

AR Travel Portal Platform

AVRSPOT CASE STUDY



AVRspot

Scope of Service:

- Room design, its development, and configuration;
- Developing the functionality of reading, writing, and storing files;
- Implementing the function of saving data viewing information to json;
- Creating a viewing mode of the rooms;
- Implementing the portal entrance and exit;
- Developing transition points between the rooms;
- Creating a simplified view mode for devices that do not support the ARCore.

Tools and Technologies:

- ARCore;
- ARkit;
- Unity;
- Unity & C# Libraries;
- Client Server Data Exchange.

Platforms:

- Android;
- IOS



Overview

AVRspot is a Lviv-based Augmented and Virtual Reality studio that provides AR/VR solutions and services for various businesses worldwide. By working with a wide range of industrial customers, AVRspot exploits technological know-how to meet business objectives in the most inventive way.



Challenge

The philosophy behind the technology is to create AR portal, that will be enhancing people's lives, by helping them choose a property or an apartment without leaving their homes.

Objectives

Implement a stand-alone AR solution that will perform a function of travel portal.
Enable an effortless visit to numerous apartments and properties.

Solution

AVRspot suggested and implemented an augmented reality travel portal within mobile applications to enhance a consumer journey through the Real Estate world.

The AR Travel Portal Platform that AVRspot designed and delivered works as a custom solution that provides a virtual reality travel experience via mobile apps to help consumers choose a property or an apartment without the need to visit the real place. The AR solution itself is meant to transform consumer experience when it comes to Real Estate.

The camera superimposes virtual doors that lead into a virtual world on top of the real one. The doors spin around in place allowing the user to pick the door they want to visit, walk through a property, exit it and enter the next one. When users step through the portal, they can see the real world through the same doorway.





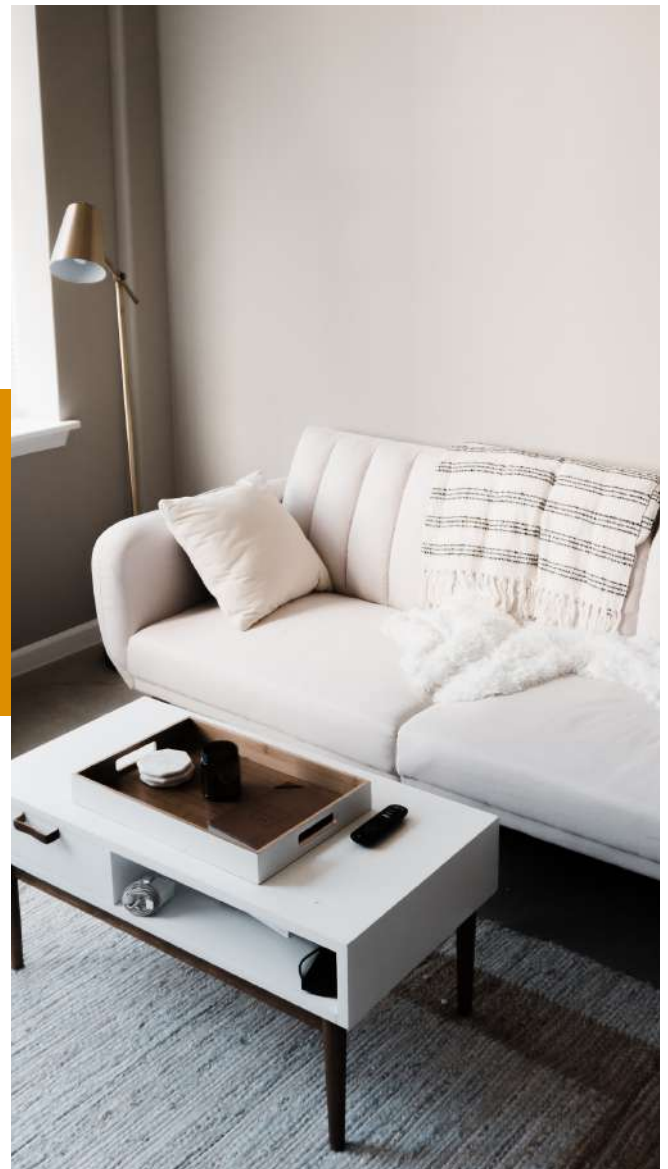
Travel Portal Platform allows the user to create a 360 tour of any place without any technical background automatically just by uploading 360 photos of the residence to the app. Thanks to the 360 spheres management algorithm users can set the starting transition point as well as the next transition points to walk through the house by moving from one sector to another and observing the apartment all around. With the help of this application users are able to visit various home interiors, walk through the apartment and find the desired residence.

How We Did It

At a first step, AVRspot carried out an on-site research to turn a fresh idea into a technological know-how.

As soon as the scope of the project had been agreed upon, AVRspot's Unity Developers proceeded with the AR Travel Portal Platform development. By using ARCore, Unity Engine as well as inner Unity and C# libraries we have implemented a stand-alone AR solution that performs a function of a travel portal.

With a professional team of Unity Developers and full product management responsibility AVRspot has built an ultimate AR Travel Portal Platform solution from scratch.



Benefits

- ✓ Realistic panorama (360 degrees) and the possibility of rotation;
- ✓ Automatic tour creation;
- ✓ 360 spheres management algorithm for virtual tour creation;
- ✓ 3D visualization method is a great way to reduce the expenses and save your time.
- ✓ An option to select rooms and walk through them;
- ✓ Possibility to "walk" through the apartment remotely;
- ✓ The 3D immersive environment enables a user to navigate through and interact with the environment;



Results

The team of AVRspot's experts designed & created applications for Android and iOS platforms that allow its users to virtually teleport from any location and observe the desired properties. The ultimate AR portal solution helps customers walk through a property or an apartment 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.