

DES REPORT 2023

AR For Institute Events

Use Of AR For Project Display During Exibitions

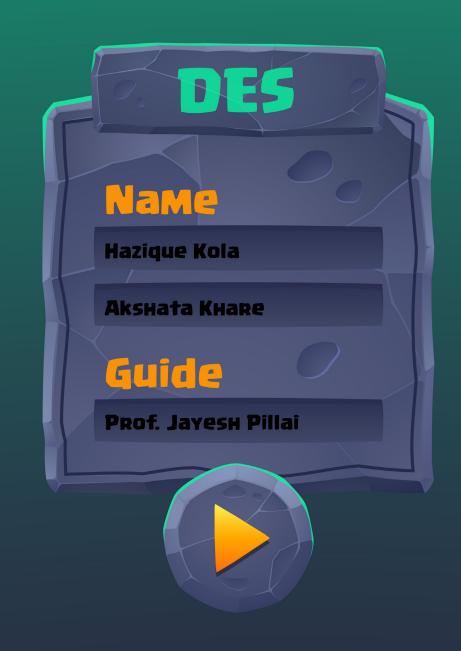
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Guided by:

Prof. Jayesh Patel





CONTENTS

Declaration

Project Approval

Abstract

Target Audience

Motivation

Incentive/ motivation to use the app

User flow, Wireframe

Explorations

Tibbi character explorations

App Explorations

Tibbi Development

Visual Style

Screens Developement

Technical Implementation snaps

User testing

Future Scope

DECLARATION

I declare that this written submission represents my Ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources. Sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated any idea/data/fact/source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also, evoke penal action from the sources which have thus not been appropriately cited or from whom proper permission has not been taken when needed.

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Roll. No.: 216450009, 216130011

PROJECT APPROVAL

This Design Exploratory Seminar (DES) project entitled "AR For Institute Events" by Akshata Khare, Roll No. 216450009, Mohammed Hazique Kola, Roll No. 216130011 is approved in partial fulfillment of the requirements for a Master of Design Degree in Communication Design and Industrial design respectively.

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Project Guide: Prof. Jayesh Pillai

IDC School of Design, Indian Institute of Technology, Bombay.

ABSTRACT

By employing Augmented Reality, information such as advertisements, posters, and announcements regarding upcoming events, launches, festivals, and more can be communicated without the need for printing posters, pamphlets, and other physical materials that result in waste generation. Our objective through this project is to propose an alternate solution that employs AR to disseminate information, not only reducing waste but also paving the way for further advancements in the digital space.

TARGET AUDIENCE

We started this project with the theme "AR in public spaces". We further narrowed down to IITB events. Having IITB residents (mainly students, and events are maily targeted to students) will give us the opportunity to analyse how ready we are to use AR for advertisemnets.

Assumption:

User group utilize mobile devices to locate and engage with information.

Challenge:

To determine whether users are prepared and at ease utilizing AR as a method of interacting with advertisements.

Can AR generate interest among the target audience?

MOTIVATION

REDUCE WAISTAGE

Numerous posters, banners and pamphlets are printed during college events to spread awareness about the event. There are mainly two types of posters:

- Posters informing about the upcoming event
- Posters used during events for advertising. E.g. sponsors posters in Mood Indigo festival.

Materials like paper, flex banners, sunboard etc., are used for printing and thrown away after use.



USAGE OF BANNERS/ POSTERS/ PAMPLETS

HOSTEL

Places such as lifts, toilet doors, mirrors, mess tables, room doors, bulletin boards. For certain events pamplets are even slid under the doors.

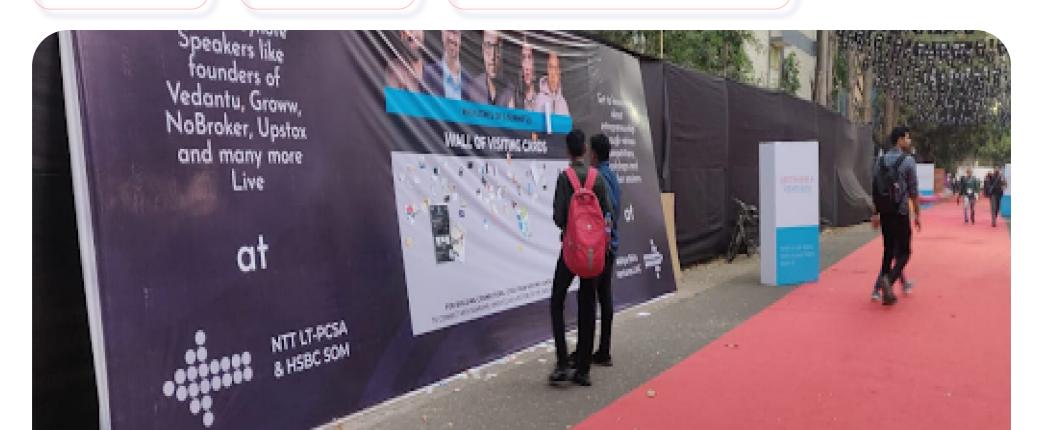
DEPARTMENT

Majorly, posters are used for event promotion. Sunboard, and paper prints are frequently used for project displays. Banners are hardly used in the college.

IITB CAMPUS

Campus events: Big banners are printed for culturals, tech and sport events withing campus. Events organised by the departments, institute bodies like gender cell, welness center etc.

Sponsor advertisements: During fests and college events, there are many banners advertising the sponsors.



EVENT POSTERS/ BANNERS WASTAGE @IITB

We did a survey on the wastage generated generated for a IITB institute event E-Submit and waste generated through posters in IDC for events.

Paper decorations Banners (Printed both sides)

(Printed both sides)



Image taken during E-Submitt 2023. This location is near cafe 92.



Lot of huge banners we used for decoration purposes.



We nocied old banners being taken down during the event.



Banners had dates written and thus cannot be reused.



We can see waste all banners on the left. Most of these banners promote a event with dates, which cannot be reused later, and thus the banner becomes a waste.



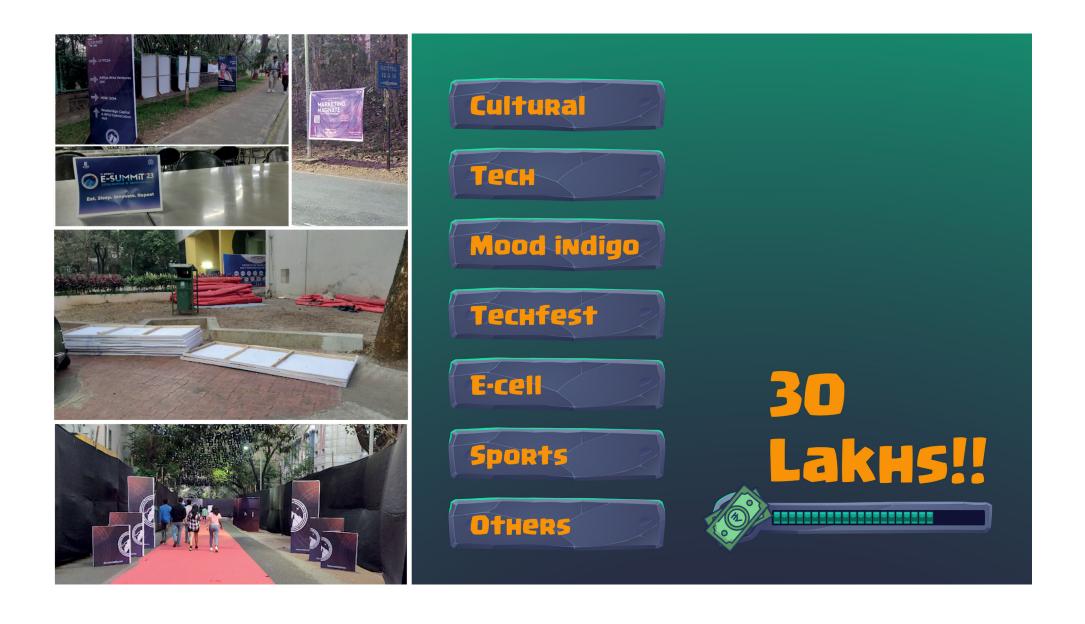
Image of plamplets taken at H15 hostel. During every event these pamplets are put up.



Banner at H15 turn. This is where most of the banners are put up.

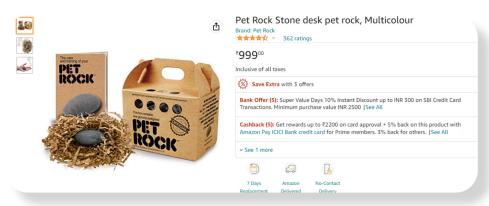






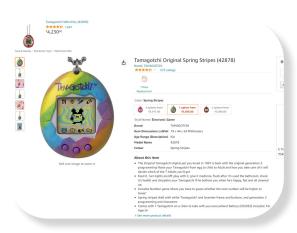
INCENTIVE/ MOTIVATION TO USE THE APP

PEOPLE LIKE HAVING A PET/ BUDDY



PET ROCK

even a simple thing like rock, when given a name and a manual (to do things) gave a non living thing a personality and people were willing to spend money for it, even though rocks are very common and easily available.



TAMAGOTCHI

people like to have someone to play with and something to call their own.



TALKING TOM

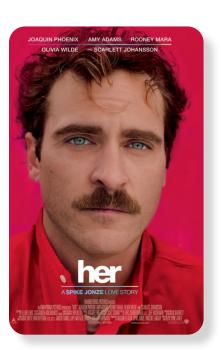
People like to have someone to play/ interact and respond to our actions.

PEOPLE MAKE CONNECTIONS EVEN WITH MACHINES IF THEY RESPOND WITH EMPATHY AND SYMPATHY.



ANIMATED FILM- BEST FRIEND

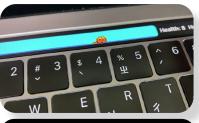
People feel lonely and things that give them comfort and affection, they tend to get connected with them (behavioral and reflective design).



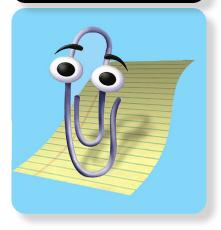
FILM-HER

They like to keep coming back and keep interacting with the product.

They take help of the OS to perform task and things become easier and faster for them.







DIGITAL COMPANION

Having a character makes the product looks friendly.

PEOPLE LIKE A STUDY/TASK PARTNER. (EXTRINSIC MOTIVATIONS)











APP- STUDY BUNNY

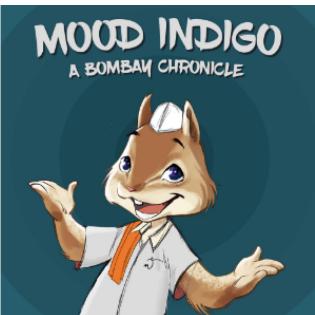
There are online platforms as well, where people like to study together. Having a companion while working gives extrinsic motivation and a company.

PAST IITB MASCOTS

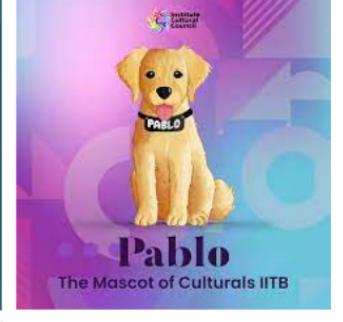
Before creating our own character, we searched mascots used currently and in the past.

ICC Culturals uses "Pablo" (a dog at IITB campus) as their mascot. Similarly, robots, squirell, leapord, crocodile can be seen being used as mascots for college events.









The above images are downloaded from the Internet.











The above images are downloaded from the internet.

APP BUDDY



Inspiration: Google Maps AR, fox concept

When you're unsure about your next move, you can hold your camera up to the street and your surroundings, and Google Maps will be able to provide you with a range of helpful specifics, like how many feet there are to your next destination, or whether to walk forward or back, or turn left or right.

Source: https://mashable.com/article/google-maps-ar-fox

BUDDY NAME: TIBBI

When said IITB faster, Tibbi comes out, and hence the name of the buddy. We also though of names like Alpha, Gogo, Zero and finalised on Tibbi.

CHARATER

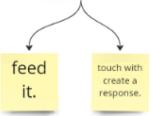
When asked the students of IITB the character they would like, **robotic** character was a popular choice.

Buddy

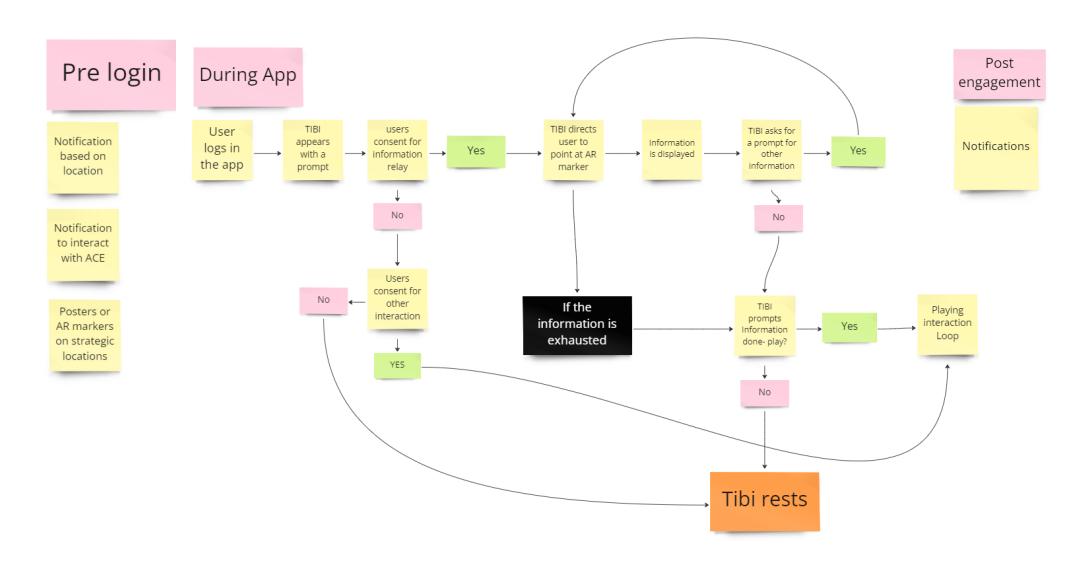
A companion in the AR app

Users would need a motivation to open the app and access the information

shows the way to advertisements. E.g. pablo (dog) showing the way. can play with the character

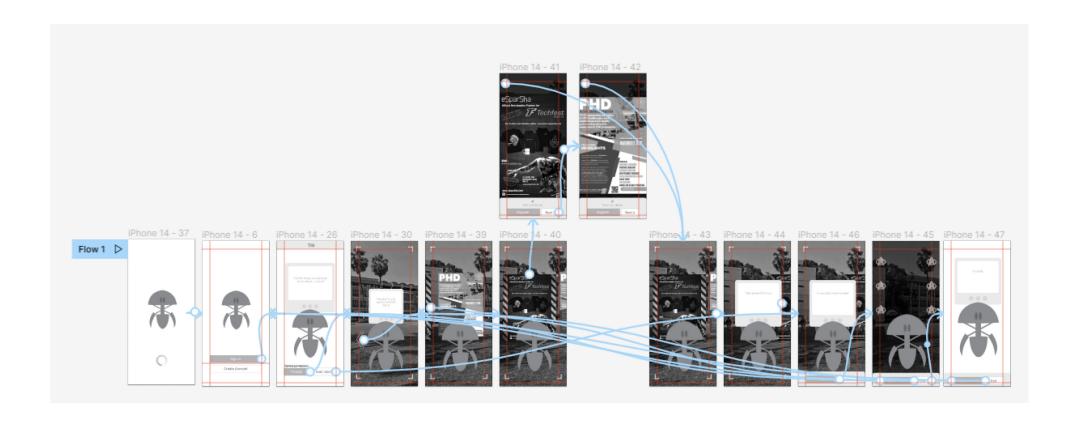


USER FLOW

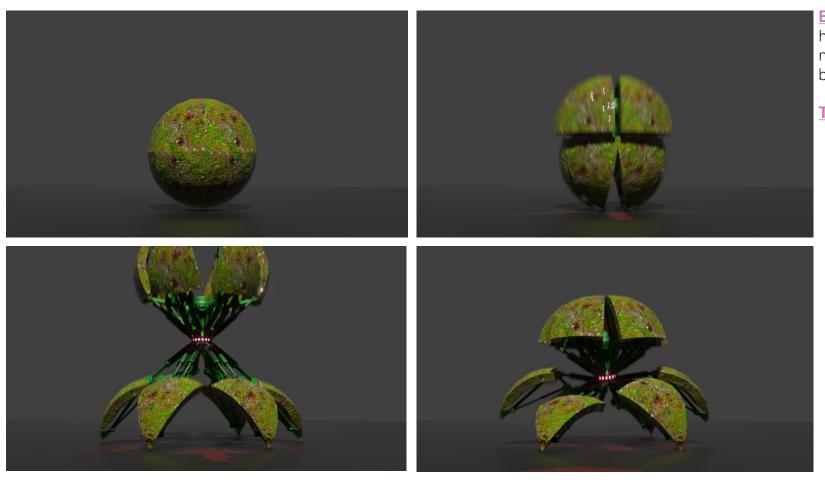


WIREFRAME

https://www.figma.com/proto/sckGsy4XSB8BrDQfZOzOlb/Quillbot-Task?page-id=0%3A1&node-id=14%3A107&viewport=646%2C132%2C0.28&scaling=contain&starting-point-node-id=22%3A711



TIBBI CHARACTER EXPLORATIONS



Base Character credits
https://free3d.com/3dmodel/sphere-botbasic-50922.html

Texture credit

APP EXPLORATIONS

STAGE 1









TIBBI DEVELOPMENT

VERSION 2

We tried to make Tibbi look cuter and more approachable. We made the edges softer, added eyes, changed the texture and kept the color orange.





VISUAL STYLE

ELEMENTS

We had some keywords like: close to nature, save environment, playful, friendly, informative etc in mind. We looked at few references and existing apps Online. We liked the UI of Pokemon Go mobile game and Superpercell game series. The following are some of the explorations.

Fonts used: Supercell-Magic

LOGO









Final Logo

In the earlier logo, it was giving a feeling of eatery app due to its colour and icon. We then tried to make the icon character more friendly and went with a green gradient for the background.



VERSION 1















Loading

Login

about App

Intoduction prompt to scan

to view the posters.

Dropdown menu for other optons like: project list, play with tibbi, about app and exit.

on clicking a poster we can see it full screen and navigate. There is also an option to explore further links on the poster like student films.

Play with tibbi. There will be different options of actions of what we would like Tibbi to do.

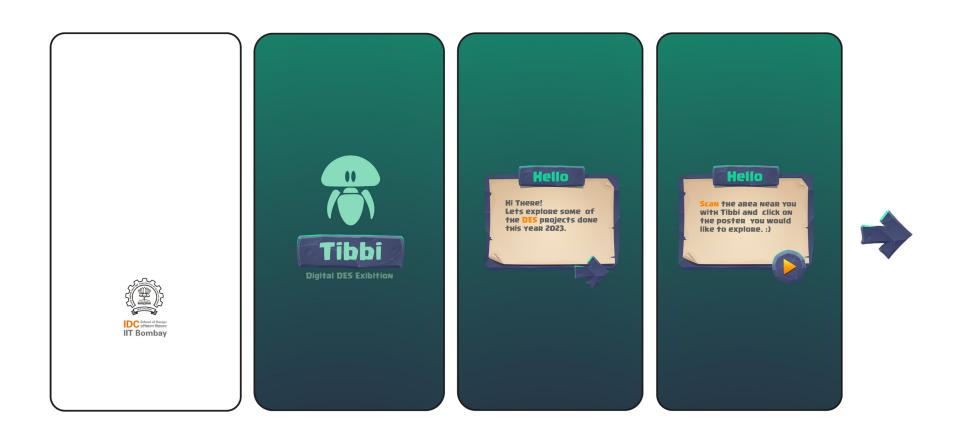
App a friendly feel. Since this project aims to reduce the waste generated during events and promotions, we tried to have a theme close to nature and paper.

In the first version, we tried to use orange to give the



Version 2







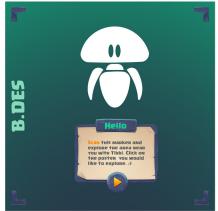








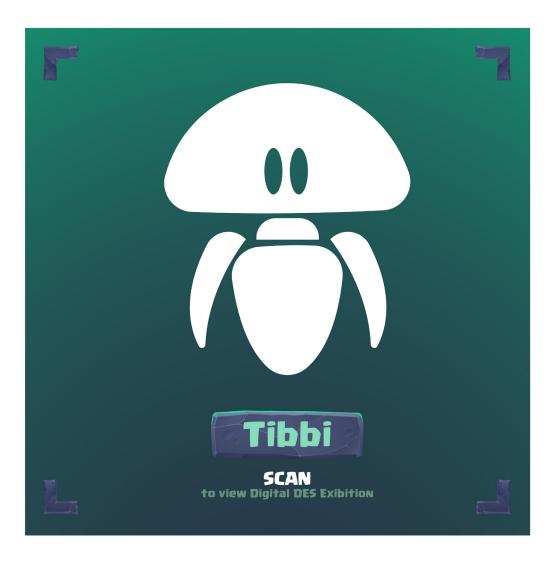


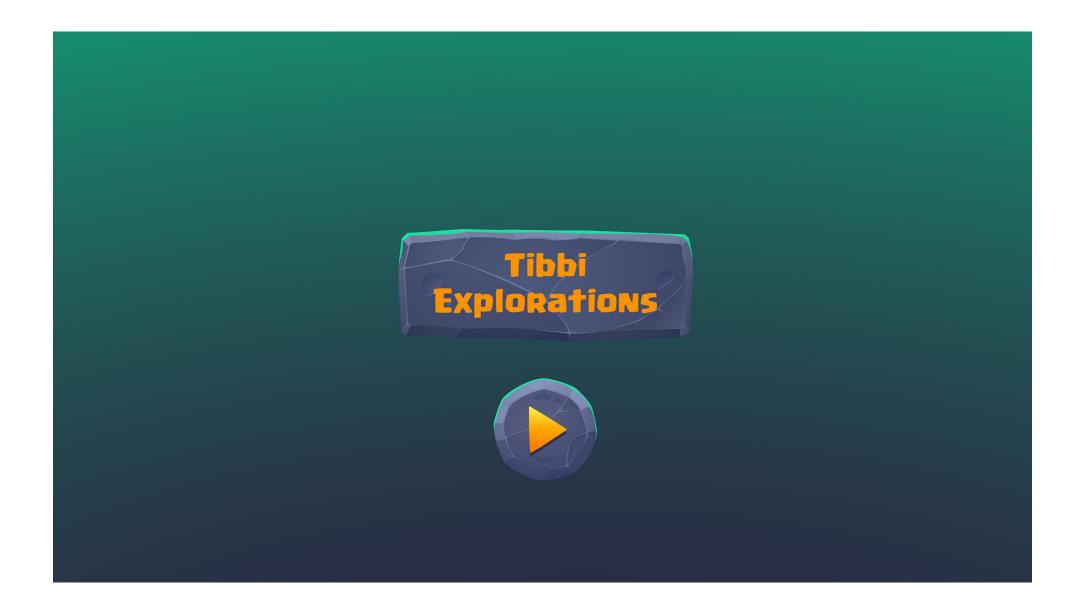






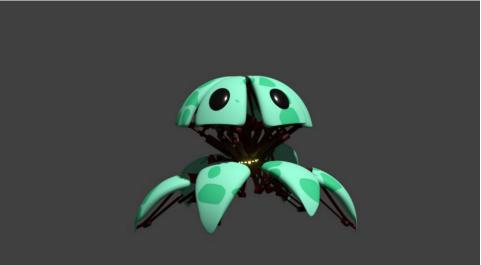




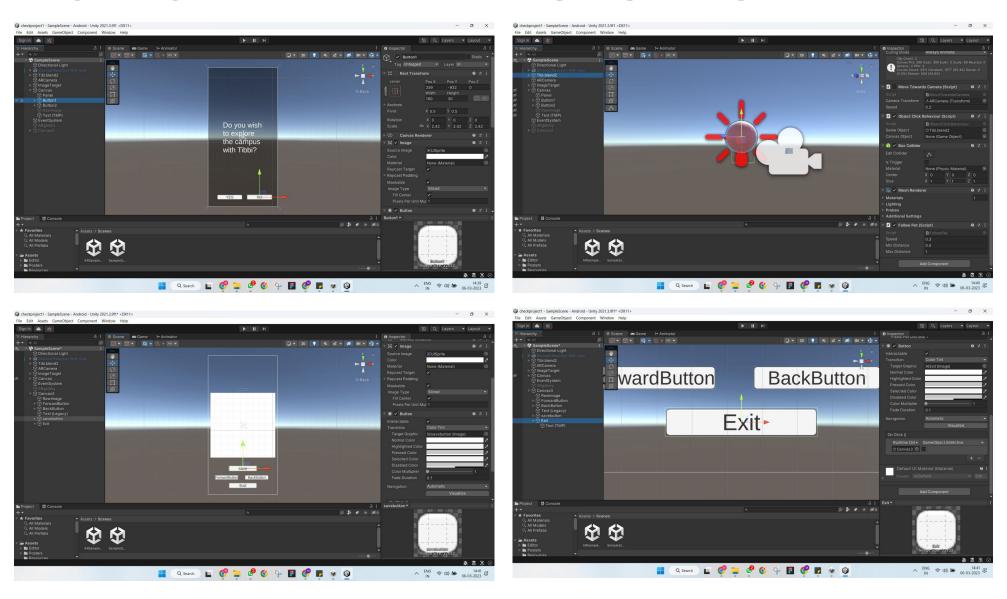








TECHNICAL IMPLEMENTATION SNAPS







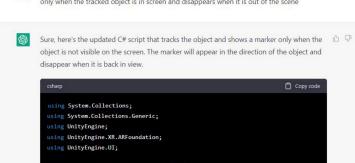


ChatGPT

write a C# script for unity to perform the following function. track the object if it is in the view of AR camera. If the object is not in the field of view, add a 2D marker image on the screen. Add the marker in the direction of the object. the marker appears only when the object is in the view and disappears when not in the view. The marker should be in the corner of the screen in the direction of the object. The script should take canvas as the imput

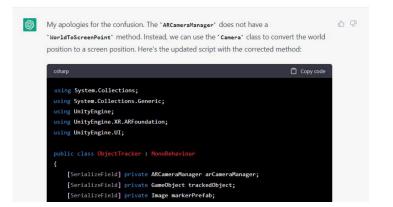
Note: This script assumes that the tracked object is always visible in the scene and that the AR camera is the main camera. If the tracked object can move out of the scene or if there are multiple cameras in the scene, additional checks and modifications may be needed.

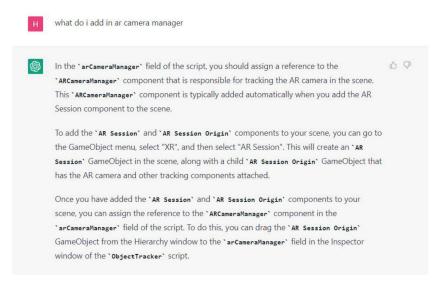
H rewrite the script considering the object is not visible in the screen and the marker appears only when the tracked object is in screen and disappears when it is out of the scene

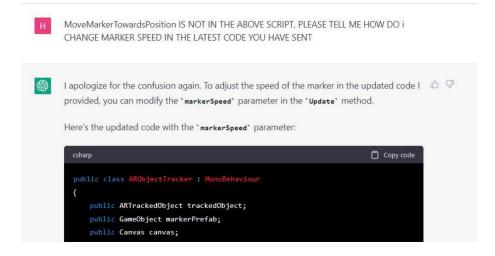


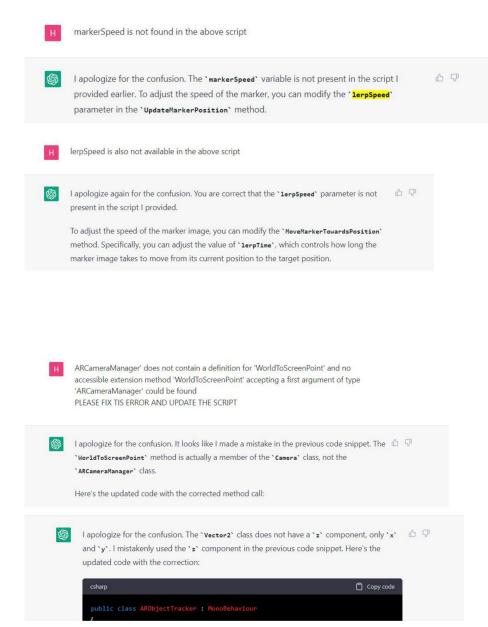
'ARCameraManager' does not contain a definition for 'WorldToScreenPoint' and no accessible extension method 'WorldToScreenPoint' accepting a first argument of type 'ARCameraManager' could be found (are you missing a using directive or an assembly reference?)

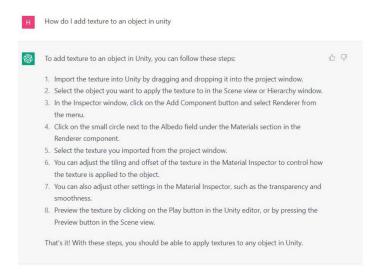
This is the error message, update the script

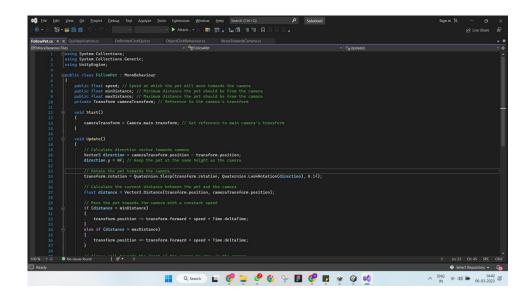






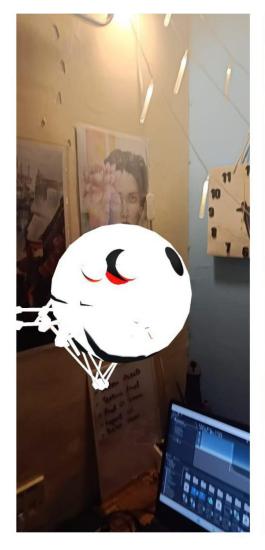






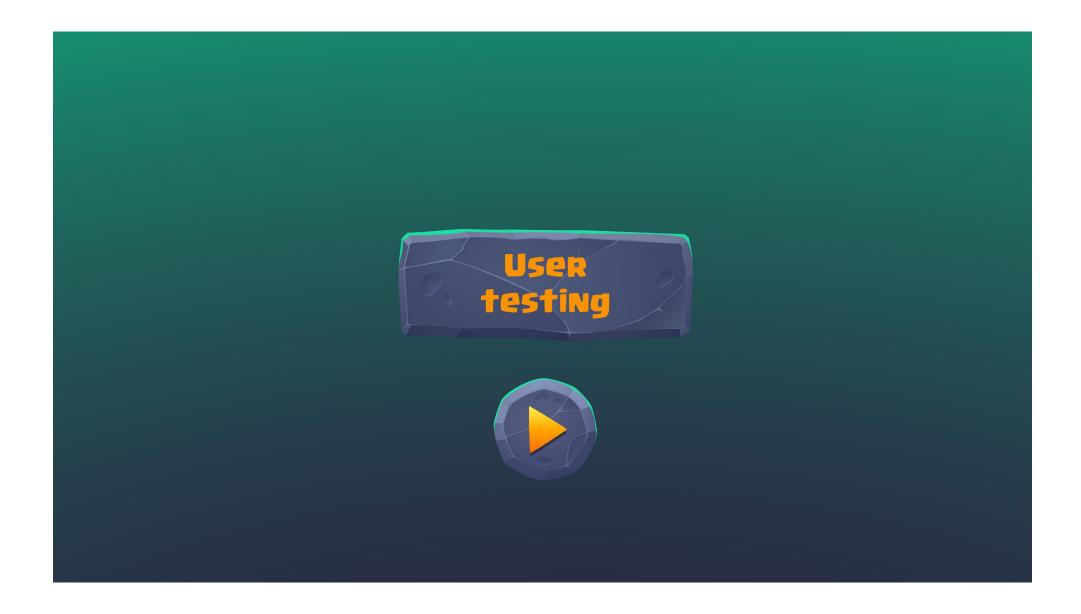
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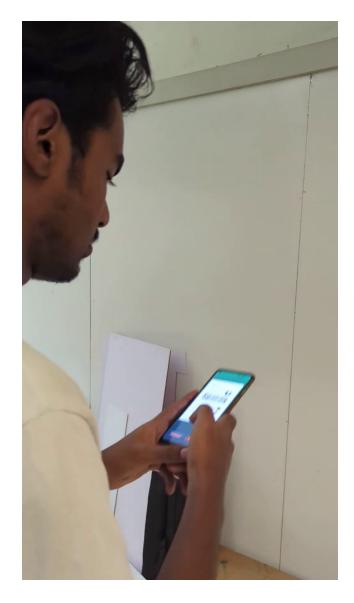




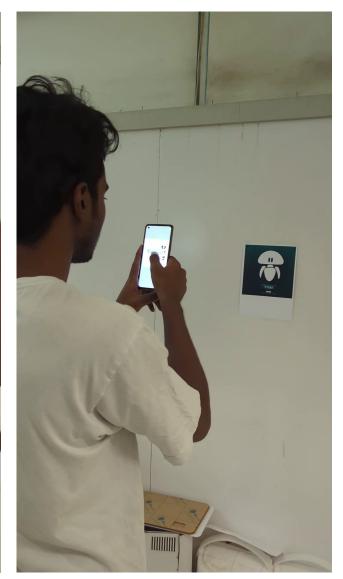


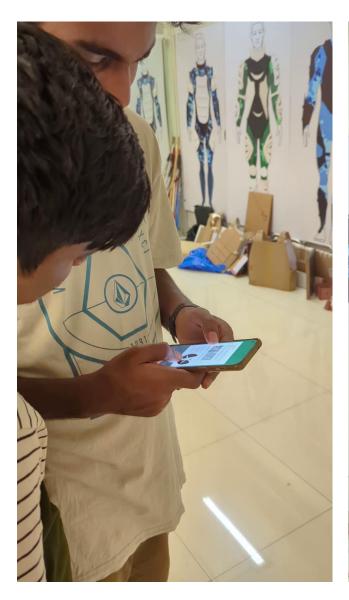


USER TESTING





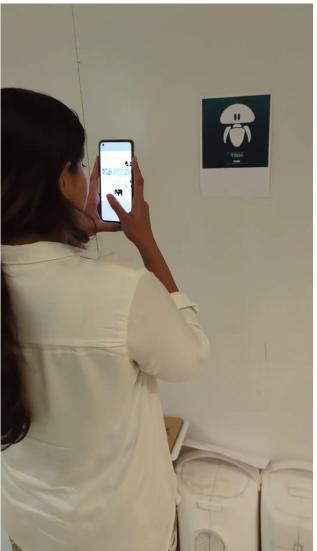




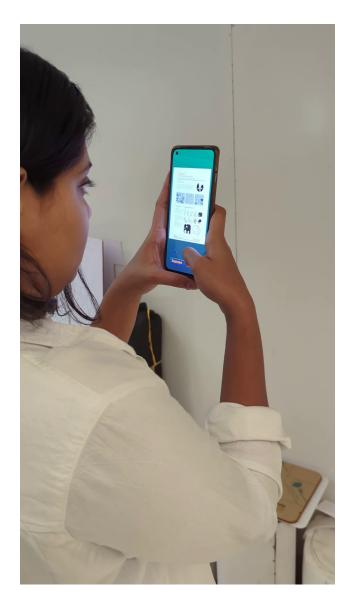


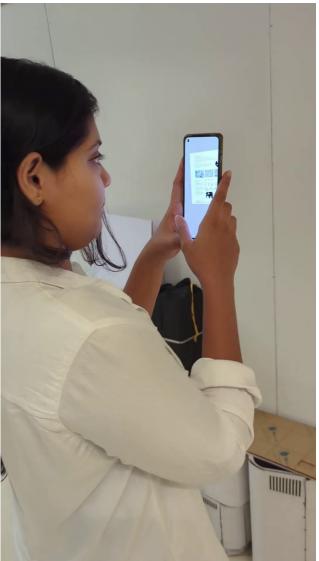








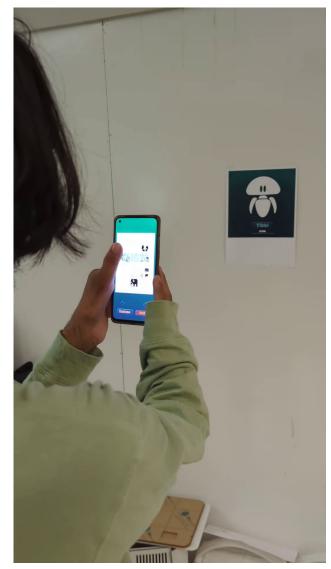










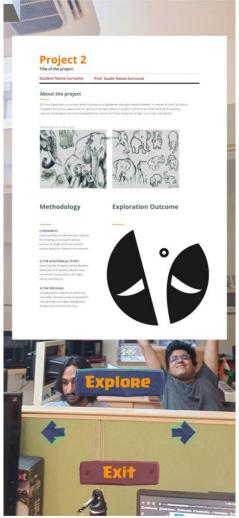














FUTURE SCOPE

