

Innovative Solutions for Vehicle Order and Pay-Off Workflow

In the ever-competitive automotive industry, streamlining workflows and leveraging automation are key to success. This case study details how Invimatic partnered with a leading automotive services company to achieve just that. We implemented a comprehensive workflow management system, integrated key services, and automated notification and valuation processes, significantly improving their vehicle sales and payoff operations.



Complex Workflows: Managing vehicle sales inquiries and payoff requests

Challenges

- required a standardized yet flexible workflow system. • Outdated Notification System: The existing notification system lacked
- efficiency, hindering timely processing and communication. Third-Party Integration: Integrating with the Canadian Black Book (CBB) for
- accurate vehicle valuation was challenging due to inconsistent data handling and high service charges. • User Experience: Providing a seamless and intuitive interface for users to
- submit inquiries and receive quotes was crucial. • Vehicle Type Differentiation: Differentiating between general and fleet

vehicles required tailored workflows and integrations to accommodate

different data needs.

Here's how it transformed their operations:

Solution Offered

We partnered with the client to develop a user-friendly and efficient workflow management system.

Vehicle Order Form (VOF) and Pay-Off Quote Workflow

to inquire about selling either type of vehicle.

 Utilized a Questionnaire to gather necessary details, generating a PDF for user review. Structured the workflow into WorkflowGroups, StageGroups, and Stages

Developed workflows for both general and fleet vehicles, allowing users

- with specific questions.
- **Question Authoring**

· Questions are categorized and linked to specific stages within the workflow.

the workflow.

payoff inquiry processes.

Designed an authoring tool for creating and managing questions used in

Workflow Setup

Each workflow consists of multiple stages with specific questions to gather relevant information.

Configured workflows that guide users through the vehicle sale and

Workflow Group Grouped multiple related workflows into WorkflowGroups, allowing for

Configuring Stage Groups

 Set up StageGroups within workflows, defining the sequence and conditions for each stage. Each StageGroup contains multiple stages

easy management and assignment based on user requirements.

review.

Review Stage

with predefined questions.

Questionnaire to PDF Mapping · Implemented a system to map user responses from the questionnaire to a structured PDF document. The PDF is generated automatically at the end of the workflow for user

· Added a review stage where users can examine the generated PDF and provide final approval or request modifications.

Implemented a robust notification system using Azure Queue, ensuring

Notification Engine

 Messages were triggered upon completion of each stage, pushing notifications for the next steps.

Created a reusable form to handle various questions dynamically.

timely messages and workflow progression.

· This form interacted with the API to check for pending questions and notified users accordingly.

transparency.

Generic Questions Answering Page

minimizing redundant queries.

Canadian Black Book (CBB) Integration

Integrated CBB service to fetch and store vehicle valuation data,

· Stored detailed data including VIN, UnitID, various price points, and

request metadata for efficient future queries. · Implemented features to refresh data based on the latest data version, ensuring up-to-date valuations.

Developed termination charts to be initiated by field administrators and

Sales/Service Representatives (SARs). Enabled termination charts to track the status and details of vehicle payoff requests, ensuring comprehensive record-keeping and process

Termination Charts by Field Admin and SAR

- **Technical Stack**
- SQL Server

Streamlined Workflow

Enhanced Notification System

errors.

service.

Improved turnaround time for generating and approving payoff quotes.

Results

 Efficient stage-based notifications ensured timely communication and task progression.

Reduced service charges by minimizing redundant queries to the CBB

· Accurate and up-to-date vehicle valuations improved decision-making. **User-Friendly Interface**

Improved Data Handling and Cost Efficiency

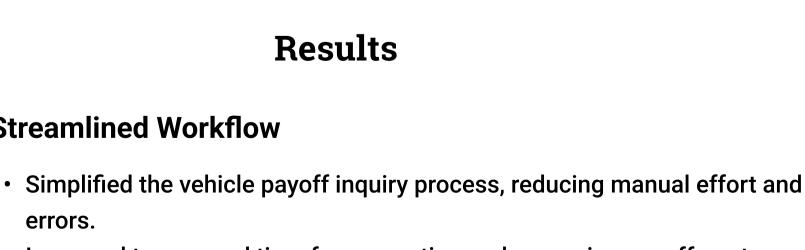
facilitating smooth interactions with the system.

Intuitive forms and notifications enhanced the user experience,

Conclusion

By partnering with Invimatic, client achieved significant improvements in workflow efficiency, data handling, and user satisfaction. Our solutions streamlined their operations, reduced costs, and provided a robust foundation for future growth and scalability. It shows Invimatic expertise in advanced technology to solve complex workflow and integration challenges, ultimately delivering a more efficient and userfriendly system.





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