

# Empowering Growth: Elevating Sales with Smart Solutions

Since its inception in 1995, BP2 has distinguished itself as a premier manufacturer, delivering comprehensive solutions for both residential and industrial construction sectors. Their expertise extends to the offerings provided by the Steel Service Center, showcasing their versatility and commitment to quality. As the innovative creators of the SOLROOF brand and products, BP2 has set a benchmark in the industry with their integrated photovoltaic roof system, exemplifying their dedication to sustainability and excellence in design.

## INDUSTRY

Manufacturing

## HEADQUARTERS

Cracow, Poland

## TECH STACK

Create React App  
React 17  
Workbox (serviceworker)  
Dexie.js (IndexedDb)  
Paper.js  
Three.js  
jsPdf

## Project Description

The Codest embarked on developing a **planner tool for BP2**, designed to advance the way sales representatives and distributors create offers and plan projects. This innovative tool, integral to the SOLROOF brand's offering, enables sales representatives to accurately design roof layouts, calculate costs, and generate offers in a time-efficient manner. The crucial part of the [project](#) was rebuilding **the optimizer** – a tool engineered to precisely determine the requisite number of tiles for a specific roof, thereby optimizing resource use and enhancing savings efficiency.

## Challenges

BP2's previous system was plagued by a series of challenges, including **technical debt** and a lack of advanced features, which hampered its operational efficiency. A critical component of the new planner, **the optimizer**, was developed to address these issues head-on. The [team](#) encountered specific hurdles such as rendering issues, where closely aligned surfaces created visual discrepancies due to their parallel intersection. Additionally, the previous system lacked the capability to efficiently display the offers.

## Approach & Results

The Codest has developed an **innovative program for BP2**, designed to transform the sales department's quotation process. This advanced application, upon receiving the required data, skillfully crafts roofing proposals, factoring in the specifics of materials, accessories, and lighting, including photovoltaic panels, using Google Maps for precise planning. The core of this system is an **intuitive 3D program** that enables quick, efficient project visualization and design.

This tool allows the generation of multiple proposals in a brief period, offering various options in terms of materials and accessories. When a proposal is approved, the application seamlessly integrates with BP2's **ERP system**, ensuring that the accepted offer, along with all its detailed specifications, is directly forwarded to production.

This advancement has significantly **optimized the quotation process**, reinforcing BP2's commitment to innovation and excellence. It not only streamlines the operational workflow but also establishes BP2 as a forward-thinking leader in the industry, adding substantial value to its sales and distribution strategy.

## Application Views:

