

Case Study- Web Application Design & Development

# Revamping Putzmeister's TCO Tool into a Seamless MVP Web Application

Revamped TCO tool into an MVP web application, enhancing user experience, validations, customization, security aligned with the product roadmap.

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# About the client:

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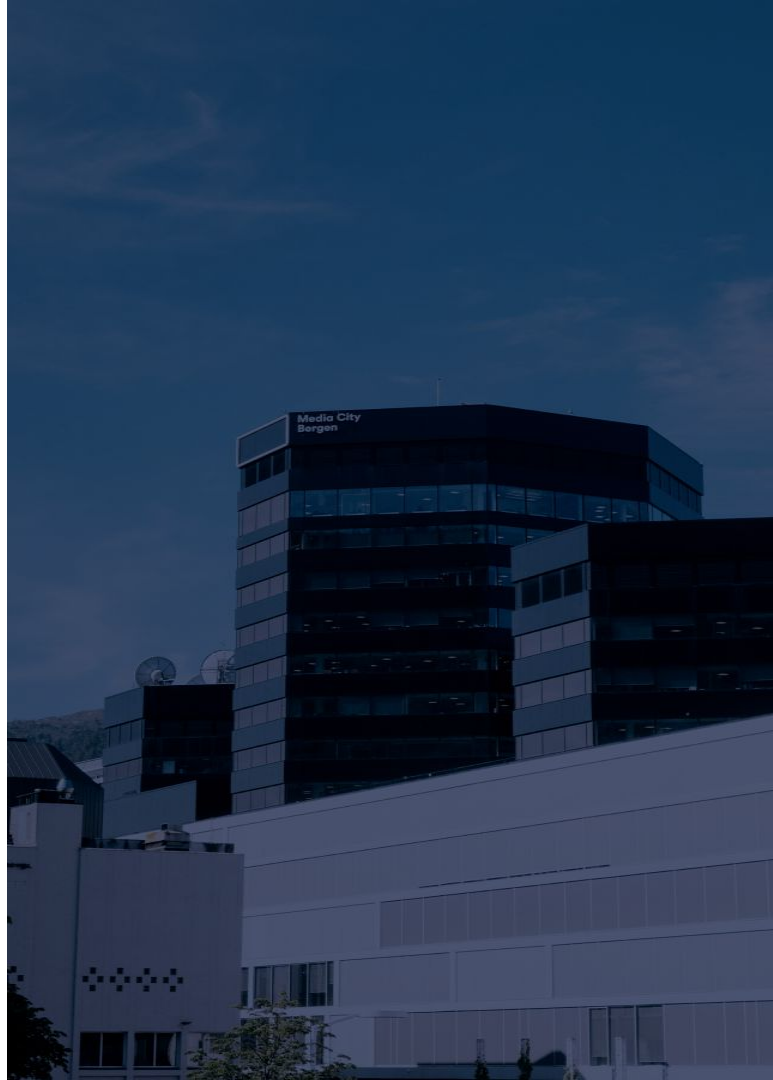
Putzmeister is a German company and a global leader in manufacturing concrete pumps and related equipment for pumping, distributing, and placing concrete, mortar, and other high-density materials.

Headquartered in Aichtal, it is the largest firm in its field, known for innovation and high-quality solutions.

With a strong reputation for reliability and engineering excellence, it serves a wide range of industries worldwide.

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# Business Challenges & Needs

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## Problem:

Putzmeister relied on an Excel-based TCO tool with several limitations:

- Lack of data validation and user guidance.
- Absence of customization options and version control.
- The tool was not user-friendly and prone to data manipulation.
- The access was limited only to those who had access to the sheet.

## Solution

To address these issues, the plan was to convert the tool into a web application:

- Enhance user experience with improved validations and guidance.
- Provide advanced customization features and prevent data manipulation.
- Implement robust version control to ensure seamless updates.
- Develop an MVP aligned with the product development roadmap to broaden accessibility.

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# Tech Solution:

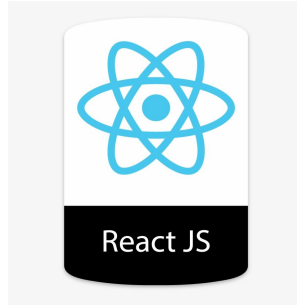
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To achieve these goals, the following technology stack was implemented:



.NET

Backend



Frontend



IT Infrastructure

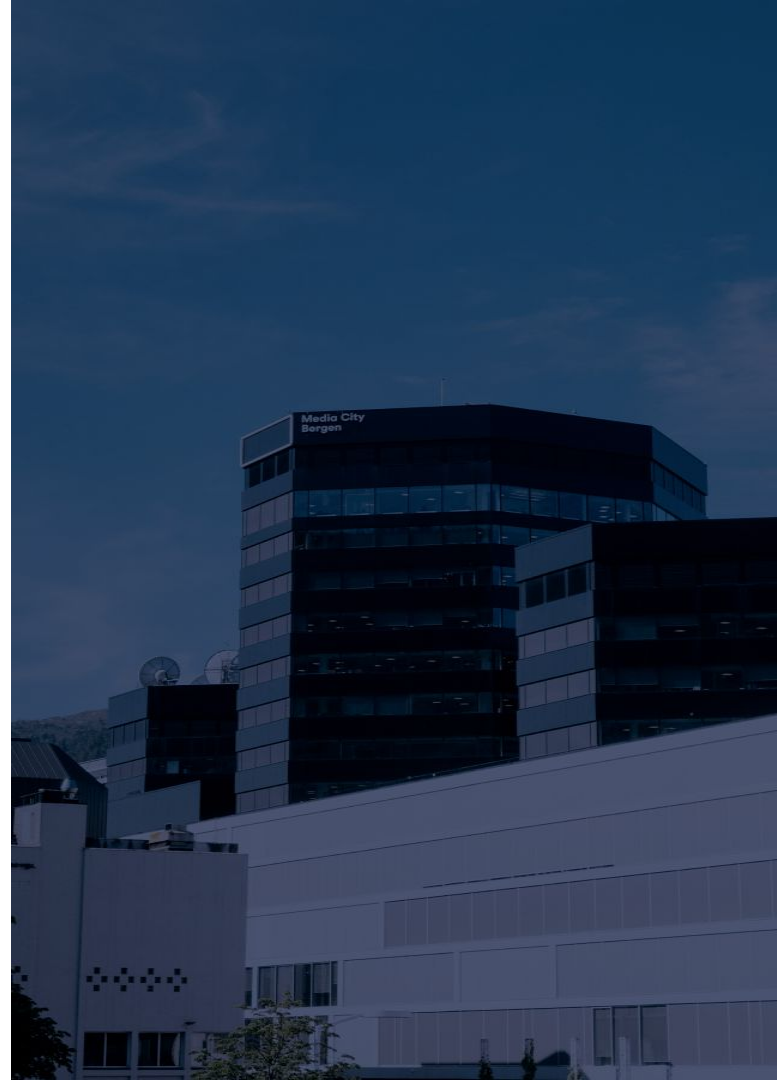
# Value Delivered:

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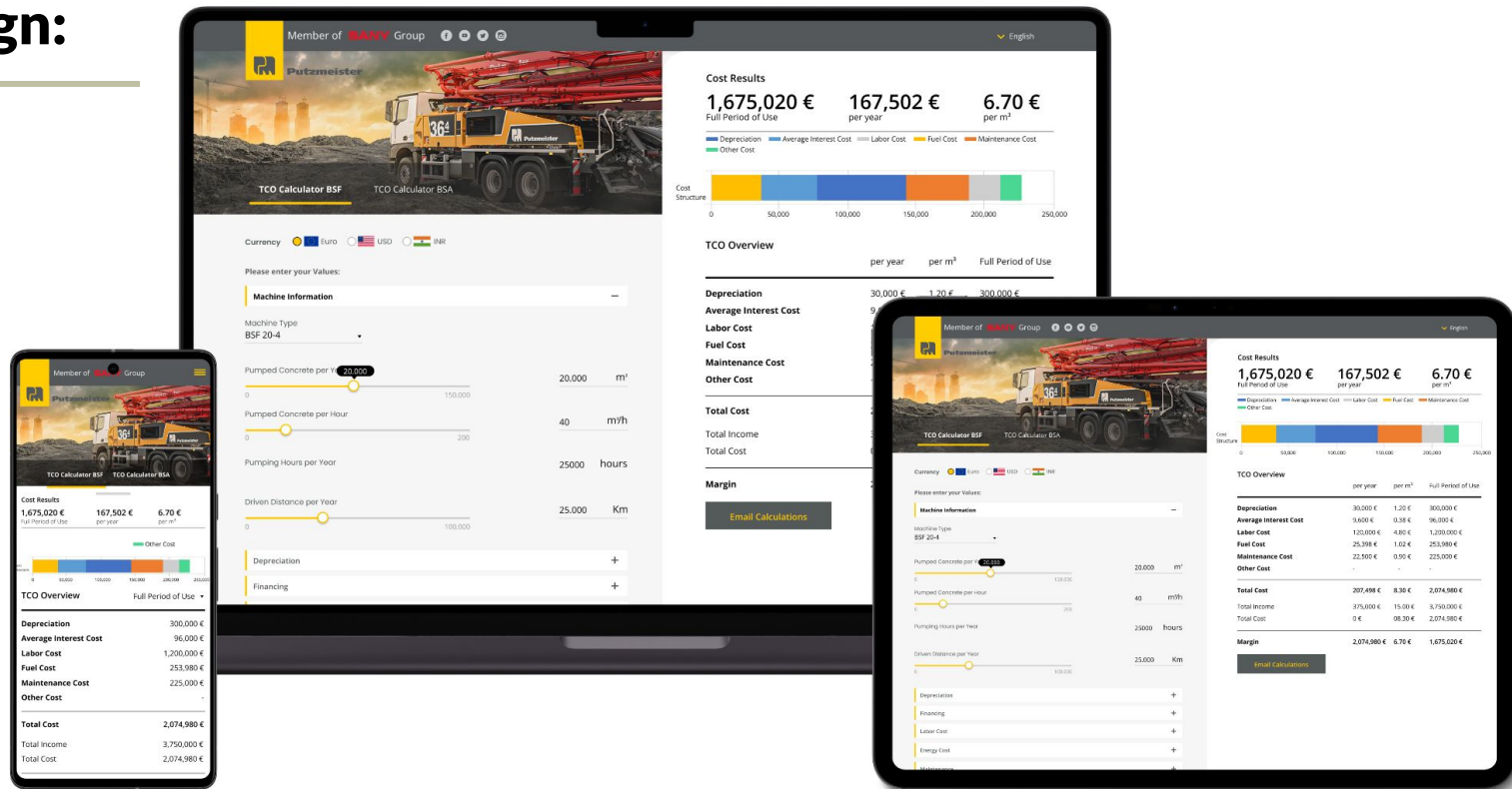
- A Single Page Web Application was created to highlight the functionality of the TCO calculator.
- Features include user input validations, intuitive design for easy data entry, and clear instructions for accurate data submission.
- Incorporates visual charts and responsive layouts, ensuring accessibility across devices via web browsers.
- Designed for end users, including investors and sales personnel, to compare machinery operational and related costs.
- Aims to support informed long-term investment decisions for businesses.

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# Final Design:



# Thankyou:

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Let's talk [sales@kilowott.com](mailto:sales@kilowott.com)

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