



Eastern Enterprise Partnered with W/E Adviseurs To Create Applications That Address Environment Sustainability



ABOUT W/E Adviseurs



W/E Adviseurs is a leading research and consultancy firm that help in making buildings and other areas more sustainable, future-proof, and amazing living environment.

W/E Advisors has more than 40 years of experience in supporting the real estate, municipalities, and national government in making sustainable constructions. They majorly focus on Energy, Circularity and Health areas and assist organizations in their construction process from the vision to the implementation and maintenance phase.

Eastern Enterprise partnered with W/E Adviseurs to assist their team in developing two significant applications named GPR Gebouw and GPR Materiaals. These applications help users construct more sustainable and energy-efficient buildings in the Netherlands.



PROJECT CHALLENGE



Sustainable construction has gained a huge demand due to several benefits. This growing market aims to reduce the adverse effects of residential or commercial structures on the environment and human health. W/E Adviseurs wanted to align well with the sustainable development goals by providing users/organizations with applications to help measure/calculate the sustainability scores for their new constructions or renovation projects. Also, the product data involved in building construction and their environmental impacts coming from a third-party organization was time-consuming and had a performance impact.



OUR SOLUTION

W/E Adviseurs and Eastern Enterprise partnered to develop two powerful applications – GPR Gebouw and GPR Materiaals focusing on the goal of having a sustainable development/environment.

- ✓ The Single sign-on feature using Identity Server helped in easy login, logout, and session maintenance across the applications.
- ✓ The Global Product Search feature helped users easily search the products that are added OR are part of a building.
- ✓ To avoid fetching data from third-party API directly, the team created an application that daily fetches product data from API and validates/sanitizes it before storing it in the system.



TECHNOLOGY STACK

Eastern Enterprise proposed the following technologies to easily reach the requested functions:



KEY BENEFITS

Performance



The application's user experience and the performance has improved drastically making it faster, easy, and convenient to use.



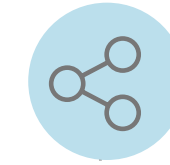
The application helps calculate sustainability score for buildings.



The negative impact building materials have on the environment can be calculated very easily.



Multiple calculations can be created for a building.



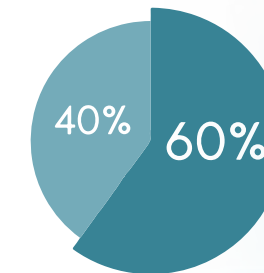
Users can share building calculations with W/E experts for further analysis/guidance.



A centralized login system provides better application security.



A third-party validation system helps in data validation and sanitization and is faster than a third-party API.



END RESULT

- ✓ With GPR Gebouw Application, the users are able to easily calculate the sustainability score for their constructions on multiple themes.
- ✓ With GPR Materiaals Application, the users can calculate the environmental impact of buildings caused by the materials that are used to construct it. The results can be shared with the W/E experts for better analysis and expert advice.
- ✓ The centralized login feature has helped in improving the security and privacy across the applications.
- ✓ A third-party validation system helped validate the data and report any inconsistencies/irregularities in the data. Also, the fetching time for the data is drastically reduced as it now directly comes from a custom database.

For more information

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