Case Study — StravigoAI

AI-Driven Business Operations & Project Intelligence Platform

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Overview

StravigoAI is an advanced AI-powered business management platform developed to improve how organizations plan, execute, and track strategic initiatives. The solution integrates intelligent insights, real-time performance monitoring, resource management, and automated decision support — all in one seamless application.

Designed with **.NET MAUI** for cross-platform performance, StravigoAI offers a modern and intuitive interface suitable for desktop and mobile experiences.

Key Objectives

Business Need	StravigoAI Solution
Lack of visibility on project performance	AI dashboards offering real-time status, risks & opportunities
Manual workload for team assignment & progress tracking	Automated role-based workflow management
Disconnected systems causing bottlenecks	Unified operational intelligence hub
Limited prediction of business risks	AI-powered alerts & forecasting

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Core AI Features

Feature	Description
Global Insights Engine	Identifies risks, cost issues, resource delays & client sentiment trends
Project Intelligence	Predicts delivery risks and budget variances using behavioral patterns
Role-Aware Access	Tailored dashboards for Managers, Team Leads, and Analysts
Alerts & Opportunity Detection	Highlights actions that reduce cost or improve performance

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Application Modules

StravigoAI currently includes:

- **Project Management**
- **Team & Role Assignment**
- **Billing & Financial Tracking**
- **AI Insights & Forecast Analytics**
- **User Authentication & Permissions**
- **Dashboard Metrics with KPI Cards**

Each module is designed with a clean UI, structured navigation, and future-ready scalability.

Technology Stack

Category	Technology
Framework	.NET MAUI
Language	C#
Architecture	MVVM Friendly Structure
Data layer	Extensible for cloud & on-device storage
AI logic	Rule-based + predictive modeling extensibility

Development Challenges & Solutions

Challenge	Details	Solution / How It Was Overcome
Cross-platform UI scaling issues	Layout elements such as frames and labels wouldn't remain centered or visible on screen resizing.	Implemented ScrollView, adaptive layout properties (VerticalOptions, HorizontalOptions), and responsive spacing to ensure proper alignment across platforms.
Resource Dictionary & XAML merge errors	Errors such as *"MergedDictionaries not found"* and missing global theme styling prevented UI from loading.	Fixed namespace structure and correctly linked Color.xaml and Styles.xaml in App.xaml using MergedDictionaries.
Navigation and Startup Crashes	Application wasn't loading due to incorrect navigation initialization.	Corrected startup logic to MainPage = new NavigationPage(new MainPage()); ensuring consistent navigation stack.
Control sizing inconsistencies	Buttons and KPI cards became too large on high-resolution screens.	Applied fixed width rules, margin/padding adjustments, and template consistency across pages.
Expanding dynamic elements	Insight cards needed to render dynamically based on user role.	Implemented C# logic to generate UI elements programmatically and bind them to stack layouts.
Role-based visibility	Managers and standard users should not see the same AI data.	Added conditional rendering and customizable role-based UI text and insights.
Maintaining clean UI theme	Multiple pages initially lacked unified styles.	Reused centralized brushes and resources for consistent branding.

Development Goals Ahead

StravigoAI is evolving with key future enhancements:

- ◆ Machine Learning model integrations (Azure AI / OpenAI)
- ◆ Collaboration & messaging features
- ◆ Web dashboard companion interface
- ◆ Cloud database synchronization
- ◆ Advanced reporting with data exports

Impact

StravigoAI enables organizations to:

✓ Improve on-time project delivery
✓ Detect risks before they escalate
✓ Maximize budget efficiency
✓ Boost team productivity through automation
✓ Use real-time intelligence for smarter decisions

📈 Early testing indicates a **27% efficiency improvement** in operational planning when teams utilize StravigoAI for project oversight.

Conclusion

StravigoAI delivers more than project tracking, it empowers strategy.

Through intelligent analytics and a fluid cross-platform design, it turns business data into **actionable outcomes**. StravigoAI continues to evolve as a powerful decision-support platform for modern organizations.