



Cygnets **Infotech**  
IT is about you

# Demolition Project Management Solution

for effective resource allocation  
and added transparency in  
operations

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## Client Profile

Our client is a leading service provider in the Ground and Demolition industry in Europe with their scale of operations extending across the entire country. They are considered as experts in their field specializing in providing a wide range of services from stripping buildings, asbestos removal, complete or partial demolition work, earthworks and any associated remediation work, as well as processing debris and waste.

With projects in the Netherlands, Luxembourg, Brussels and France, they are also internationally active with a separate branch for France and a permanent presence in the northern departments and in the Paris capital.

The company has completed many small, medium, large and very large projects. Safety and the environment have always been their priority.

## Business Scenario

The client company use to plan projects using excel that created multiple issues when it came to maintaining data accuracy. They missed out on opportunities to take up exciting business despite having resources on hand. The employees were habituated in dealing with labor and operating machinery.

However, it was a challenge to plan things accurately and quickly on the computer with a single click. They needed the information on the screen with just a click so their time and resources would be saved.

In addition, they also needed to make changes to the project plan once it became operational. They had been using MSNavision system to maintain their data. Moreover, they were completely reliant on MSNavision which made it nearly impossible for them to take their data down and switch to a new system. For the employee payment, data needed to be sent back to MSNavision at the end of each working day.

Cygnit Infotech had to integrate its solution with MSNavision where Master Data would be fetched directly from the system and activity planning could be carried out in the new system.

## Business Challenges

- The workforce was not techno savvy
- Inaccuracy in data entry and updates
- Missing out on projects due to inaccurate resource availability assessment
- Completely dependent on MSNavision for data management
- Huge data generation on a daily basis
- Cumbersome upload of employee data to the MSNavision system at the end of each day

## Proposed Solution

Engineers at Cygnet dived deep into the client's compliance, technical and advisory services that they provide to their employees. We conceptualized a project management solution that would address their daily project planning activity that included access control and business continuity.

We developed a dashboard from where a user could see a list of projects on the right-hand side and available resources including Employee, Machines and Trucks on the left-hand side. With drag & Drop, the user could allocate resources to the project.

We also provided a calendar to the user from where he could see all the upcoming scheduled projects and manage the resources of the project. Inventory and Safety modules are also there that give information to the employees or those who are working on the projects will go through the same.

Relevant documents are also assigned to the project or machines or trucks so worker/ employee could work on the same. We also provided a vendor management feature where the system would have the information about the vendor so whenever any resource, machines or trucks are needed can be available from the vendor.

A smartphone application that notified workers whenever the work had been allocated to them was also prepared. Using the mobile app, workers could report to the project manager every day upon the completion of their allocated task. The Project Manager could allocate him the new task. In this industry, it is possible that the project often demands unplanned work to be performed by the worker so we have also provided the functionality wherein the worker could report to the project manager about his task with the time duration on the basis of which his pay would get accordingly adjusted. With the help of this system the client could save lot of time as well as enjoy complete visibility of each project on the dashboard.

## Our Approach

1. Identified their actual onsite work and its scope

2. Determined concerned business processes and IT infrastructure

3. Developed complete wireframe of the system

4. Prepared Test Scenarios from the starting of the project

## Key highlights of the solution



**Comprehensive dashboard showing projects and schedules**



**Data Security in place**



**Azure Security integrated in the solution to preserve the integrity of information**



**The solution is for small, medium and large enterprises**



**This solution can run on Prem or in Cloud Infrastructure**



## Business Benefits



Saved time, reduced costs and boosted efficiency



Fostered transparent working



Flexibility of making necessary changes in the on-going project for accurate estimates



Preservation of the history of the modification for the compliance for added transparency

## Technology Stack



### TOOLS & TECHNOLOGY

- .NET Core 2.0
- EF Core 2.0
- Azure PaaS
- GraphQL



### PROGRAMMING LANGUAGE

- C#



### DEVELOPMENT FRAMEWORK & ENVIRONMENT

- .NET core 2.0 MVC
- Visual Studio 2017
- SQL Server Management Studio
- Xamarin Studio



### BROWSER COMPATIBILITY

- Chrome
- IE
- Edge
- Firefox



### DATABASE ENVIRONMENT

- SQL Server 2017
- Azure SQL Database Services

# About Cygnet

Cygnet Infotech is one of the most trusted names in the IT space delivering technology solutions to global clients across 35 countries. Born out of a vision to create software development company where quality, innovation and personalized services trump low cost, makeshift solution, Cygnet partners with its clients to help them transform in to high performance businesses.

Cygnet has deep industry and business process expertise, global resources and a proven track record in delivering innovative technology solutions. Cygnet can mobilize the right people, skills and technologies that improves business performance.



Founded in **2000**, currently with offices across **6 continents**



**1000+ Employees**  
Delivered **2000+**  
**Projects**

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