Group - 4

RentorsAR (AR Products Try-On Application)

PROJECT SYNOPSIS

(MAJOR PROJECT)

DIPLOMA

(COMPUTER SCIENCE ENGINEERING)

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Under the Supervision of Chander Kant Virdi Devdutt Baresary Amanjot Kaur



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DECLARATION

I hereby declare that the project work entitled "RentorsAR" is an authentic record of my own work carried out as requirements of major project for the award of degree of diploma(cse) from lovely professional university, Phagwara, Punjab under the guidance of Chander Kant Virdi, Amanjot Kaur and Devdutt Baresary, during January – April 2022.

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Date: 20th April' 2022

This is to certify that the above statement made by the student is correct to the best of my knowledge and belief.

(Chander Kant Virdi, 27350, Assistant Professor)

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(Amanjot Kaur, 27623, Assistant Professor)

ACKNOWLEDGEMENT

We are grateful to Almighty God for giving me the strength, knowledge and understanding to complete this project.

Our profound gratitude goes to our wonderful supervisor, Chander Kant Virdi sir, Amanjot Kaur ma'am and Devdutt Baresary sir for their invaluable support, patience, time and guidance in seeing us to the completion of this project work.

We also extend gratitude and appreciation to our lecturers in cse department who have taught us at one point or the other. May God continue to bless, protect and guide you all.

We also wish to acknowledge the great support of our parents, siblings who have been a source of inspiration towards our academic pursuit. God bless you all.

we will not cease to acknowledge the support of all our friends and my team members.

Thank you!!

PROFILE OF THE PROBLEM

- In today's world technology has advanced so much but still people are not having so many options to try the products virtually in real-time.
- After you like any product online, when the same arrives you sometimes don't like that product so much.
- But if you are having an option to visually see how that product looks on you and your place maybe you could have made a better choice.
- Through our application user can see the real products in real-time and help make better product choice before buying anything.
- Through our application we provide the end-user an option to try-on different category's products.
- The name of the application and website is "RentorsAR". In this app and website, the user can login on the platform and can use their user credentials to access their account.

EXISTING SYSTEMS

In the current time scenario, the AR market has started noticing the augmented reality where people can buy the items while virtually seeing those products.

But those applications are mainly consisting of interior decoration of the user's home and are foreign based.

Our application is based in our home country and provides the users with AR products which are not yet developed in the market or are not so good as per the user experience.

Our app provides user to buy and preview item in India.

SCOPE OF OUR PROJECT

✓ Features:

- Augmented reality product try-on.
- Many categories available to try-on.
- Different color option for products.
- Different price options to choose from.
- Weblinks for different purchase option.

✓ What is there for the users?

- In the current ecommerce market, there aren't much options available to virtually tryon the products.
- And due to the pandemic online shopping has increased drastically over the months
 and, many a times users have made wrong product buying choices.
- To overcome the drawbacks of those applications we have developed RentorsAR, an augmented reality solution for products try-on at your sweet homeplace or anywhere you like.
- Our application provides the user the platform to try-on in real-time so that they can compare themselves which product is better for them.
- The main objective is to make the user directly see on themselves which product suites them or their place better using augmented reality.

✓ How it will be done?

- The application interface would be easy to use, user can select any category and see the relative products.
- On tapping each product, the same can be viewed on the user itself using an image target and a product description window will also be shown to the user.
- Color option will also be provided to users.
- Prices comparison chart will also be there to help the user decide better.

PROJECT PLAN

Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13
Project Activities													
Planning													
Design													
Coding													
Testing													
Delivery													

GANTT CHART REPRESENTATION

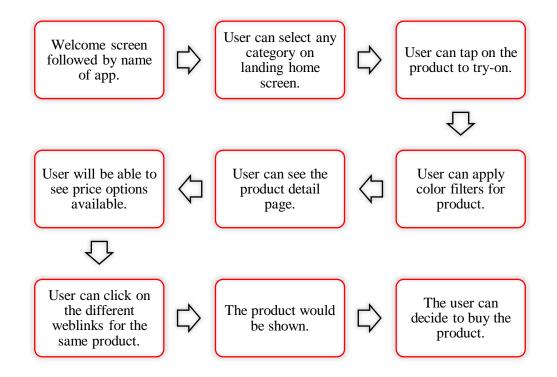
- > Steps followed in this project are: -
 - Requirement Gathering: In this step we looked upon various ecommerce applications and tried to find out the limitations and some drawback of those app and website.
 - Planning: We have set goals and defining the actions required to achieve the project goal.
 - Design: In this step we created the blueprint for the app and website which is to be developed.
 - ❖ Development: In this step we start the process of developing the app and website using the plans and designs we have created in the previous step.

SOFTWARE REQUIREMENT ANALYSIS

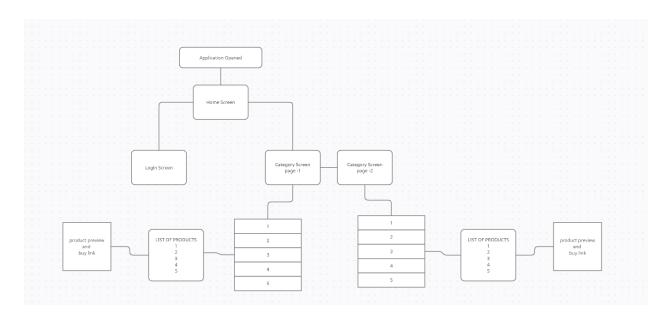
- > Facilities i.e., software/hardware required to design this app and website are mentioned below:
 - As a Software Development Platform, we are using Unity engine, Visual Studio 2019 for the feasibility.
 - For the mobile application we are using, unity engine as front-end technology and firebase as back-end technology.
 - As for the Hardware needs all the team members will be using Windows Laptop.
 - We use own mobiles for testing the app.

DESIGN

Flowchart:



Data Flow Diagram:



COMPLETE PROJECT

MAIN SCREEN-



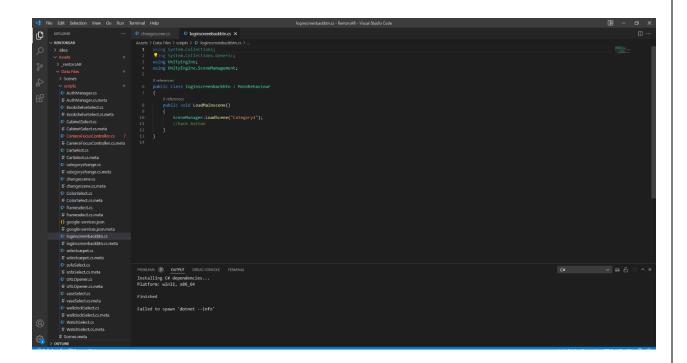
CODE FOR MAIN SCREEN:-

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↓ LOGIN & SIGNUP PAGE:-



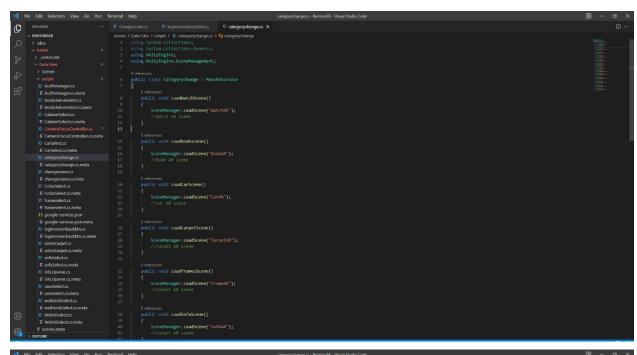
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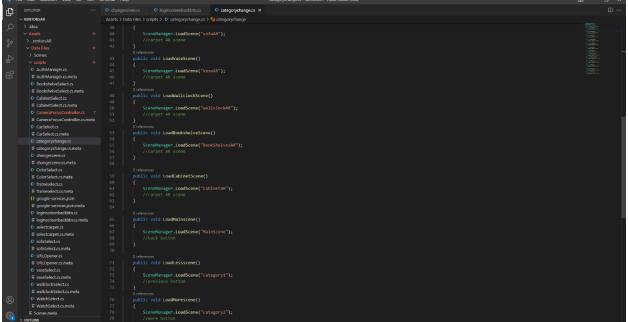








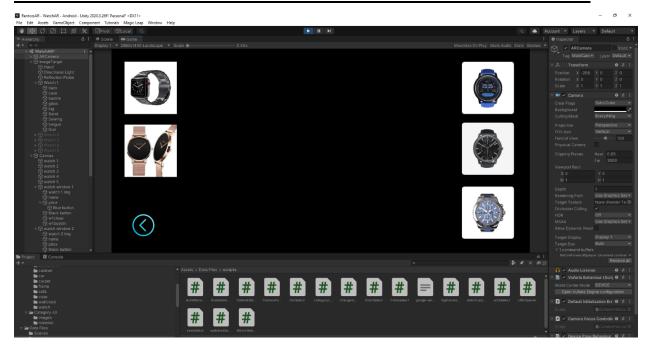


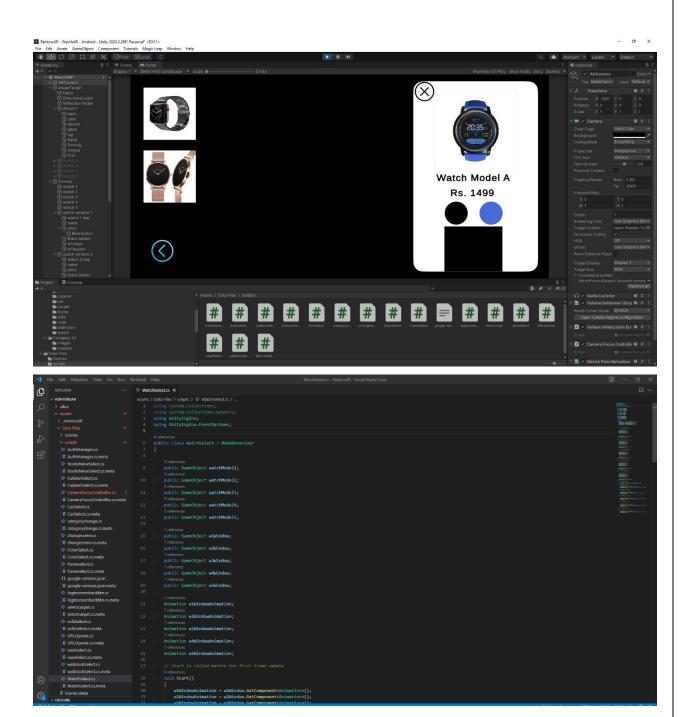


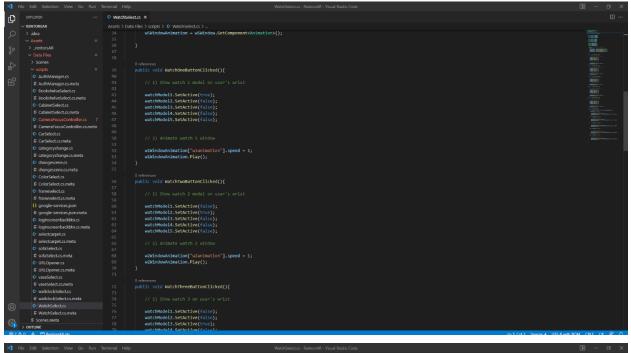
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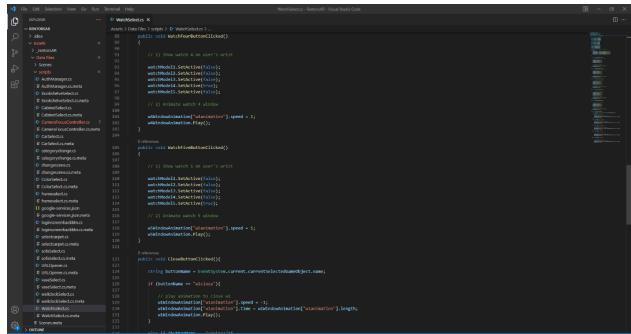
CATEGORY:

✓ WATCH – AR:





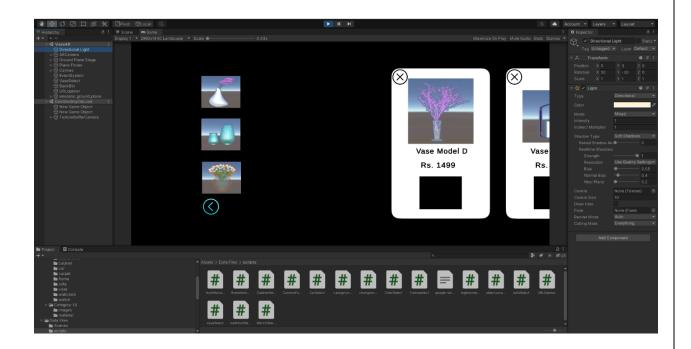


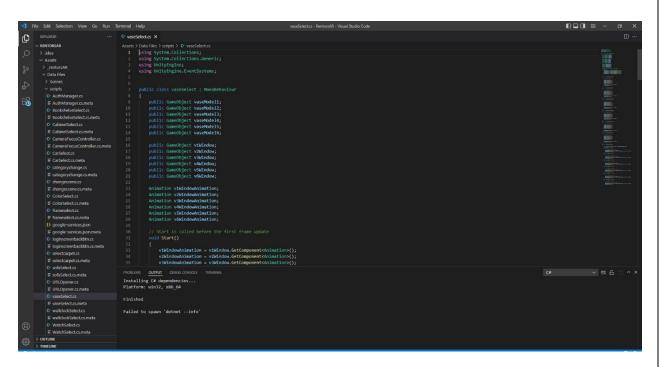


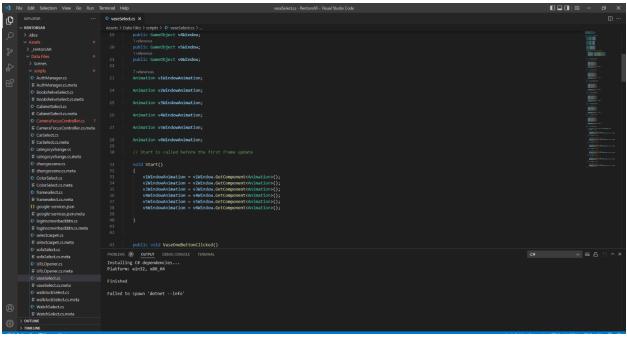
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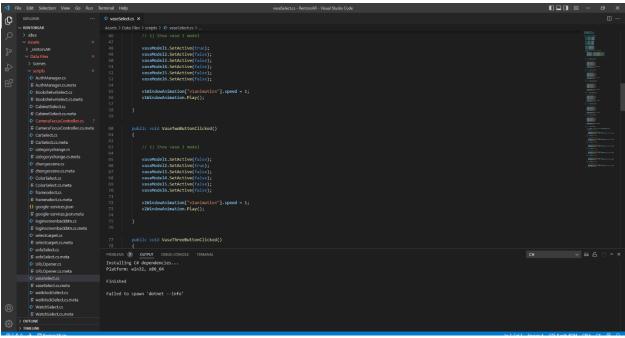
✓ VASE AR: -

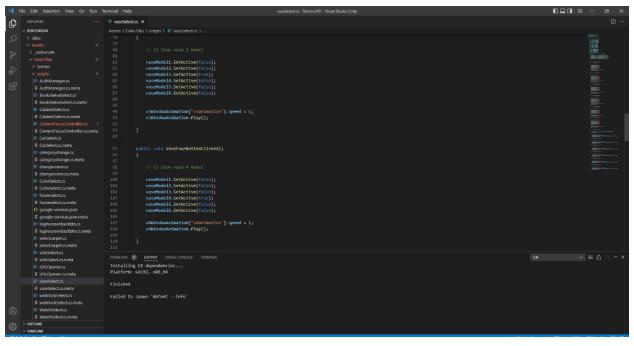


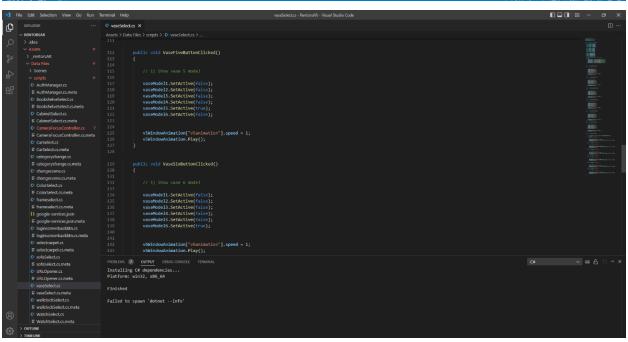


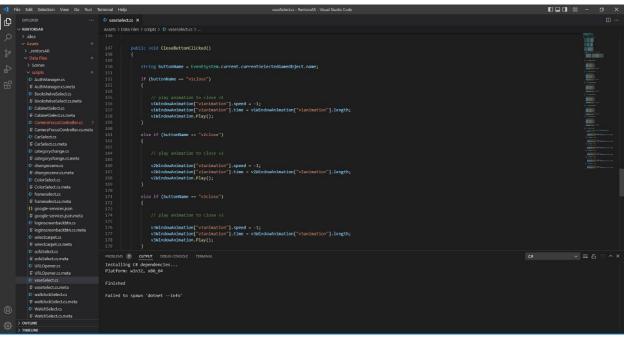


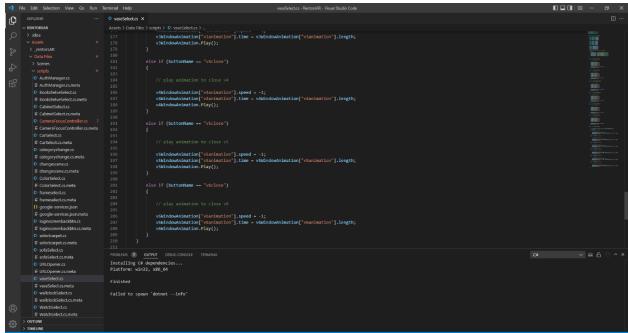












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Mini Tejaswi UPDATED: FEBRUARY 26, 2022 21:18 IST

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Srinivas Kollipara Published 30 Oct'18

Udemy Courses related to AR