



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

Department of Information Technology



VR based Convenience Store using ML

Group No. 20

Jaaie Kadam 18104017

Prachi Manera 17104013

Project Guide

Prof. Anagha Aher

Contents

- Introduction
- Objectives
- Problem Definition
- Technological Stack
- Review Suggestions (Given in Last meeting)
- Proposed System Architecture/Working
- Prototype Design Demonstration
- Implementation Status
- Status of Paper Draft & Targeted Conference

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 allow the users get the feel of the object's texture, pattern similar to that of real world shopping.
- 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#)
- Machine learning algorithms

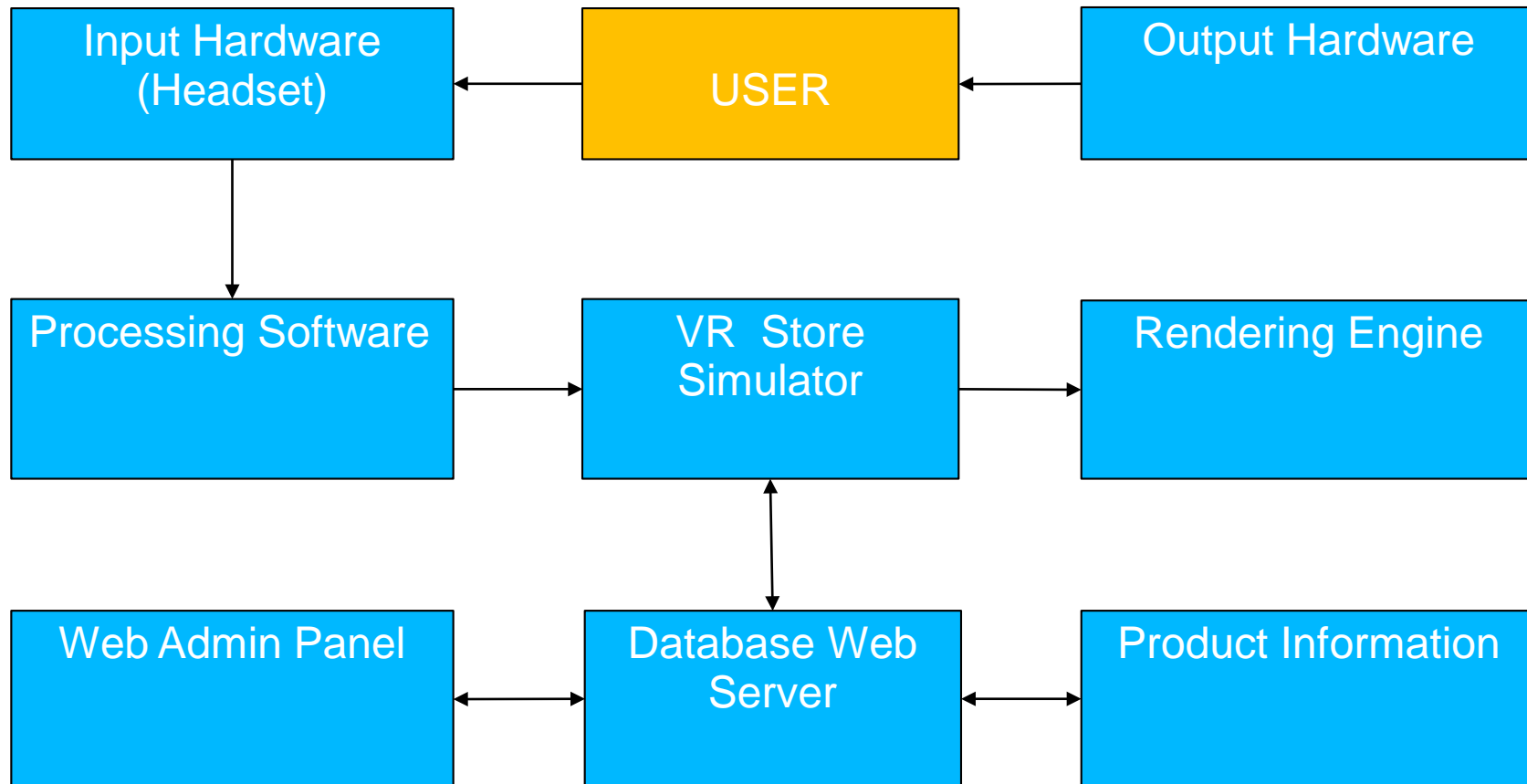
Hardware requirements:

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

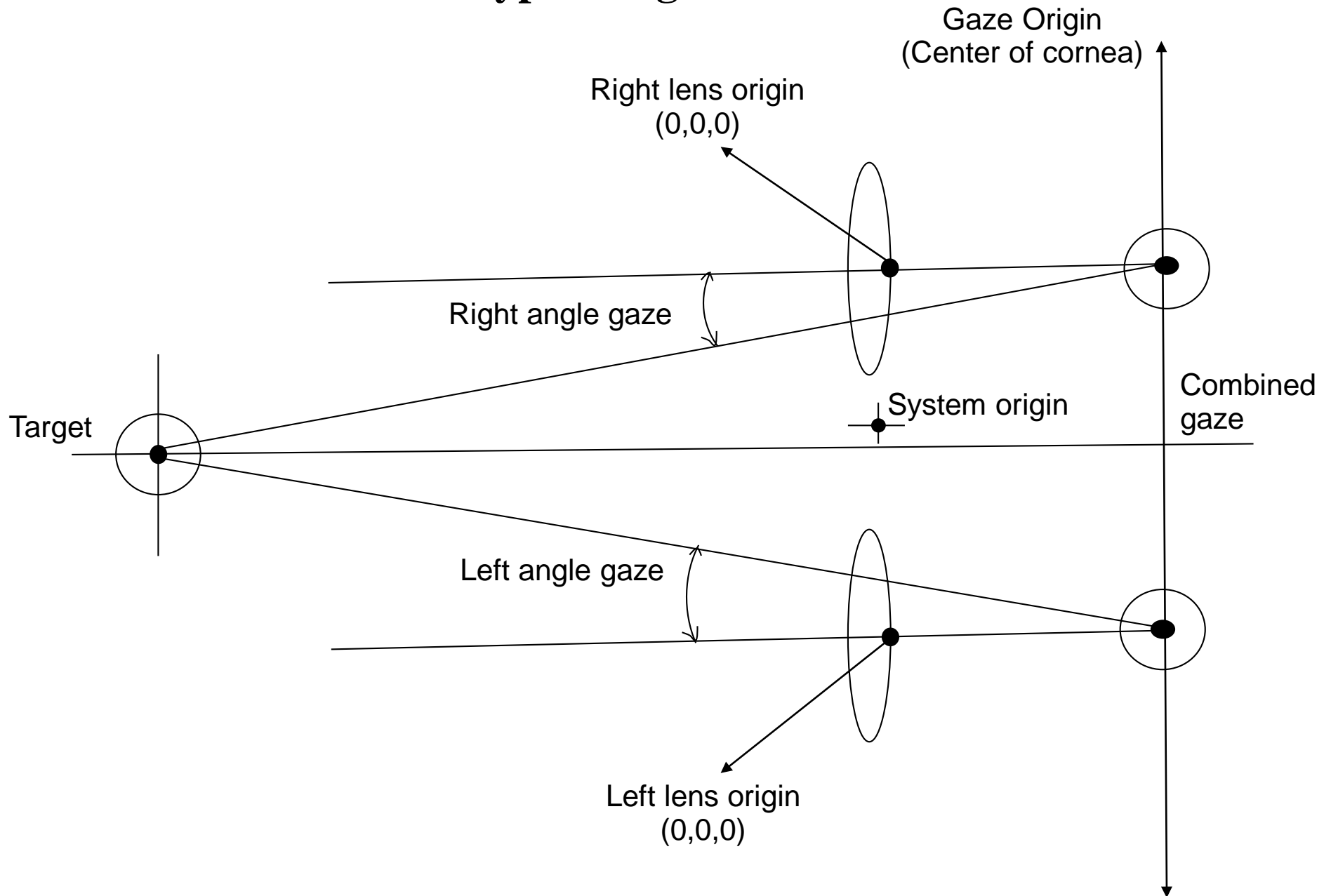
Review Suggestions

- 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

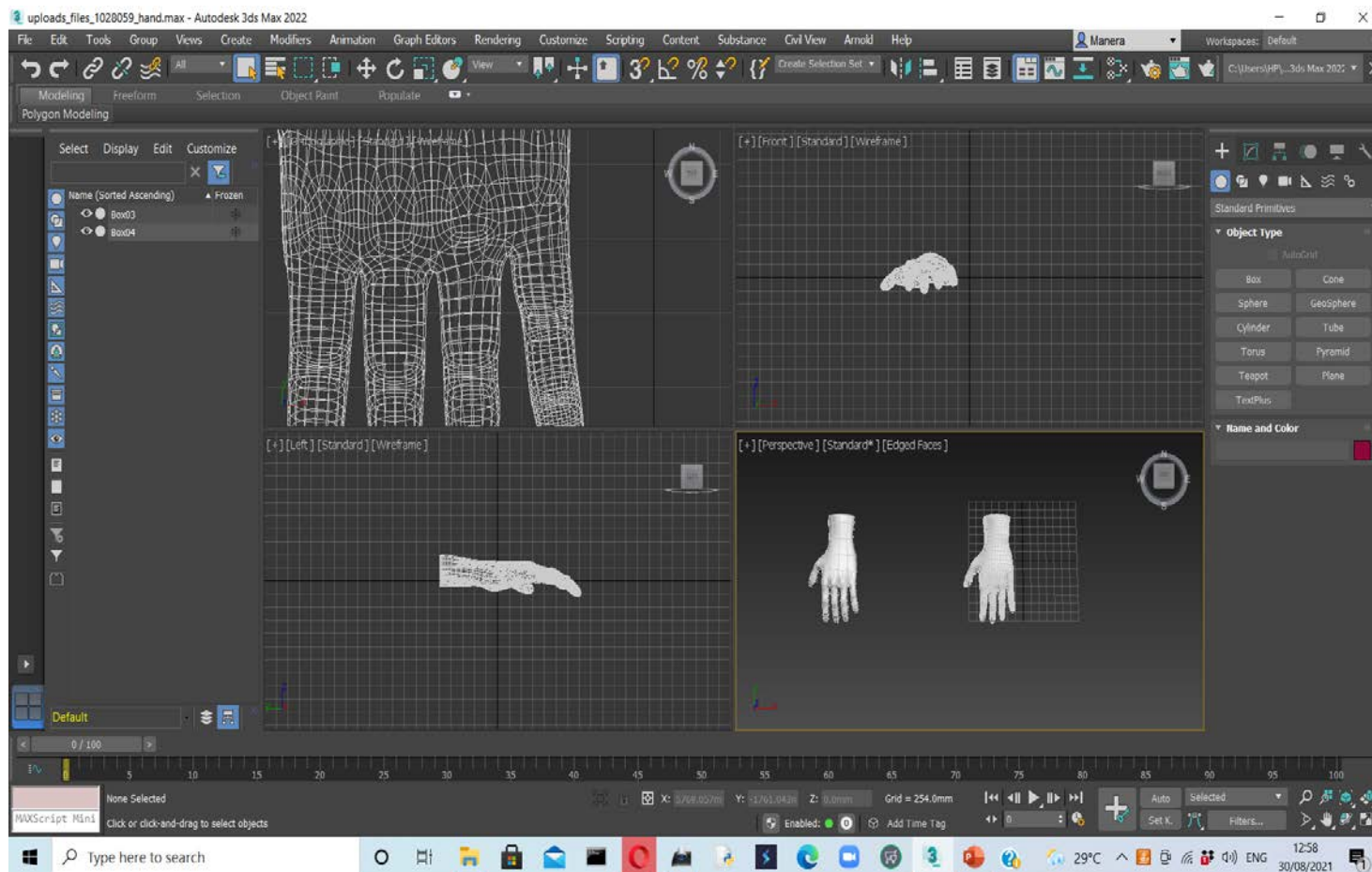


Prototype Design Demonstration



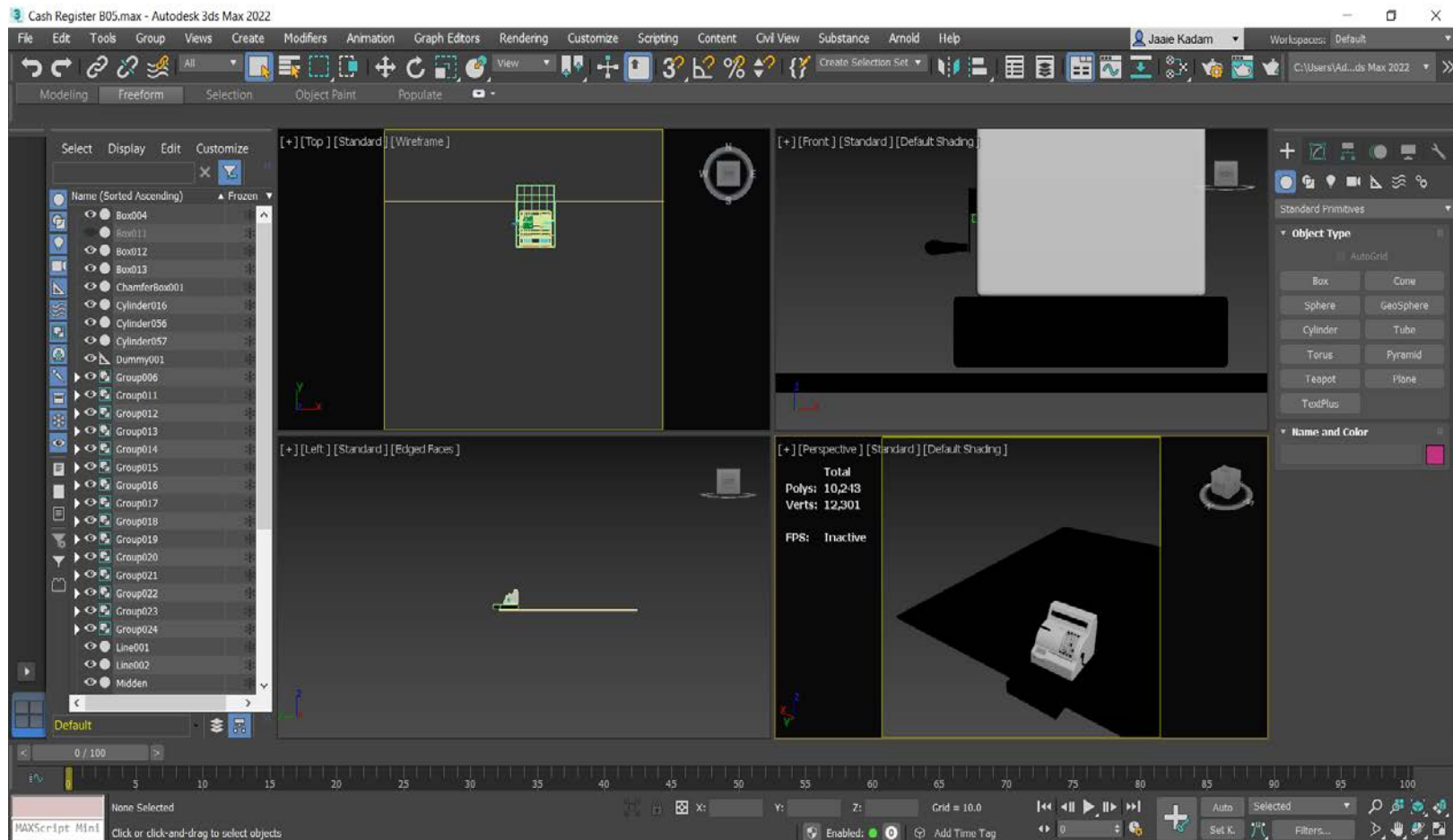
Implementation Status

- Learning Autodesk 3Ds Max.
- Hand Modelling



Implementation Status

- Cash Register



Status of Paper Draft & Targeted Conference

Abstract of Paper done

Targeted Conferences:

IEEE International Conference on Computational Intelligence and
Computing Applications-21

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

Thank You...!!