



Verein Revoca

ONLINE LEARNING PLATFORM FOR TEACHERS AND STUDENTS

Challenge

Verein Revoca's learning software offers electronic education solutions which meet needs of students in various grades and can be used by teaching staff for targeted learning during lessons. The spectrum encompasses the learning modules German, English, elementary English, French, Italian and Latin, as well as mathematics.

The modules are created and run with proprietary desktop software. Schools install the solution on their own systems. The software needs to be made accessible via the web to reduce administrative expenses, enable further technical development and also offer students learning opportunities at home.

Solution

To minimize risk, the project was carried out in two phases. Initially, the exercises continued to be generated using the exist-

ing software solution. The majority of the users switched to the new online solution. All data and settings were adopted to ensure the transition was seamless.

A significant milestone was when the learning content was ported in such a way that it could also be displayed on mobile devices such as tablets. Fixed elements of various media types were now displayed in relation to each other. For 80% of the exercises a general algorithm is applied, which has been enhanced for special cases. This made it possible to retain a large amount of the content that had taken so long to create.

Result

We were able to implement most of Revoca's requirements very successfully. A few particular learning exercises required different solutions.

Hourly synchronization between the systems means that new content can now be quickly made available.

To reduce costs, the decision to use a wrap-per app was made early on. This app is largely composed of pure web components which display the content optimally for the respective display size. To further improve the user experience, it will be possible to create and distribute exercises directly through the new web solution in the future.

The chosen architecture is based on contemporary open source technologies that can adapt to rapid changes in the area of web software through constant, ongoing development and adaptation.