# Project Idea

# Name of the Project-

React Native AR Portals

# Elevator Pitch-

## What does the project do?-

The project provides an augmented 3d tour experience of a place by just using the cellphone. A user will be able to enter the augmented experience using the AR (Augmented Reality) Portal Door visible in the camera view of the app. The user can enter the portal door by just walking at the door and phone GPS will track and update the location. The user can also seamlessly exit back to the real world view by walking back through the same door from augmented world.

Its a pretty cool experience and one must try just to see and understand the seamless transitions.

The app will be built for Android using React Native, AR Core and Viro AR Portal Door component (<https://viromedia.com/>).

Who will use the project – Marketers and businesses who are looking to provide a more immersive virtual tour experience during COVID-19

Value provided to the user – Ability to use cellphone to do an immersive tour without the use of any other VR/AR headsets. So, it cuts down the barrier to entry for Augmented Reality and Virtual Reality tours.

# Wireframes-

1. Walk into a AR Portal from the camera view –

A screenshot of a computer

Description automatically generated

B- Walk back into the real world from the virtual world using the same Portal door

A screenshot of a computer

Description automatically generated

Related WIP video- <https://www.youtube.com/watch?v=qN8vjhlJDrE>

# Project Dependencies-

* Google’s AR Core
* Viro React (for AR Portal) <https://viromedia.com/>
* Expo for hosting

# Tasks-

Week 1-

* Learning React Native and installing related dependencies including Android Studio
* Install and Run React-Native Basic (How to run hello world)
* Install and Run AR Core
* Install and run Viro React ‘hello world’ on React and AR Core

Week 2-

* Run AR Portal on React Native
* Test it on actual Android device
* Learn Expo and deploy the React Native app on Expo
* Nice to have not must have list- Learn to create content embedded in 360 video to make custom

Week 3-

* Testing test if it seamlessly work on Android device and remove any remaining bugs identified.
* Nice to have (based on time)-adding multiple AR portals
* Nice to have (based on time)- Allow user to select a given AR Portal they want to view based on the drop down list

# Plan-

Week 1 – Get ‘hello world’ AR app to work for React Native on Android

Week 2 – Build and test AR portal and host on Expo

Week 3 – Do testing and make any feature updates based on remaining time (such as multiple portal or option to choose/search a portal before launching the experience)

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