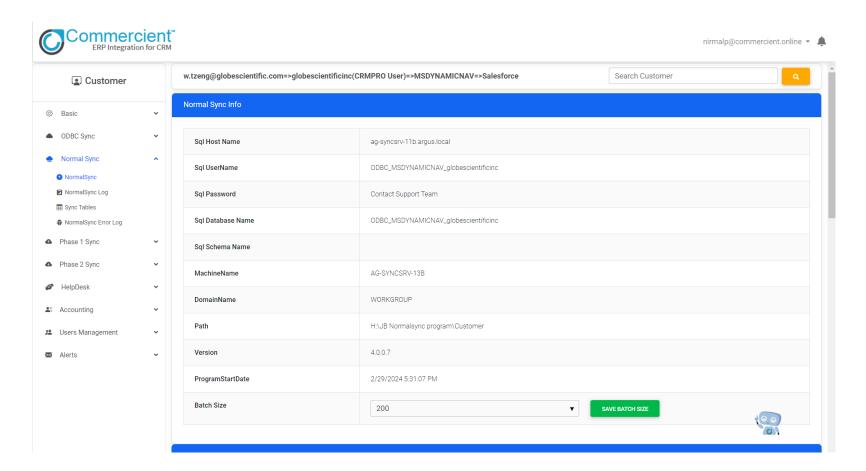


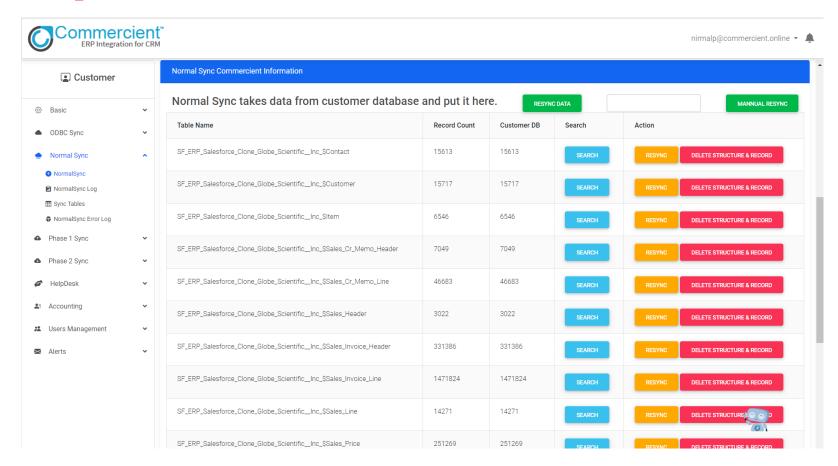
Interaction Diagram for Customer

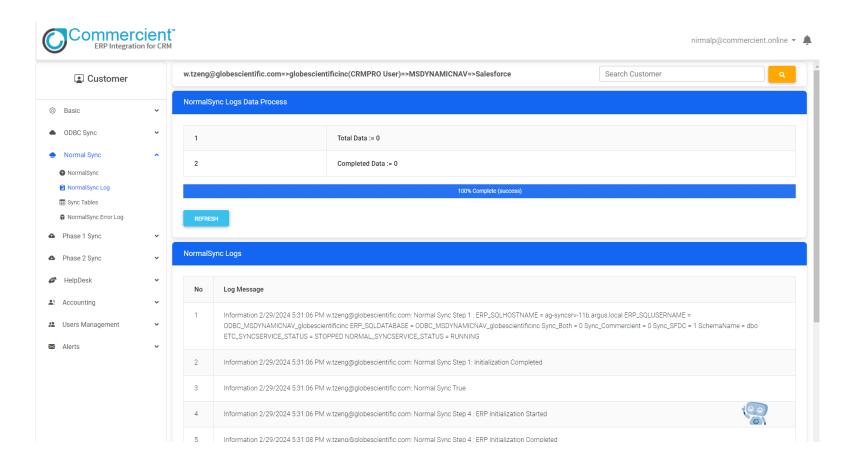


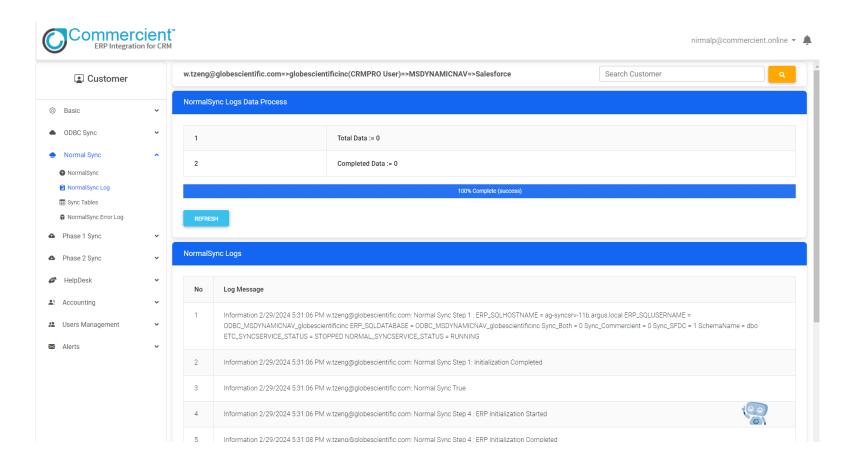
Admin Login



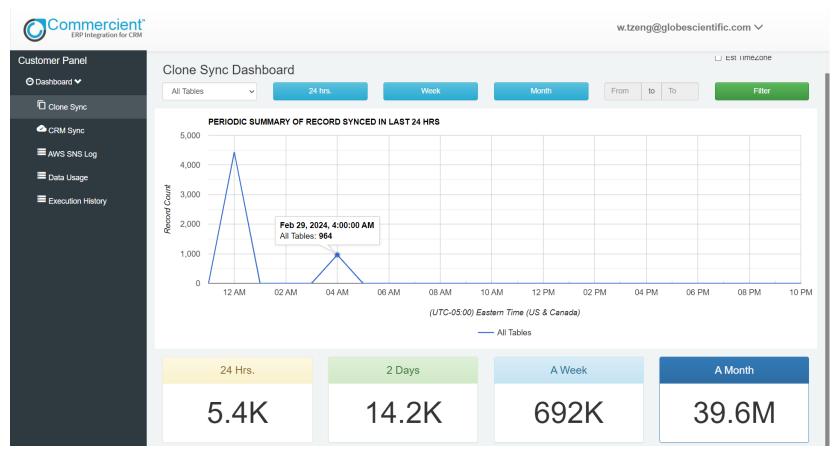




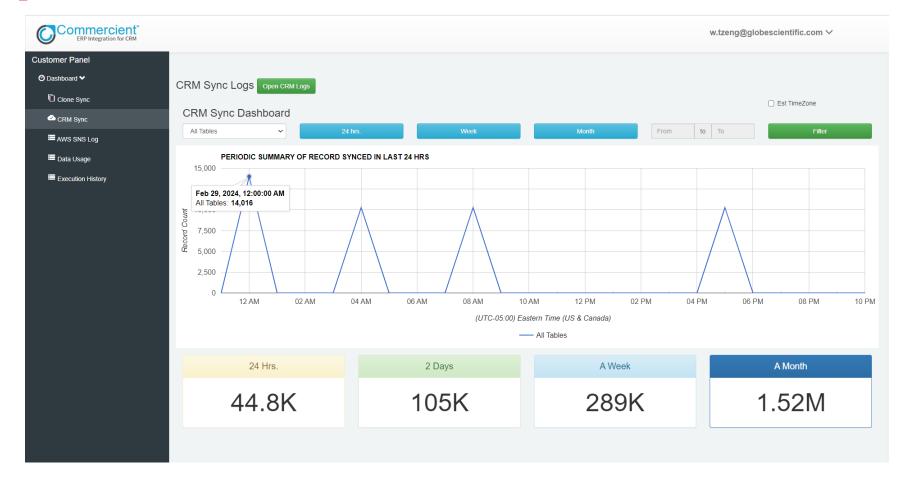




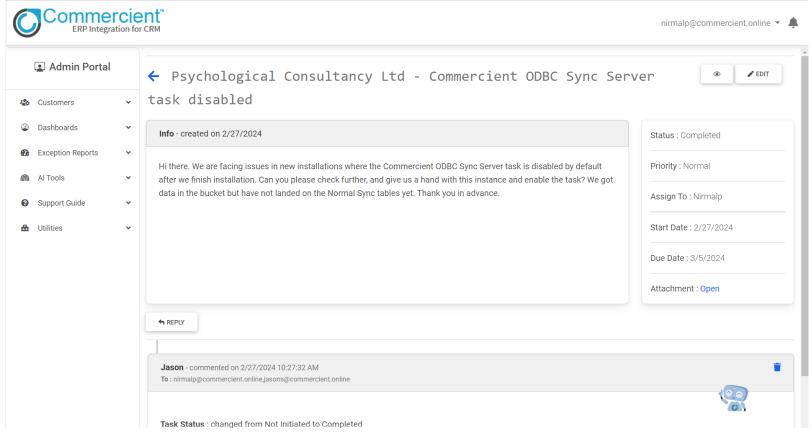
Customer SYNC Dashboard



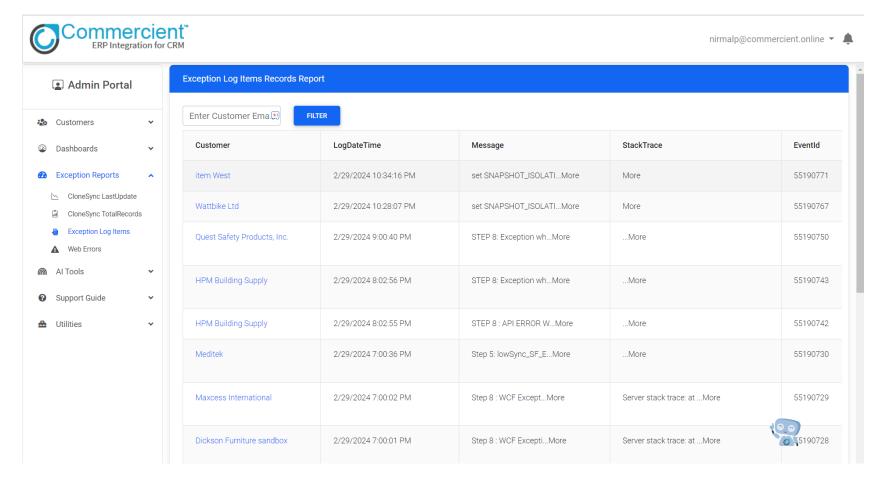
CRM SYNC Dashboard



Mojo Tickets



Exception Logs



Proposed Enhancement

In Existing system, if the customer have problem with sync they refer the blogs or documentation but in proposed system, the latest LLM Model works on the previous tickets and documents and based on that data providing the solution and automate the sync process also predicts the future tends and increase the sales.

Conclusion

In conclusion, the CRM and ERP integration tool offers streamlined operations, informed decision-making, and enhanced customer engagement. By combining CRM and ERP functionalities seamlessly, it provides organizations with a comprehensive solution to optimize processes and stay competitive in the market.

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Thank you