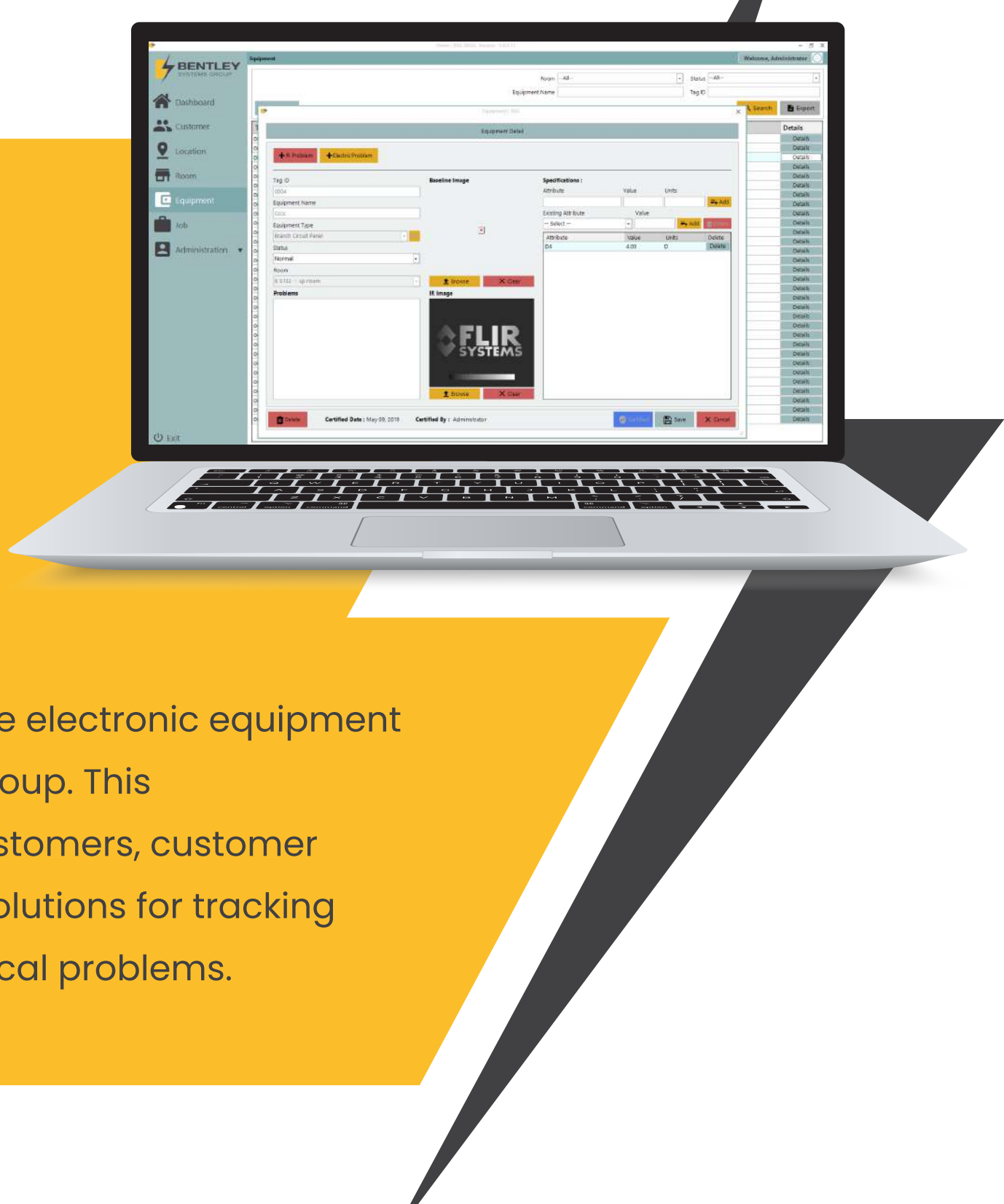


Internal Operation & Task Management Application

Powerful desktop applications built by the ExcellHunters team that cater to client's specific needs and challenges.



About Project

BSG, short for Bentley System Group, was developed to address the electronic equipment maintenance needs of the Canadian company Bentley System Group. This comprehensive application enables BSG to efficiently manage customers, customer locations, rooms, and room-specific equipment. It also provides solutions for tracking and resolving issues related to equipment, including IR and electrical problems.



About the Client

The client, Frederick Ferguson from Ontario, Canada, specializes in electronic equipment maintenance and contracts with companies to manage servers nationwide. They needed a solution to streamline the management of customer locations and equipment, enhance issue tracking, and improve overall efficiency.

Client's Challenges

The client faced several challenges before implementing BSG



Equipment Issue Tracking:

They struggled to track which equipment in specific rooms had issues, leading to inefficiencies in maintenance.



Task Management:

Managing and allocating tasks for issues, particularly IR and electrical problems, was a complex and manual process.

Project Challenges

The primary challenge in this project was integrating the FLIR (Forward-Looking Infrared) library into the application. Additionally, creating an algorithm to identify the highest temperature point from an image using color sensing was a significant hurdle.

Our Solutions

ExcelHunters devised an innovative solution to address these challenges:

FLIR Integration

The FLIR library was successfully integrated, allowing engineers to capture thermal images of equipment. This enables the engineer to mark the temperature of a particular point from an image. Engineers can mark temperature from three points simultaneously.

Temperature Highlighting

An algorithm was developed to automatically locate and highlight the highest temperature point on thermal images, aiding in issue detection.

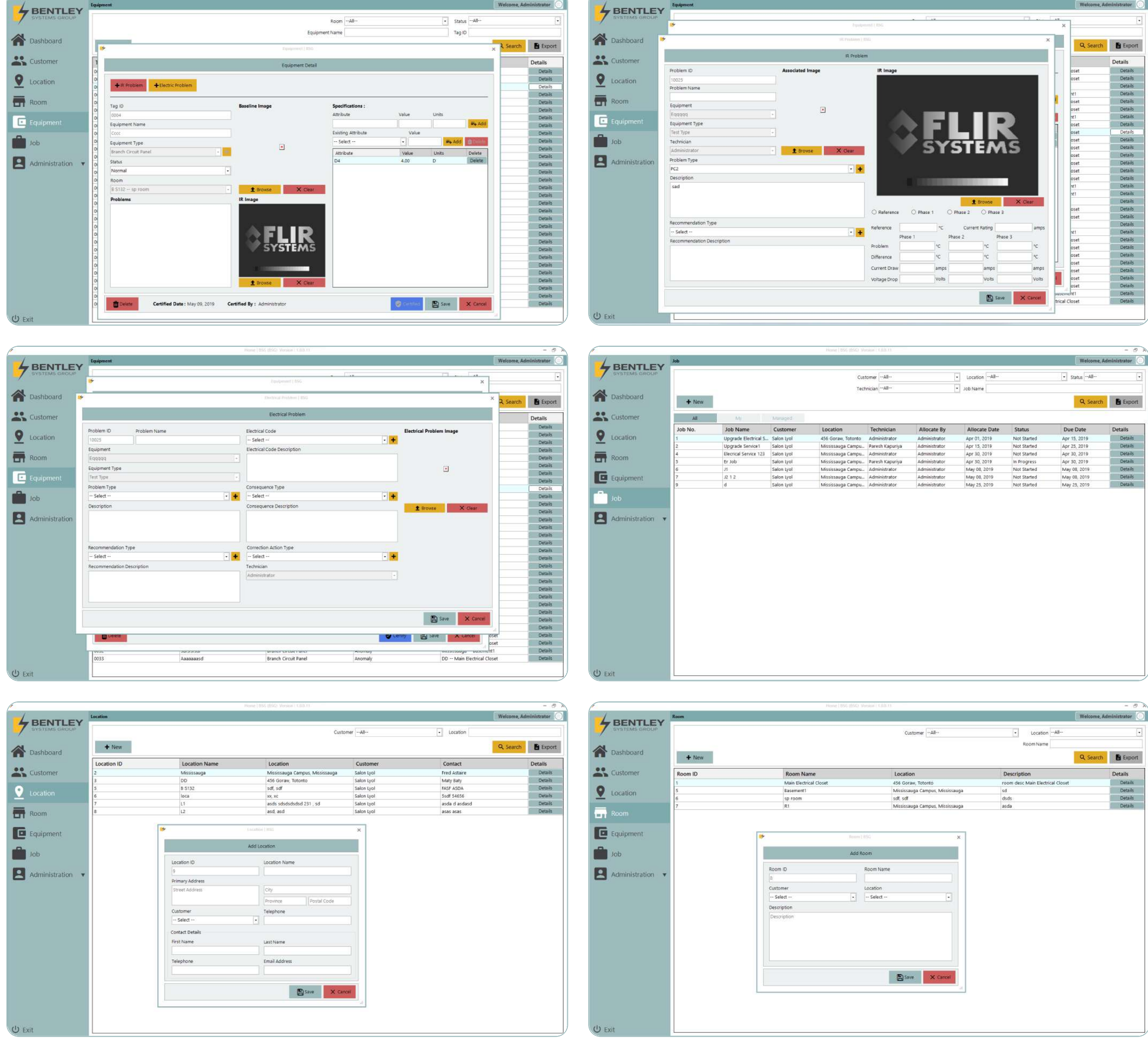
User-Friendly Interface

An intuitive interface was created, enabling engineers to click on an image and view the corresponding temperature, simplifying issue resolution.

Comprehensive Reporting

engineers can now export detailed issue reports, including fixes, and share them with clients and management for a more transparent workflow.

Screenshots of BSG



Top Features of BSG Web Application:

ExcelHunters devised an innovative solution to address these challenges:

Customers

Manage customer information efficiently.

Locations

Organize customer locations for streamlined operations.

Issue Tracking

Efficiently log and track issues, including IR and electrical problems.

Rooms

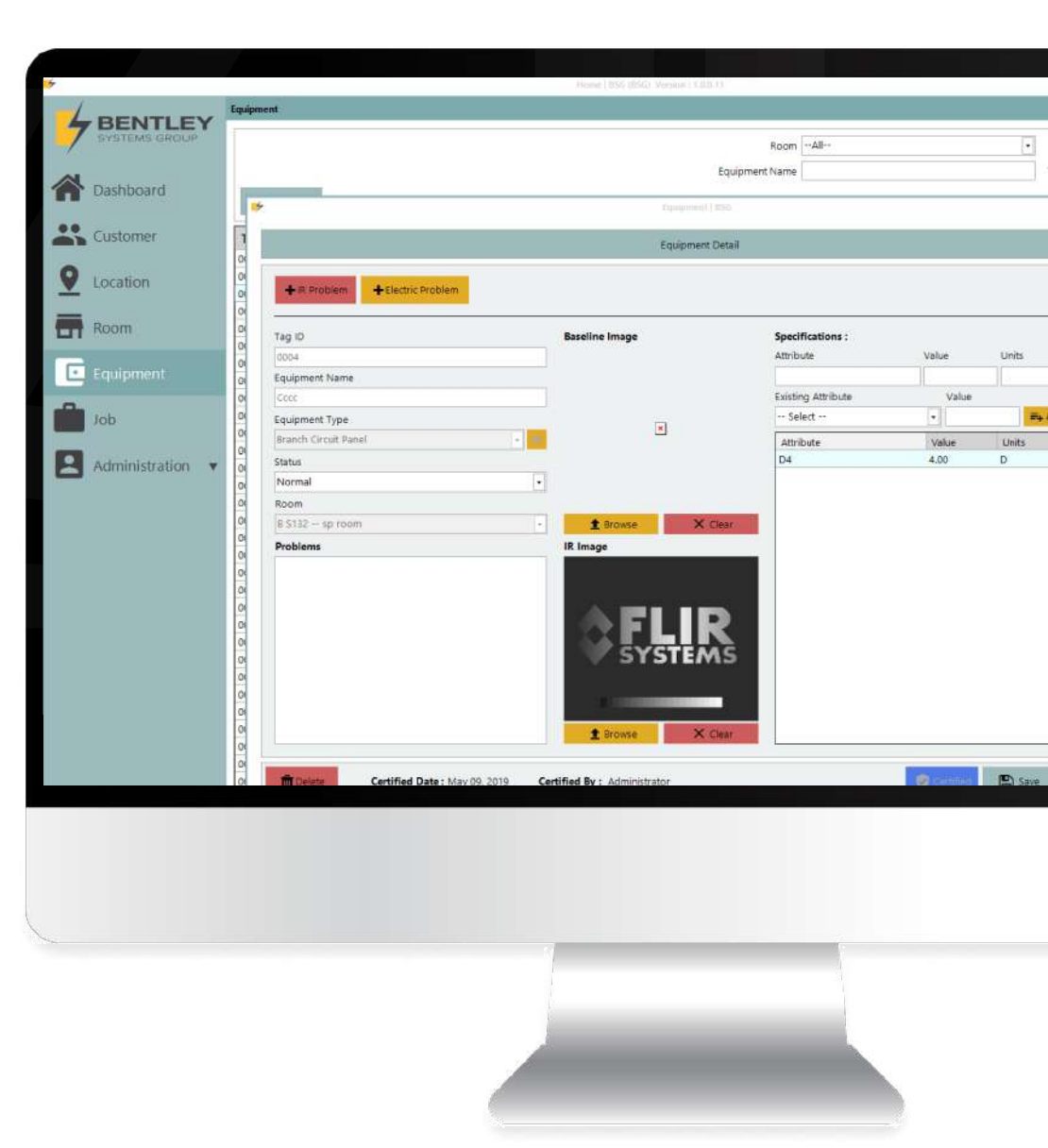
Keep track of rooms and their equipment.

Issue Allocations

Allocate tasks to engineers based on the nature of the issue.

Equipment

Detailed equipment management, including issue tracking



Results

The implementation of BSG brought significant improvements:

Efficiency

Streamlined equipment management and issue tracking significantly improved efficiency.

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Streamlined equipment management and issue tracking significantly improved efficiency.

User Satisfaction

The user-friendly interface received positive feedback from engineers.

FLIR Integration

The FLIR library integration enhanced issue detection and resolution.

Client's Review

This was the first time I did a project of this size with Upwork. My project was a workflow management application for electrical thermography with FLIR infrared cameras. I reviewed a number of quotes and selected the ExcellHunters Team. I am completely satisfied and would recommend him for any similar project. Of particular note is that Paresh did his independent research on FLIR SDK and figured out how to read the images. Great communication, work ethic, and results.

Do You have a Similar Project to Build?

We are the top choice of 100s of Fortune 500 companies and industry leaders worldwide. We migrate your legacy system without making any changes in data or workflows.

Get in touch with us now!

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