REVA HACK</> 2021

Elevator Pitch

BRUTE FORCE

Binayakanta Senapati
Dikshitha AV
Heba Maryam
Himashree M

ARyas!!

Overview

Visualizing certain objects, diagrams, chemical structures etc, becomes really hard when it is seen in 2D. Apart from that, the human brain has a greater tendency to remember the subject when taught using visual representations. So, our team intends to solve this problem to make learning more interactive and fun.

Goals

1.To use AR in classroom education to make the learning more interactive and fun.

2.To enable teachers to show virtual examples of concepts and gaming elements to provide textbook material support which will enable students to learn faster and memorize information.

3.On echo3D, we've developed several 3D modules with a unique QR code for each image. We aim to model the 3D modules from scratch using blender.

4. We're also attempting to make the same software with Unity 3D.

Working Methodology

Using our application, the student will be able to scan the image/ Qr code given in the textbook, after which a 3D image would be visible in their phone.The 3D modules are all stored in echo 3D cloud.We are trying to implement the same using unity, where all the 3D modules are stored in the application itself.

Specifications

We are using softwares like Unity, echo3D, Paint 3D, and Blender.

Unity: Unity is a cross-platform game engine developed by Unity Technologies. The engine can be used to create three-dimensional (3D) and two-dimensional (2D) games, as well as interactive simulations and other experiences

echo3D: echo3d is redefining how people create 3D, augmented reality (AR), and virtual reality (VR) experiences. It makes it simple for developers and content creators to build, manage and deploy 3D applications and content with our flexible cloud infrastructure.

Blender: Blender is a free and open-source 3D computer graphics software tool set used for creating animated films, visual effects, art, 3D printed models, motion graphics, interactive 3D applications, virtual reality, and computer games.

Paint 3D: Paint 3D is a faster graphics and 3D modelling application which is a refresh of Microsoft Paint.

Links and other Information:

ELEVATOR PITCH:
- https://youtu.be/T4YpAiJq9eI

WORKING OF APPLICATION:
- https://youtu.be/vM261RQC-1o

GITHUB REPOSITORY:
- https://github.com/binays07/REVA-HACK-2021-BRUTE-FORCE

THE BELOW LINKS ARE SUPOOSED TO BE OPENED USING YOUR MOBILE:
- https://go.echo3d.co/QmjC (CH3OCH3)
- https://go.echo3d.co/fQM4 (HEART)
- https://go.echo3d.co/689S (SOLAR SYSTEM)
- https://go.echo3d.co/HeLZ (TRex)
- https://go.echo3d.co/7mEs (EARTH)