CUSTOMER
SUCCESS STORY

AMERICAN SENTINEL UNIVERSITY

Innovating Healthcare Education Through 3D Virtual Learning

InApp

Company Bio

American Sentinel University understands the needs of working healthcare professionals are very different from traditional classroom students. Established in 1988, the university offers online degree and certificate healthcare programs through innovative and interactive methods. With advanced 3D and virtual simulators, American Sentinel University creates a conducive and interactive environment for students to learn, practice, and improve their skills and expertise. The Colorado-based university merged with Post University in 2021 to become American Sentinel College of Nursing & Health Sciences at Post University.

Overview

- 3D virtual simulation
- Hands-on education application
- Community healthcare management instruction tool

Industries/Solutions

- Education
- Healthcare
- Virtual Learning

Technologies Employed

- Unity 3D
- Blender
- WebGL
- JavaScript
- .Net

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Business Challenge

American Sentinel University partnered with InApp to revamp the university's 3D and virtual simulator by adding more features and removing glitches. This tool is an integral part of the institution's learning program. InApp was tasked with...

- Completely redesigning the interface to make it more user-friendly
- Adding more essential features required as a part of a course in tutoring nursing students
- Making the simulator web-based and accessible to students through low bandwidth connections
- Building an e-learning application that can help students analyze patient handoff reports

"I know the InApp team has really worked hard, and I really appreciate your commitment and dedication. I am really proud of what we did with this project."

– Executive Director of Learning Innovation at American Sentinel University

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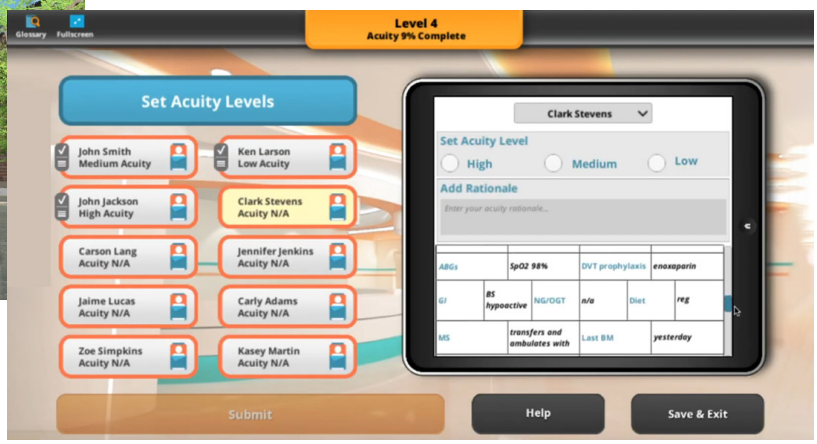
Solution

InApp's experienced team of software developers revamped the simulator and built the e-learning application for American Sentinel University. The project encompassed the following solutions.

- InApp's dedicated Unity 3D developers re-engineered the application to optimize it to stream smoothly over the Internet. They also worked on 3D modeling, texturing, rigging, animation, and integration of the application. For texturing a real-world environment and rendering every interactive character present in the simulation, InApp used Blender, a 3D graphics software toolset.
- InApp developers crafted an innovative and seamless 3D virtual tour simulation by introducing simpler UI workflows for better user experience. The tool is used exclusively for the nursing students to train and examine their capability of observing the neighborhood for any health-related concerns.
- InApp's expert developers used WebGL and Javascript to develop a second version of the 3D virtual simulation. Using the simulation, the students can walk through the rural areas where healthcare challenges and hazards differ distinctly from those of cities.
- The tool also provides a detailed dashboard view in the admin panel where faculty could provide different assignments to students and assess their capabilities through a centralized dashboard designed for that specific purpose.
- InApp's skilled developers built a "Patient Management & Delegation" software application that helps students manage patients and learn to build an accurate communication channel. JavaScript was used to enrich the web-interacting experience and to communicate with the backend.



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Benefits

By optimizing the use of Unity 3D, Blender, WebGL, and JavaScript, InApp's experienced software engineers delivered a highly efficient application and 3D virtual simulation within the scheduled timeline. The team also introduced a 360-degree facelift with many additional features lacking in the older design.

American Sentinel University experienced the following benefits from the project.

Improved Features High Demand

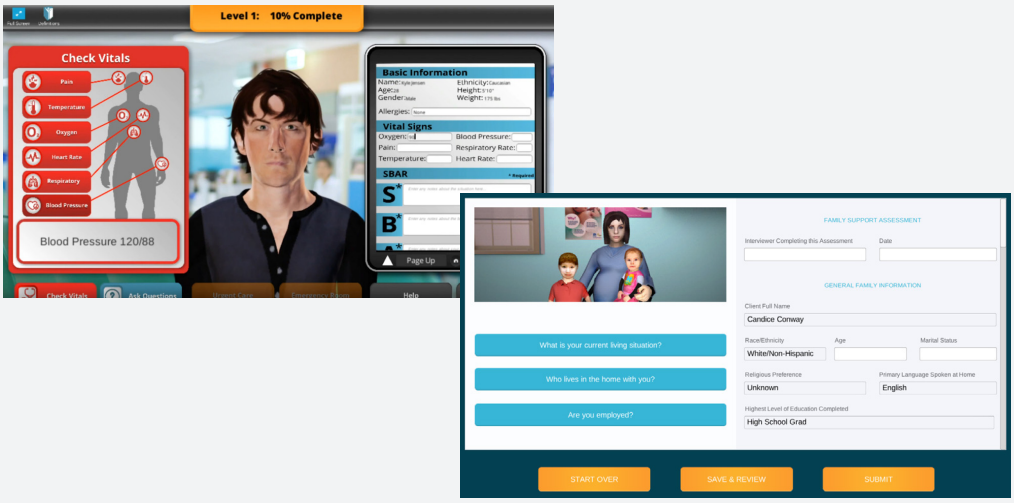
With additional and improved features, the 3D virtual simulation quickly became popular with users. Because of its success, several other universities purchased the software.

Virtual Learning Experiences

The digital simulations enabled the students to complete community health and leadership practices from the comfort of their own homes.

Faster Response Rate

The new virtual simulation displayed a 90% faster response rate when compared to the older design.



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