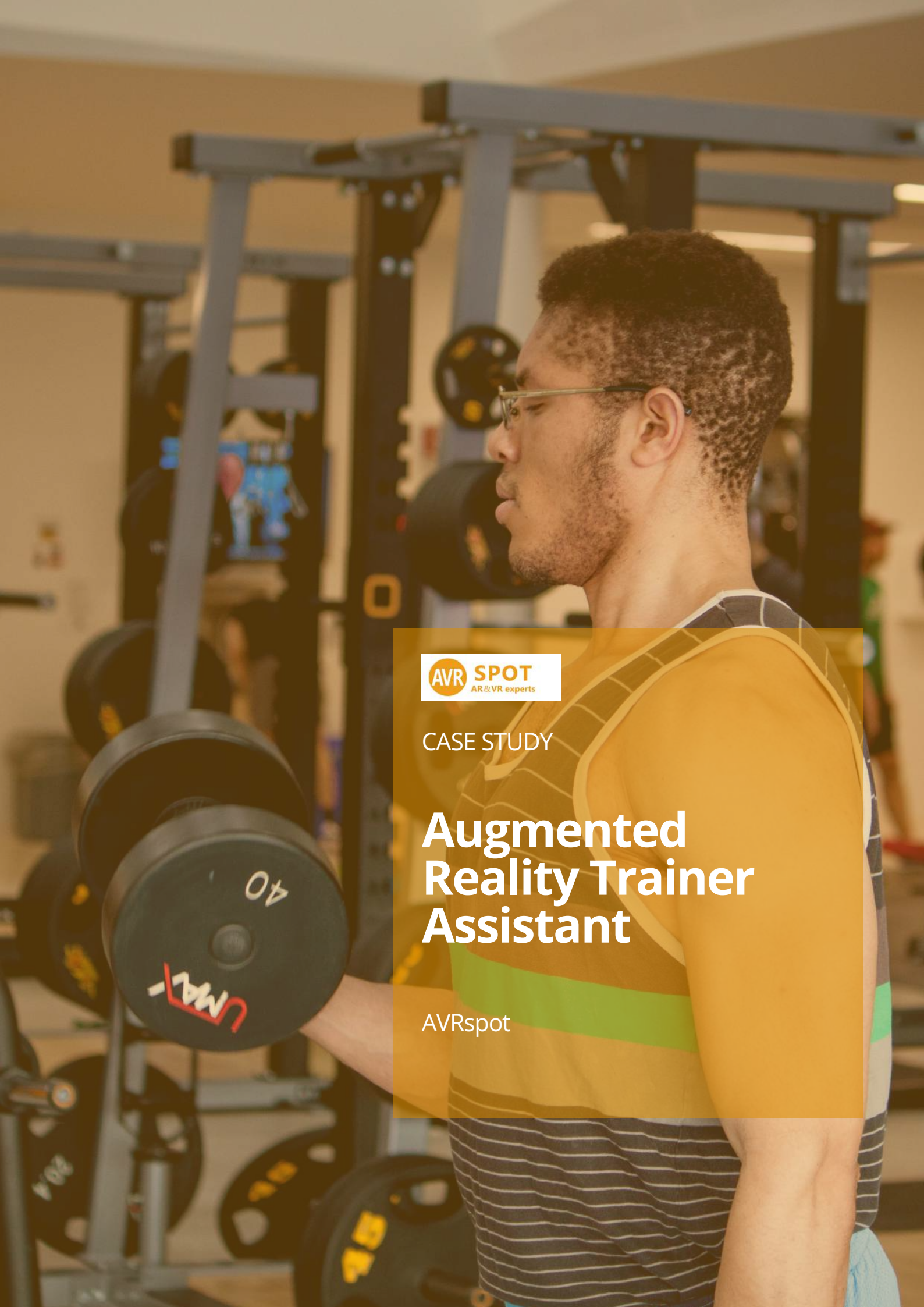


CASE STUDY

Augmented Reality Trainer Assistant

AVRspot

Background

The client's goal was to create Augmented Reality Trainer Assistant, an AR application, that enables users to train together with AR coach to discover the perfect gym equipment and suitable exercises for a precise fitness plan, so that they could lose weight and/or strengthen body lines. Potential buyers can explore how it feels to work with a virtual assistant in a real environment. Moreover, customers can also choose an exercise from a menu, appearing right after they see a coach near a barbell or a rope.

So, the client decided to look for a trustworthy partner to develop Augmented Reality Trainer Assistant solution. Our team of highly experienced AR developers gladly contributed to the project and created an AR app in line with the specs.

The cooperation with the AVRspot team allowed our client to obtain the desired solution on time.

Challenge

AVRspot team's tasks were to:

- provide end-to-end AR development services from architecture to implementation and testing;
- build the object recognition function, for the system to put the 4D Volumetric lifelike coach on the appropriate training equipment;
- integrate voice instruction;
- integrate inapp purchases;
- build the core of the platform.

4D Volumetric coach hologram and voice instruction were provided by the client.

Scope of Service

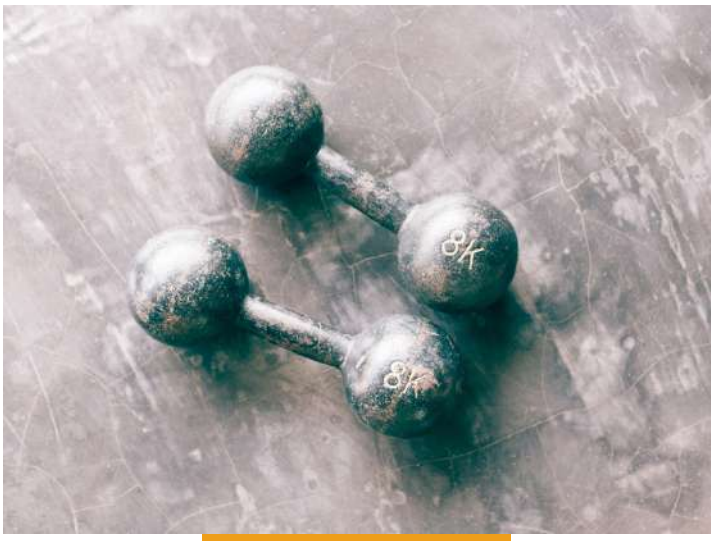
- Architecture development;
- Object Recognition Execution;
- Voice instruction integration;
- Inapp purchases implementation;
- Quality Assurance

Tools and Technologies:

- Unity3D;
- C#;
- ARkit;
- Google Cloud Vision

Solution

AVRspot helped to implement the interactive, augmented reality trainer assistant app to satisfy the customer's demand for a training, advanced mobile application. Besides, the application includes computer vision algorithms that recognize various types of gym training equipment, so the virtual trainer could show the user appropriate workout. Inapp purchases integration allows users to buy premium account and enjoy wider range of training equipment and exercises respectively.



How we did it

Firstly, AVRspot specialists have developed the core functionality of the product. Secondly, the team dedicated special attention to working with object recognition to get the best app performance.

Also, we have used ARkit for the system to put the trainer in an appropriate place and check if the chosen place matches the particular equipment. Moreover, AVRspot developers have created a menu list for each equipment, to allow the user to choose available workouts.

By placing a phone over any chosen sports equipment, a user would see a coach exercising and could repeat the same workout.

Benefits

- You can use an Augmented Reality Trainer Assistant application instead of a personal trainer anytime and anywhere, which saves your money and time.

Results

AVRspot team was able to streamline cooperation with the client and achieve the project goals within the stated time frame. We have implemented the core functionality of the project, as well as object recognition algorithms to ensure the best performance of the app serving to a client.

By using their devices users can scan apparatuses inside the gym, and developed AR technique will add the virtual training assistant who will provide workout guidance in real time.

About AVRspot

AVRspot helps clients transform their businesses by providing virtual and augmented technology solutions.

We solve sophisticated issues with creative strategy and large-scale engineering. By applying design-driven prototyping approach in combination with proven project management techniques our highly qualified team delivers outstanding digital solutions and content to our clients.

Our team of experts provide AR/VR Consulting, Product Design & Implementation, and Usability Testing. Moreover, we have experience in cross-border collaboration and virtual teams.