

Case Study: VRAS

VRAS (Virtual Reality Advanced Security) is a project focused on providing security personnel with realistic training for handling various terrorism scenarios through a VR platform.

Avg. reading time: 2 min



Project Overview • DAPL developed a backend system that facilitates a connection

between the web app and the VR platform of the business. The backend system will utilize a client-server architecture. The server will manage user authentication, and scenario assignments, and serve scenarios to the client.

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Client Background

- The business wanted us to create a robust backend system that included multiple modules and functionalities • For VRAS, DAPL used React.JS and Node.JS to develop the platform
- architecture that it was looking for





• Implementing video streaming from a VR platform to a React web application

• Incorporating a world-class training module that would include user data

Challenges

- storage, game data storage, score storage, scenario allocation and more • Integration of multiple language support
- Developing a role-based customer interface on the platform • Inclusion of role-based permission

Technology Stack used







The Solution Provided

All major modules are integrated for hassle-free and seamless operation of the VR-based platform

Solution #2



system

Solution #1



A smooth and robust backend



scenario management, and training progress tracking and other major functionalities

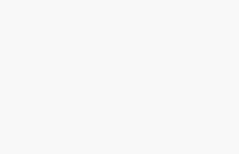
Solution #3

Incorporation of user authentication,



Solution #4

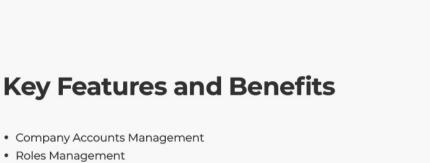
A clean, smooth and interactive main website with attractive designs, updated and useful content and compliant accessibility options



Solution #5

access and usage

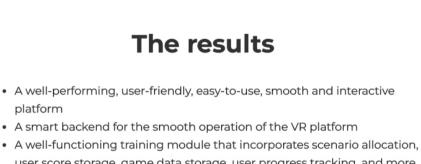
A smart platform dashboard customized for role-based interface



• Game Data Storage and Retrieval Historical Data • User Progress Tracking

 Roles Management • Role-Based Permissions User Activity Tracking · Scenario Allocation • User Score Storage

· A well-performing, user-friendly, easy-to-use, smooth and interactive





roles • Admins can manage different company accounts within the system

- Development of a backend system for the brand assisted in the seamless connection of the web app with the VR platform. This helped in faster and lag-free training
- Improved data storage, faster access to user and game data, and user progress tracking made it easier for the platform to optimize its operations
 - traffic on the site The well-designed dashboard improved the user experience and accessibility





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Conclusion

sessions for guards

• Attractive design, faster input response, and better

• Multiple language support on the main website and the

experience helped in the improvement of the overall training

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