



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE
(All Programs Accredited by NBA)

Department of Information Technology



Using AR/VR for shopping

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Project Guide

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Introduction

- 3D Convenience store is a mobile app powered by Virtual Reality to enable advanced shopping experience.
- 3D Convenience store focuses on bringing a more practical approach to the current shopping system(2D & on-site) using 3D simulation and interaction.
- The proposed system introduces a VR based 3D Convenience store where the user can experience Real world based shopping activities Virtually from the Comforts of their home.
- This virtual Convenience store will have an easy to interact UI.

Objectives

- To advance the current Shopping system by providing user an immersive experience.
- To understand the concepts of VR and Unity and develop a prototype using the findings.
- To study and implement 3D Modelling and include it in the project.
- To create a functional application to cut down the amount of time required to search the products by suggesting relevant items to the user.

Problem Definition

- With the 2D shopping websites used today, they have their natural limitations, which is a particularly important element of shopping.
- Malls and grocery shops are closed or there are many restrictions imposed on them due to ongoing pandemic.
- Customers have to wait in long queues in order to get the tokens increasing the manual work and the amount of time.

Technological Stack

Software Requirements:

- 3D Modelling – 3Ds Max
- VR Engine - Unity (C#)
- Android Studio – Mobile Application Development

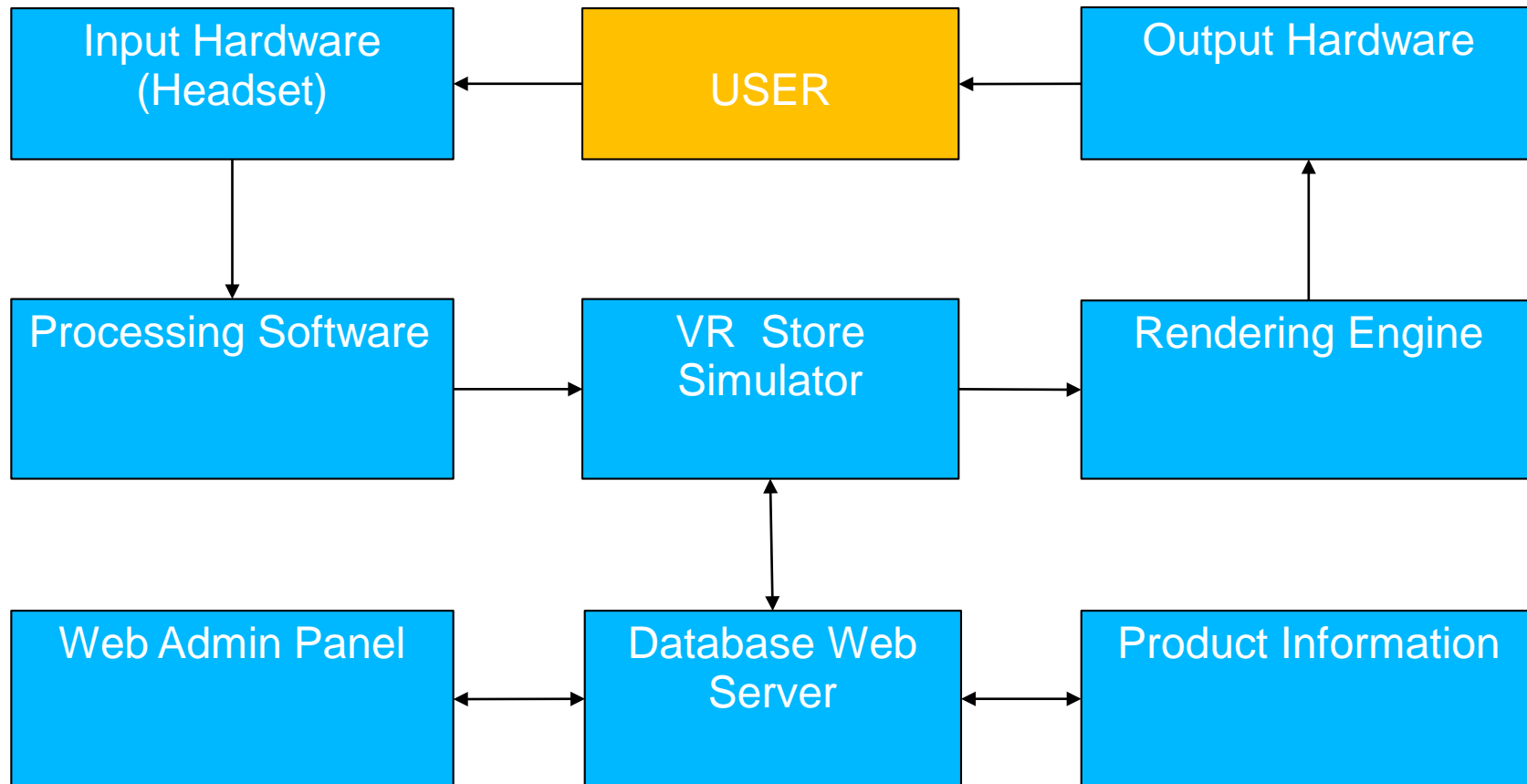
Hardware requirements:

- VR Headsets with Bluetooth controller – Rs. 3000/- approx.

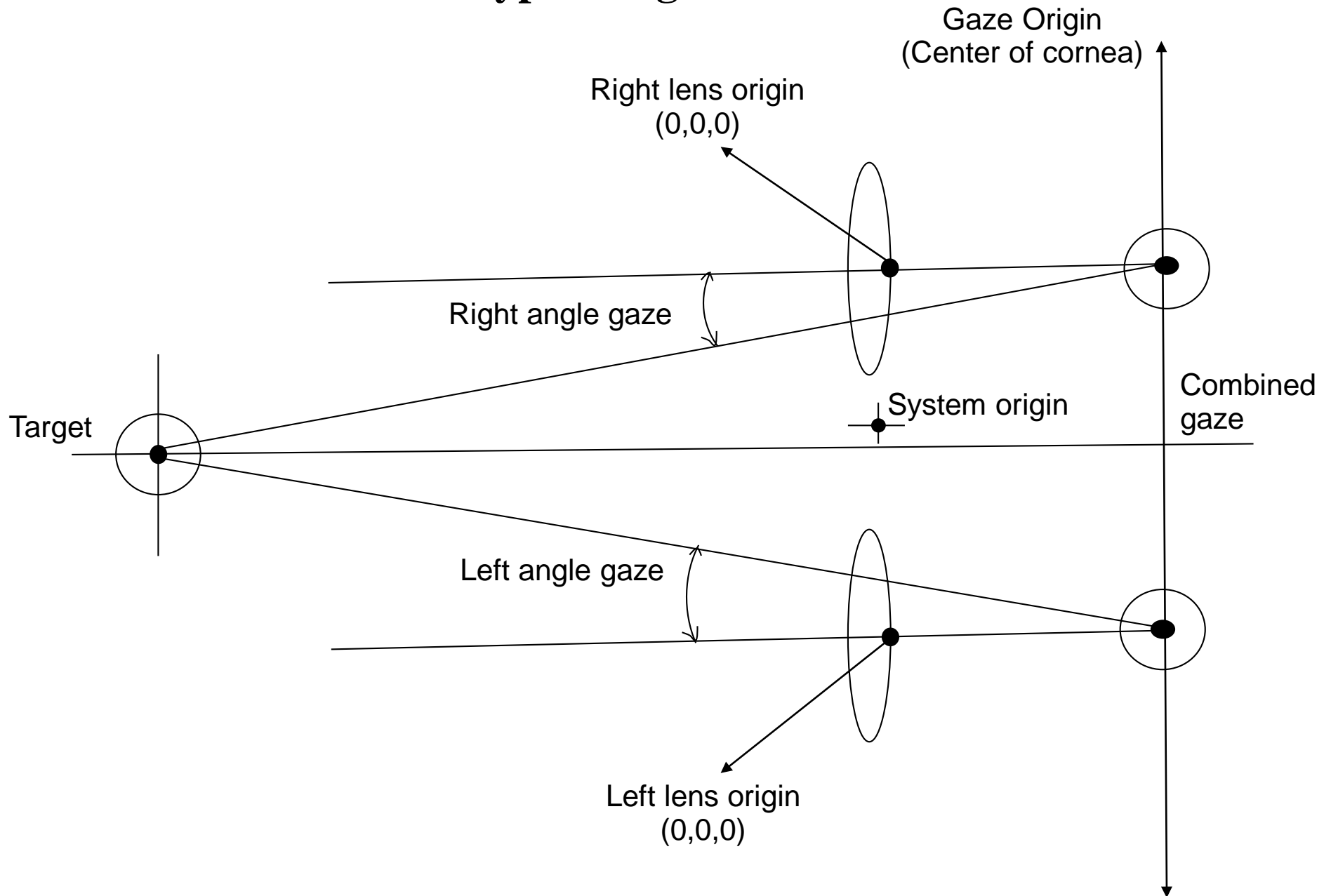
Review Suggestions

- Decide if it is going to be a desktop app or a mobile app
(Using Android store, mobile app will be developed)
- Finalize the Products range
(This app will be focusing on all the things available in Grocery Store)

Proposed System Architecture/Working



Prototype Design Demonstration



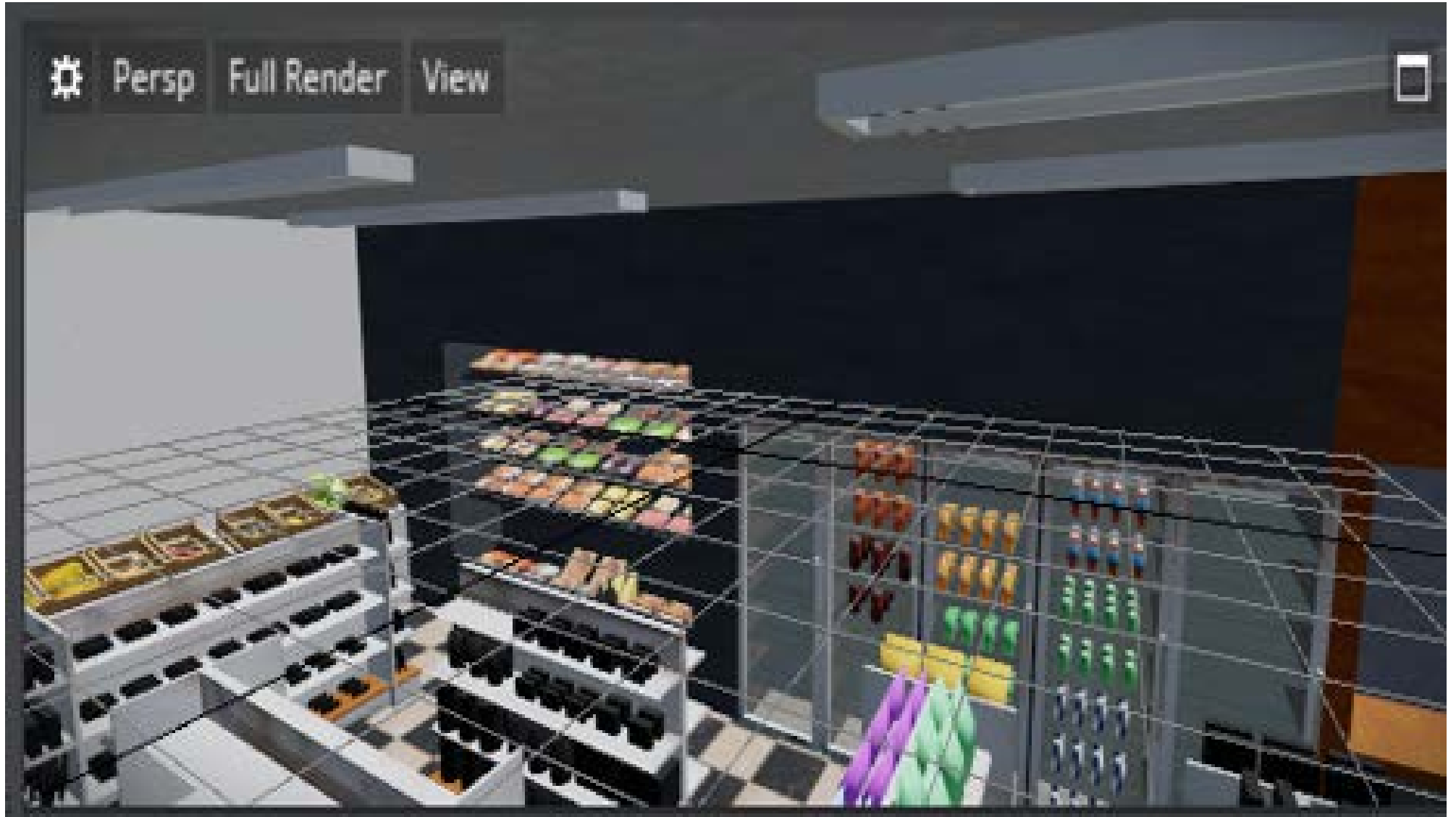
Prototype Design Demonstration



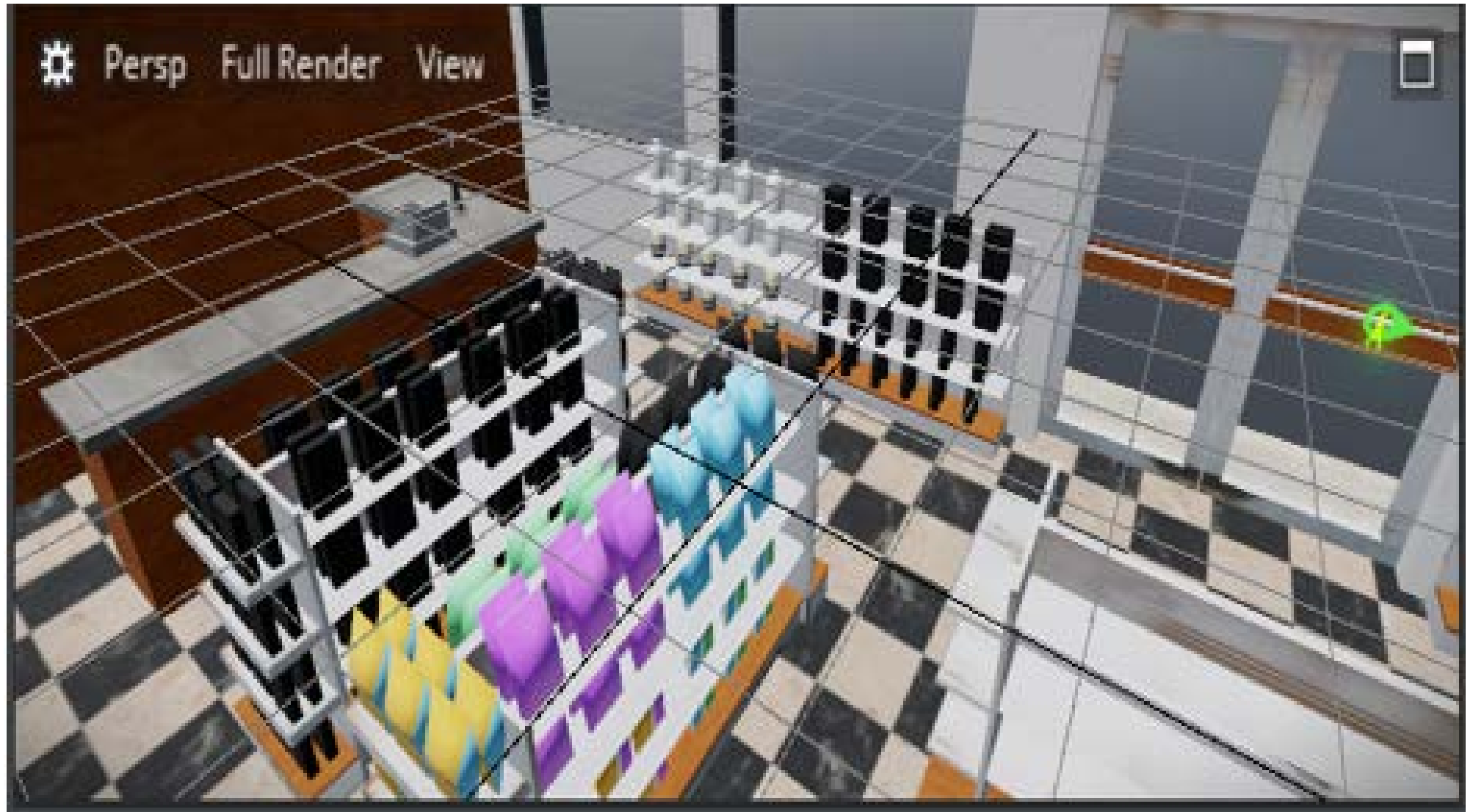
Implementation Status



Implementation Status



Implementation Status



Implementation Status



Status of Paper Draft & Targeted Conference

Conference paper publication submission done.

Targeted Conferences:

IEEE International Conference on Computational Intelligence and
Computing Applications-21

<https://easychair.org/cfp/IEEEICCICA21>

Thank You...!!