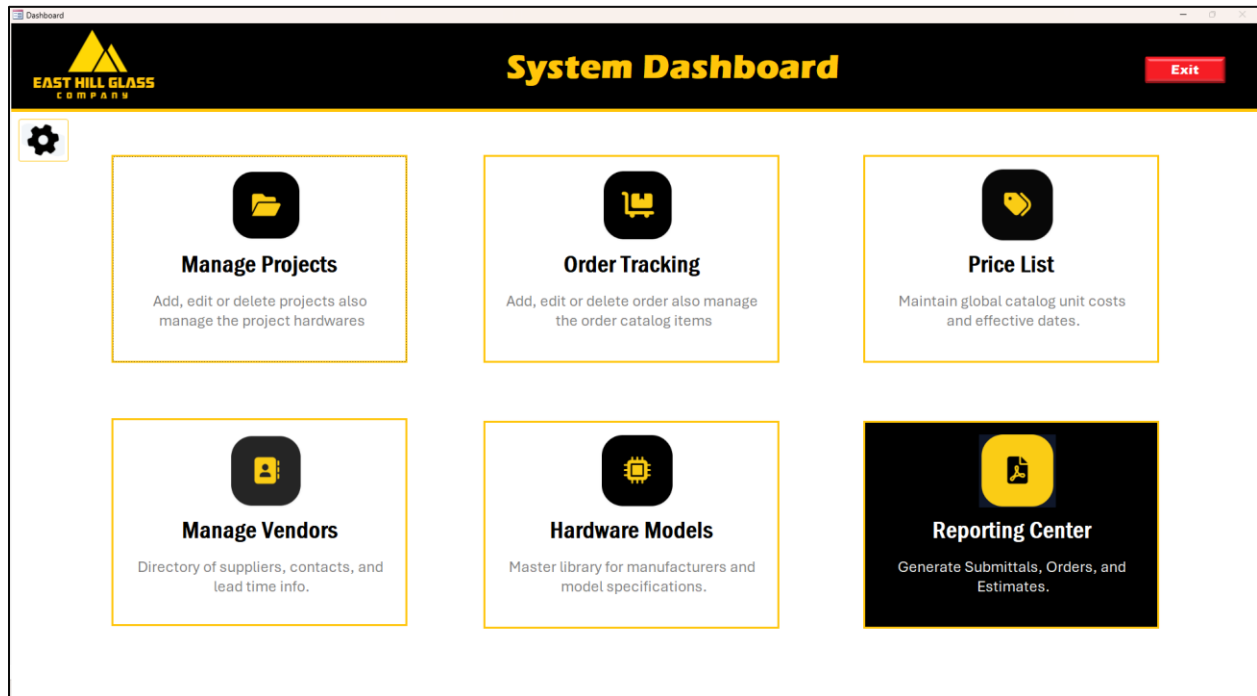


Commercial Glazing & Architectural Hardware ERP

Admyon Systems

Building Smarter Business Solutions



Project Overview

The Commercial Glazing & Architectural Hardware ERP is a highly specialized estimating and procurement platform designed for the commercial door, glass, and hardware industry. It digitizes the complex process of managing architectural openings, linking specific hardware models and frame specifications directly to vendor catalogs to automate project submittals and accurate cost estimates.

Business Problem

Managing "Division 8" (Doors & Hardware) in commercial construction is notoriously detail-oriented. A single building can have hundreds of openings, each requiring specific Hollow Metal (HM) frames, wood doors, and precise hardware sets (closers, kick plates, locksets). When estimators rely on spreadsheets, catalog prices become outdated, hardware sets get misconfigured, and creating accurate architectural submittals or manufacturer buy lists takes weeks of manual, error-prone data entry.

Our Solution

Admyon Systems developed a custom architectural ERP that centralizes the entire estimating and procurement lifecycle. The platform features a dynamic "Project Openings" matrix where estimators can configure exact door widths, frame gauges, and hardware sets for every single doorway in a project. By linking these specifications to a live master catalog of industry-leading manufacturers (e.g., Schlage, LCN, CR Laurence), the system instantly generates accurate cost estimates, markup calculations, and automated manufacturer-specific order lists.

Key Features

- Dynamic Project Openings Matrix (Configuring Dimensions, Frame Types, and Gauges)
- Architectural Hardware Library (Grouping Closers, Locksets, and Hinges by Manufacturer)
- Automated Cost Estimating Engine (Unit Cost Snapshot + Markup + Tax)
- Vendor & Catalog Pricing Management (Tracking Effective Dates)
- Automated Submittal Generation (HM Door, Wood Door, and Hardware Schedules)
- Manufacturer-Specific Procurement Buy Lists

Technologies Used

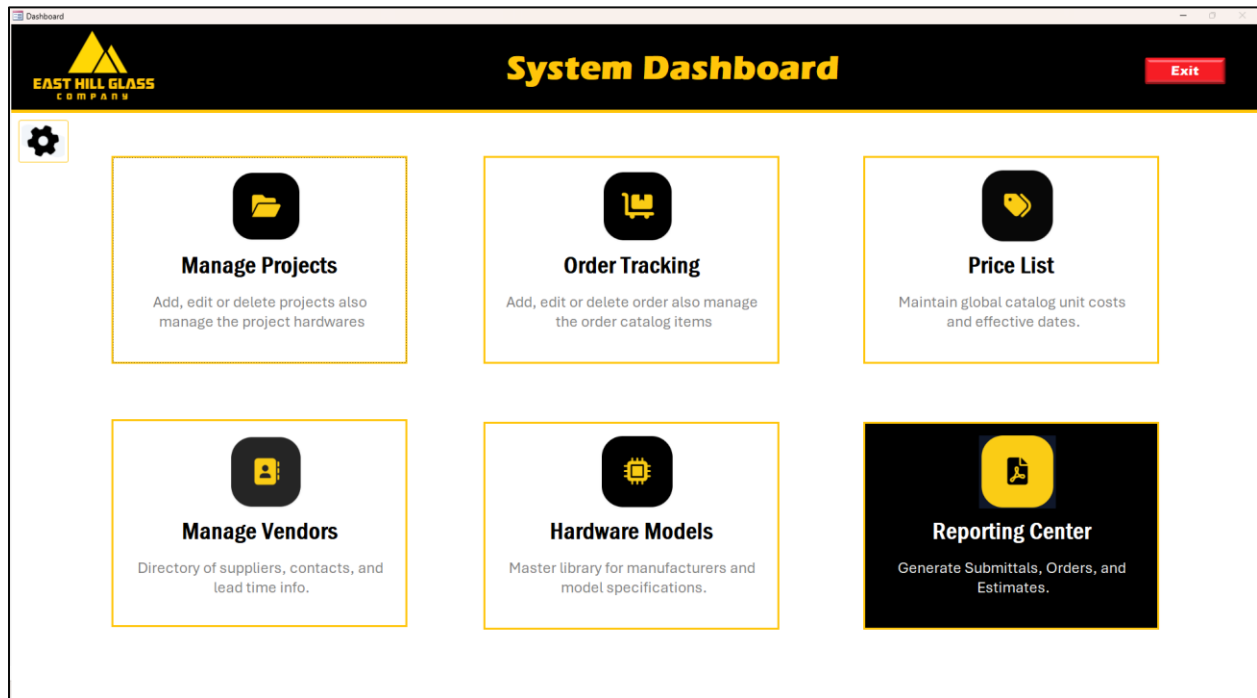
Technology	Used
Microsoft Access	✓
VBA (Visual Basic for Applications)	✓

System Modules

- System Dashboard
- Manage Projects & Openings Matrix
- Hardware Models Library
- Catalog Items & Price Lists
- Vendor Directory
- Order Tracking & Order Lines
- Reporting Center (Submittals & Estimates)

Screenshots

System Dashboard



A clear, high-contrast operational hub allowing commercial estimators and project managers to easily navigate between project configurations, hardware libraries, and procurement tracking.

Project Details & Openings Matrix

Project Details Form

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Project Details Form

Project Information

Project #

3030-101

Project Name

Heritage Apartments 1

Tax Rate

5.0%

Status

Active

Client Name

Greenfield Elementary School

Markup Rate

25.0%

Project Openings

Open Num	Open Leaf	Door Wt	Door Ht	Door Th	Door Sw	Hdw Set	Rating	Door Type	Door G	Frame Ty	Frame Ga	Frame Th	Frame Ht	Frame An	Open Sing Pair
		2'-0"													X
															X

Project Hardwares

Project	Set	Model	Finish
3030-101	1.0	9	
3030-101			

Save

A highly advanced architectural interface where estimators configure every physical doorway in a project, detailing exact dimensions, Hollow Metal (HM) frame thicknesses, and assigning specific hardware sets to individual opening numbers.

Hardware Model Library

Manage Hardware Model

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Manage Hardware Models

Search by Model, Mfg or Hdw Desc

Search

Clear

Add New

Model ID	Model	Mfg	Hdw Desc	Sale Price	Actions
1	1450	LCN	Surface Closer		View/Edit X
2	ALX40-ATH	Schlage	Privacy Lockset		View/Edit X
3	ALX10-ATH	Schlage	Passage Lockset		View/Edit X
4	3SP1 4.5x4.5	Ives	Spring Hinges		View/Edit X
5	FS436	Ives	Floor Stop		View/Edit X
6	SR64	Ives	Silencers		View/Edit X
7	K1050 8x34	Rockwood	Kick Plate		View/Edit X
8	3CB1 4.5x4.5	Ives	Mortise Hinges		View/Edit X
9	8301	Norton	Surface Closer		View/Edit X
10	CD 12x12 SA Tubular	CR Laurence	Push-Pull		View/Edit X
11	DR4 SSA 12S	CR Laurence	Door Sill		View/Edit X
12	DCH SAS	CR Laurence	Door Header		View/Edit X
13	9160	CR Laurence	Closer		View/Edit X
14	1555	Don-Jo	Flush Bolt		View/Edit X

Total Orders : 14

The master directory of commercial hardware, categorizing essential components (e.g., Surface Closers, Privacy Locksets, Kick Plates) by industry-leading manufacturers like Schlage, LCN, and Ives.

Hardware Model Details

Hardware Model Details Form

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Hardware Model Details Form

Hardware Model Information

Hardware ModelID

1

Model

1450

Mfg1

LCN

Descript

Surface Closer

SalePrice

Model Hardware

Project	Set	Model	Finish
3030-101	1.0	9	
		9	

Save

A granular configuration screen linking specific hardware models (e.g., LCN 1450 Surface Closer) directly to project-specific hardware sets and required architectural finishes.

Catalog Items & Vendor Pricing

Catalog Item Details Form

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Catalog Item Details Form

Project Information

Catalog Item ID

1

Item Name

Category

Manufacturer

Hager

Model Number

HAG-8339

Unit

EA

Item Catalog Prices

Vendor Name	Unit Cost	Effective Date
Prairie Supply	70.7	8/17/2025

Save

A dynamic pricing module that tracks unit costs from specific suppliers (e.g., Prairie Supply), capturing effective dates to ensure that long-term project estimates remain financially accurate over time.

Report Center (Submittals & Procurement)

Manage Reports

<

REPORT CENTER
Click any report to open in Print Preview

CHOOSE ACTIVE PROJECT

3030-103

ARCHITECTURAL SCHEDULES

Wood Door Schedule

Detailed specs per opening

HM Door & Frame Schedule

Material gauges ,anchors

Hardware Schedule

Grouped by Hardware Sets

PROCUREMENT LISTS

Wood Door Order List

Total counts by attributes

HM Frame Order List

Profiles ,jamb depths summary

HM Door Order List

Aggregated buy list for Mfg

Hardware Master Buy List

Project-wide totals by Model

FINANCIAL REPORT

Project Cost Estimate

Snapshot Price + Markup + Tax

An automated document generation hub that instantly compiles the project data into vital construction documents, including Architectural Door/Hardware Schedules, Manufacturer Buy Lists, and finalized Project Cost Estimates.

Business Benefits

- ✓ Drastically reduced estimating time by automating Snapshot Costs, Markups, and Tax calculations
- ✓ Eliminated ordering errors by automatically aggregating hardware sets into manufacturer-specific Buy Lists
- ✓ Streamlined architectural approvals by instantly generating professional Wood, HM, and Hardware schedules
- ✓ Protected profit margins by strictly tracking vendor price changes and catalog effective dates
- ✓ Provided absolute clarity over complex commercial projects with a centralized, opening-by-opening matrix

Project Highlights

- Division 8 Industry Logic
- Architectural Openings Matrix
- Automated Hardware Schedules
- Dynamic Markup & Estimating
- Manufacturer Master Catalogs

Future Enhancements

Future versions of this system may include:

- Bluebeam/AutoCAD API integration to extract opening dimensions directly from architectural floor plans
- Automated generation of PDF Submittal packages, pulling manufacturer spec sheets and warranty documents
- Barcoding integration for the warehouse to scan and stage hardware sets by "Opening Number" prior to job site delivery
- A revision tracking system to manage architectural changes (Delta notes) after initial project approval

Project Summary

The Commercial Glazing & Architectural Hardware ERP proves Admyon Systems' exceptional ability to engineer software for highly technical, specification-heavy industries. By translating complex architectural requirements into streamlined estimates and automated procurement lists, the platform provides commercial glazing and hardware firms with a massive competitive edge in the construction bidding process.