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EXPLORING APPROACHES

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Marker-Based Approach

In this approach, we tried to explore marker-based display of map and superimposed 3D models. In this we used an image target to achieve the same.

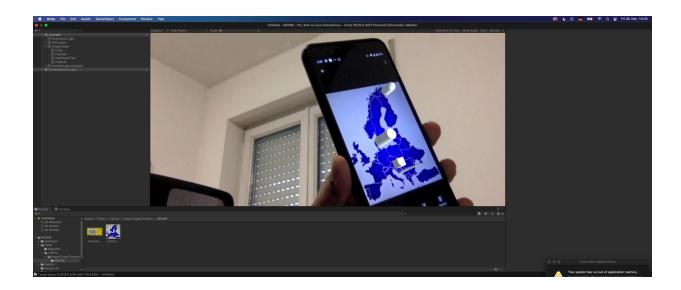
Markerless approach.

In this approach we tried to create markerless augmented reality using Vuforia Ground Plane. With the ground plane feature, we would display the map directly in the real world.

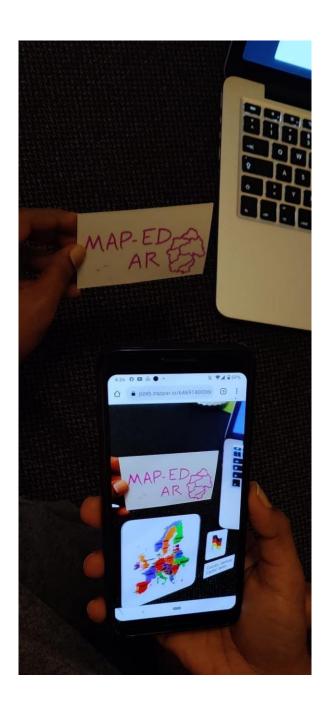
SCREENS

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Using Unity and Vuforia Engine, we made our first marker based prototype having a map image as the image target and laying 3D objects on top of the countries. This is our initial try of building a minimum viable product. Our next step would be implementing the overlay with flags, monuments for some countries.



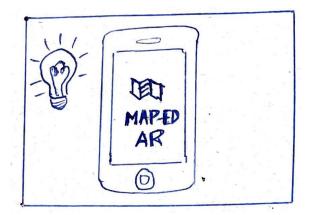
Using Zapworks webAR, we created an experience of marker based card tracking to display the Europe map with the country flag and some information about the country such as Capital, Land area etc.



STORYBOARD

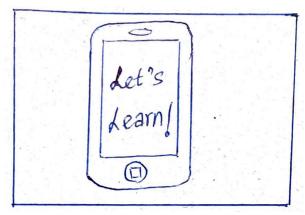


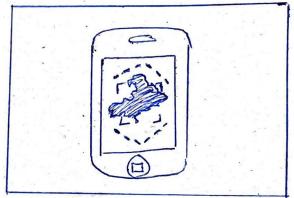




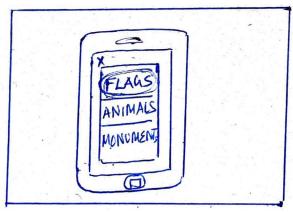
KID BORED OF READING GEOGRAPHICAL FACTS

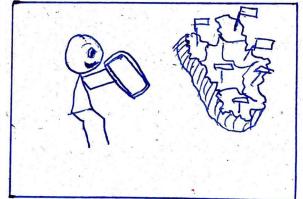
IDEA! USE AN AR MAP TO VISUALIZE COUNTRIES





USE THE AR FUNCTIONALITY OF THE APP TO SEE THE 3D MAP PROJECTED IN YOUR PLACE OF CHOICE





MENU TO CHOOSE TYPE OF GRAPHICS ON MAP

ANIMATED FLAGS OF COUNTRIES COMING TO LIFE!

REQUIREMENTS

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The primary hardware requirements for the realization of this project would be a Windows or a Mac system, along with an Android or iOS device for testing the AR app. We would be making use of Visual Studio (C# Platform) for scripting in Unity 3D together for design and development. We would also be using Vuforia for functions such as image recognition, and tracking multiple image targets simultaneously. The proposed technique of interaction is via a smart device that can be carried and used on-the-go as well.

OUTLINE



	October		November				December				January			
	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3	Week 4
Research														
Ideation														
Prototyping														
Testing														
Building														
Documentation														
Final Preparation														•