



Aspire cuts project costs by **40%** for a leading US Facilities Services firm through **GenAI-led transformation**





Challenges and Needs

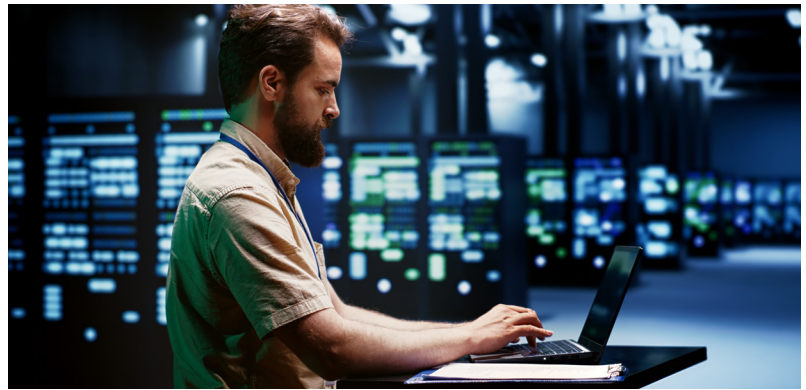
- **Fragmented contractor data across multiple CRM tools**
- **Need to modernize contractor selection and onboarding**
- **Required multi-tenancy for merging acquired companies**

Solutions

- **Developed a MACH-compliant application, leveraging GenAI for streamlined contractor management**
- **The re-architected microservices-based approach ensures scalability and future adaptability**

About the Customer

Our client stands as the United States' largest privately held specialist in trade installation and facilities services, recognized for their expertise in designing, building, and maintaining electrical, technological, and other specialty systems. With a workforce exceeding 5,000 nationwide, they are dedicated to supporting customers and tackling challenges, no matter the size or complexity, through a combination of direct work and subcontracting.



The Challenge and the Need

- Our client had a recent acquisition, and with the growing business they faced data fragmentation across multiple CRM tools, hindering operational efficiency. This disjointed CRM landscape, with contractor data scattered across various platforms, demanded a unified solution. Their primary need was to consolidate this data and streamline the contractor onboarding process:
- An essential requirement emerged for a modernized application to optimize contractor selection and onboarding processes.
- The new system had to possess robust multi-tenancy capabilities to seamlessly integrate acquired companies and their data.



Benefits

- **Reduced time to build API components and boosted productivity with GenAI**
- **Consistent code quality with improved SonarQube results due to GenAI**
- **Achieved code coverage with added unit tests through GenAI**
- **20–25% reduction in overall development effort**
- **40–50% reduction in unit test creation effort**
- **Slashed project costs by up to 40% with GenAI and best practices**

The Solution

To address the client's challenges and needs, Aspire undertook the task of modernizing their legacy application through a comprehensive solution:

- Developed a MACH- compliant, user-friendly and efficient application for managing contractor interactions with the help of GenAI
- Our solution also involved modernizing their legacy application by re-architecting using a microservices-based architecture for enhanced scalability and future growth
- Entity Framework was used as the ORM for handling database read and write operations





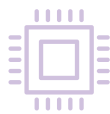
Benefits

The collaboration between Aspire and one of the largest Facilities Management & Installation Services companies in the US yielded impressive outcomes through the integration of GenAI capabilities into their Contract Management Application.

- **Accelerated Development & Productivity** - GenAI significantly reduced the time to build API components, enabling faster releases and enhancing overall team productivity.
- **Improved Code Quality** - The integration of GenAI helped ensure consistent code quality, as reflected in improved SonarQube scores, minimizing the risk of defects and technical debt.
- **Enhanced Code Coverage with Automation** - By leveraging GenAI to automatically generate unit test cases, we achieved comprehensive code coverage with minimal manual effort.
- **Reduction in Development Effort** - We achieved a **20% reduction** in overall development effort, allowing the engineering team to focus more on strategic enhancements.
- **Efficiency in Test Case Creation** - GenAI-led automation helped achieve a **40% reduction** in the effort required to create unit tests, accelerating the validation cycle.
- **Substantial Cost Savings** - Through the adoption of GenAI, best practices, and automation, the project realized **up to 40% cost reduction**, enhancing overall ROI and delivery efficiency.



Technology Snapshot



- » **.Net 6**
- » **Angular 15**



Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

For more info contact: info@aspresys.com or visit www.aspiresys.com

USA

+ 1 630 368 0970

SINGAPORE

+65 3163 3050

INDIA

+91 44 6740 4000

BELGIUM

+ 32 3 204 1942

NETHERLANDS

+ 31 (0)30 800 92 16

POLAND

+48 58 732 77 71

MEXICO

+52 222 980 0115