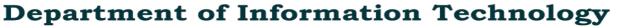


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Using AR/VR for shopping

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> Project Guide Prof. Anagha Aher

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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:

• Unity: environment for building, debugging and testing application

• Mongodb : for storage

NodeJs: backend

Hardware requirements:

• VR headset and Bluetooth controllers

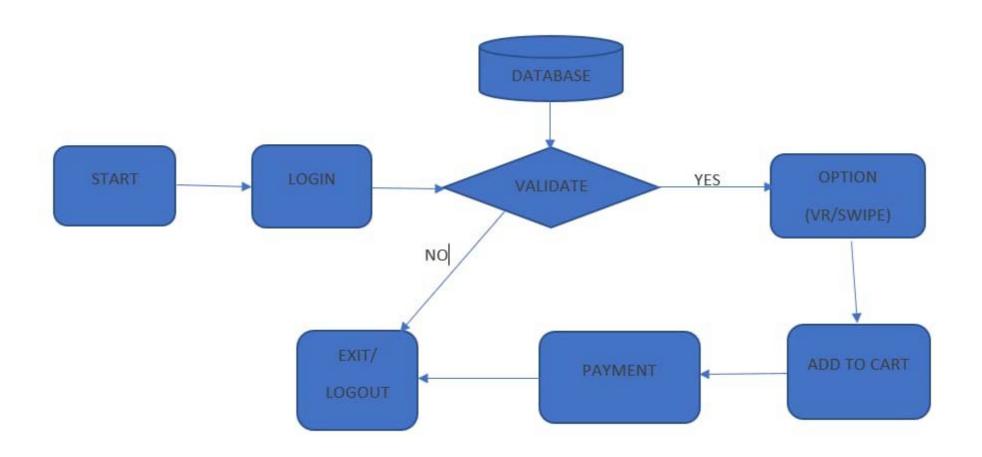
Review Suggestions

• Decide if it is going to be a desktop app or a mobile app (Using Android store, mobile app will be developed)

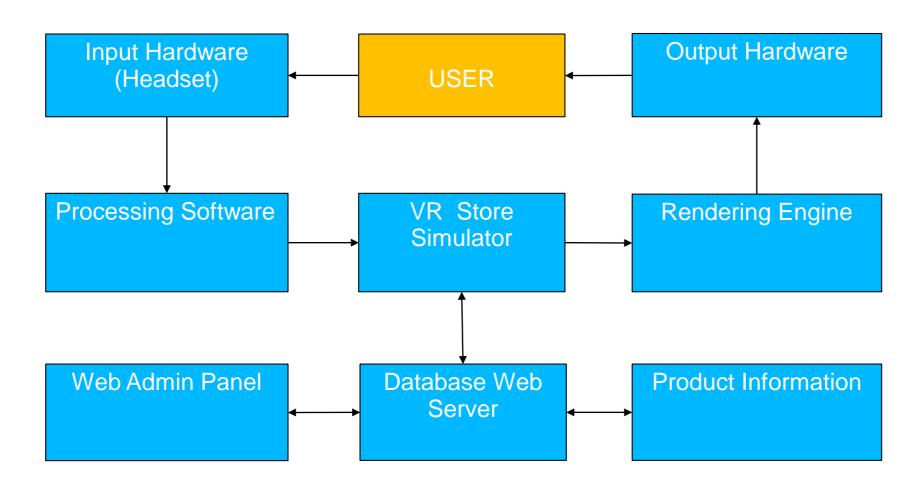
Finalize the Products range
(This app will be focusing on all the things available in Grocery Store)

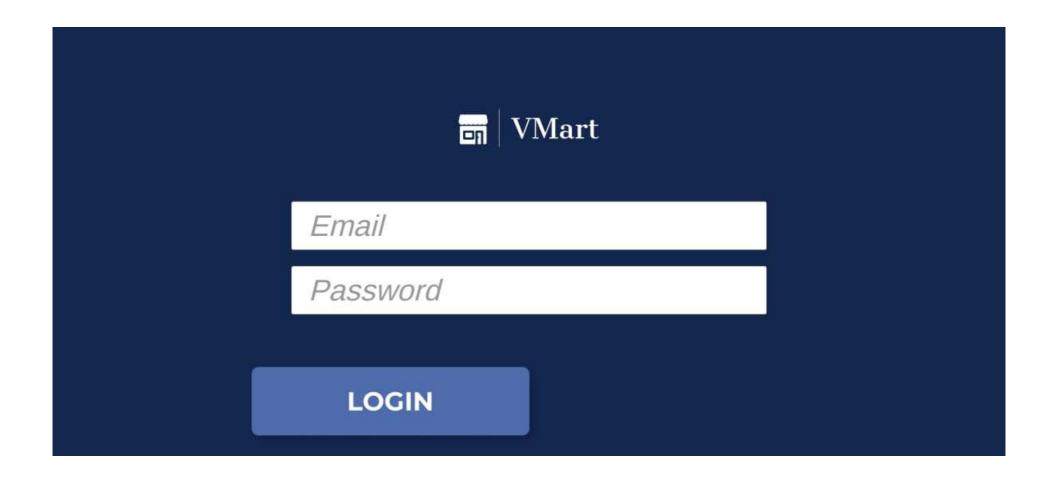
• Implement recommendation system

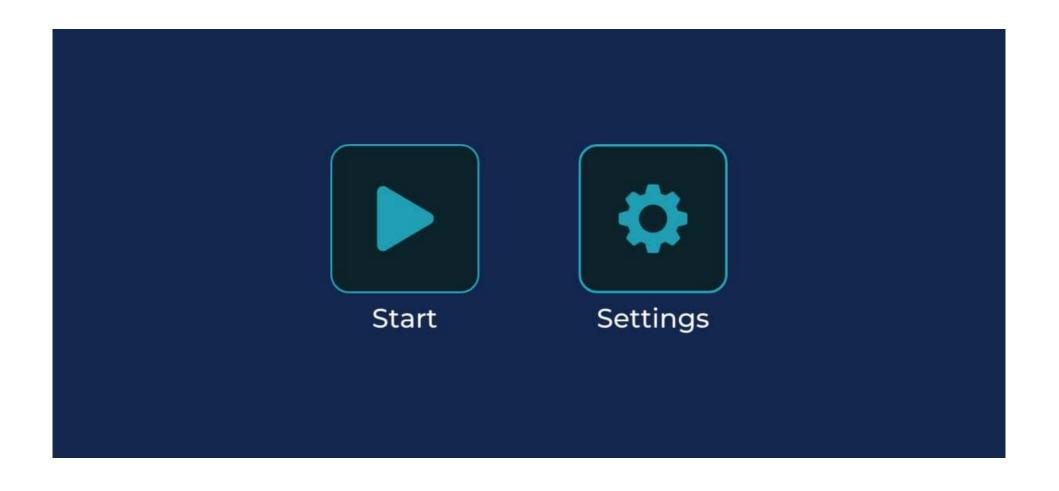
Proposed System Architecture/Working

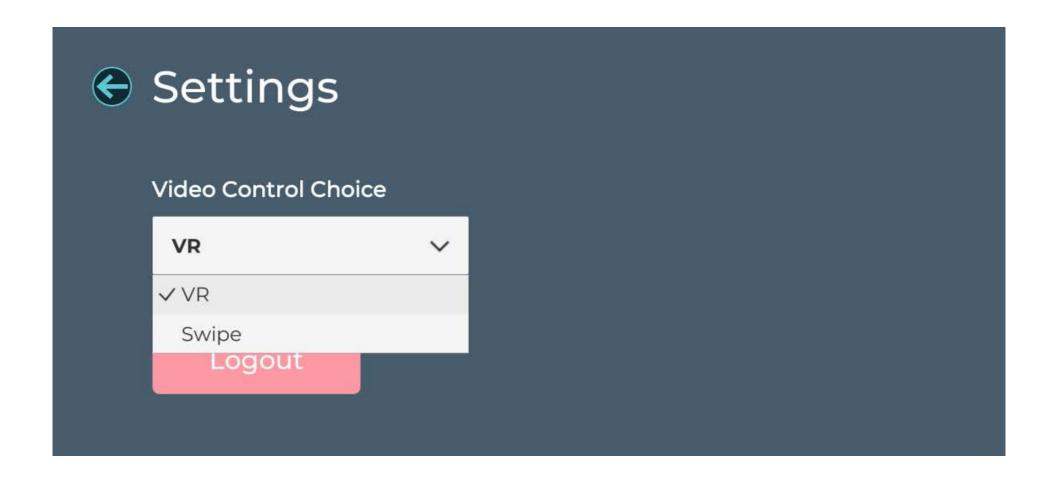


Prototype Design Demonstration











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

• ICCIS 2021 International Conferene on Communication and Intelligent Systems..

Thank You...!!