Resting Sayt AR Experience

Case Study Details

My role

Creative and AR designer and developer on the project

Tools

Unity AR Foundations, Blender, Photoshop, Premier Pro

Figmaboard

Adobe Assistant of Art

Methods

Behavioural prototyping, AR testing, Non participant observation

Timeline

February 15 - April 30

Design Challenge

Create an augmented reality experience that will inform museum patrons of the historical significance of the Desmond Resting Satyr

Final Proposal

Story Time

While stuck at home due to the pandemic, Amanda misses being able to go her favorite art museum. So she decides to go to the Gateway's online gallery and view their extensive digital collection. To her surprise she notices that there is a new piece in the collection that wasn't there when the gallery home page. The Resting Satyr AR Experience caught her eye and she immediately decided to visit the piece in person.

A QR code appears on her screen along with a prompt encouraging her to bring out her smartphone and point it at the code. She doesn't quite know what to expect but she pulls her phone camera at the code and is surprised to see an application installing on her phone.

She is welcomed into the app and shown how to place models in AR space. Once placed she recognizes the statue for one that she has walked by many times before. She is introduced to a few statues she has walked by many times before and is excited to learn more.

Amanda is thoroughly pleased with the experience that she learned and has a much greater sense of appreciation for a statue that she had ignored in the past. Plus she is excited to tell her grandchildren about how she used an augmented reality tour!

If you are interested in trying it out for yourself feel free to click the link or scan the QR code below.

Android

In Person Research

History Review

During the presentation at the museum the class was given a guided tour.

Mona Hoy professor had studied the Resting Satyr and his opinions for the project is well versed in the subject matter of the piece. Instead of my guiding Mona on how to use AR, I took about the data from them and their writings.

Mona's opinion was very helpful in the sense that the information that I used to create the AR was not subject to the educational section.

Reflection

Mona's the point I had with spent why she's studying art history in museum curation. As a was an interesting overview to a plaudits how both gallery was designed to be a way has been used was shown from a set time of artifacts and general info purpose to where the larger intended.

Mona's opinion was very helpful in the sense that the information that I used to create the AR was not subject to the educational section. Plus she's interest created was to make sense as a visitor, place someone's interest in it which about how they were looking.

Participant Observation

The AR Experience was given to museum patrons at the end of their visit. I was able to observe how they were using the space around it.

Our intended point of view will be what the museum guests had to say about the AR experience. Did they enjoy it? Was it easy to use? Did they learn anything? Did it make people stop and spend more time looking at the piece. They spent most of their time looking at it before and in the cases.

Reflection

The value of observing because as you can see the Satyr does not have a lot to look at on the surface, it is missing almost all of the things that make it human and therefore it is not very interesting to look at.

However, the purpose not a critical make-less of gaze, it's more the purpose in the first place. The idea is meeting appendages case, as opposed to because that, because it hasn't that. I could create their replacement and another way to replace them that with augmented reality, it's an extra detail layer over an existing physical artifact. So I can see people are excited about that when will be observing the pieces of art an energy that I'm creating designed environment.

Remote Research

I was in Steamboat Springs Colorado after having just driven 20 hours when I found out that not only is the ski resort closed but so was my university and the museum. So I would no longer be able to design for an in museum experience.

Thus began the pivot towards an in home educational experience...

Behavioral Prototyping

Takeaways

Simple is better when it comes to navigation buttons

Guided story line is preferred over free exploration

Adjusting to AR can be difficult for first time users.

"I really like that, even though we can't go to the museum we can bring it to us!"

— Ann Student

Participants enjoyed the ability to see the pieces of art outside of the normal museum setting. They like that we can examine it any of some way our hands. Interested from was that with confusion.

Competitive Analysis

Mesh Mixer Model 3D Gallery Tool

Takeaways

Successful virtual experiences

Add to reality, stay out of your face is

Maintain an air of professionalism found in their galleries.

Stay true to their educational or journalistic goals.

To get ideas about how to define the experience in home I decided to do some research about how other museum have created digital artifacts that can be viewed from home.

Smithsonian's Sant Ocean's have a wealth of digital 3D and AR museum artifacts save through and of Latvia.

There were too much types of experiences that I found. The first and most popular was the 3D digital artifacts that could be viewed in AR or in the browser. Some of the 3D digital artifacts were of whole AR missions, the story that I was drawn to were the ones that created an all new experience. Something that the physical museum could not offer.

Development

Learning Unity

Reasoning

I decided to use Unity even though the rest of my class was using a software called Spectacle. I chose to do this for a few reasons. The first being I wanted to be able to use the skills that I learned during the class to do something that I can work on and show that to why in industry standards I grow and AR development has matured. I was excited to learn a new software that I could add to my skillset. I also wanted to challenge myself and learn the app and more what the things that, as a code base that keep having to download new app and I found I will probably only use once.

In person design

Digital museum tours are a popular way of bringing people into the realm of a non-operated tours viewer. Where people would be able to view the AR viewing piece. I felt that this would be a disappointing experience for those who were passionate to visit a object as galleries and augmented reality engines.

In Home Experience

Luckily with Unity I was left foundations package in was an easy point from. Object recognition to drop in place in most experiences.

Reflection

So anyone who has taught themselves how to develop in Unity can tell you, they are constantly updating everything. Which is why so many people can only because they are constantly learning and updating. However, that also means many sources online that a week is basically obsolete. To see things done AR Foundations is a brand new package (2020) was only in existence recently in developing it, so systems are even more frequent and broken. Needless to say, I spent much more time in development than much of the time I had planned for.

I don't have a lot to point of because how I had a good amount of understanding for how Unity works and I can develop basic virtual experiences of any kind. I also have gained a decent grasp on C# scripting which I have been wanting to work on for a while now.

First Working Iteration

Audio Tour

Good

- Clear, unobscured button layout, no possibility of misleading information

Tags For Tutorial

Good

- Tutorial tags guided user to interact along with the virtual environment naturally, or also how to close tags.

Home screen

Good

- Clear, descriptive ability to choose their character, but needed to be put through the whole in one story.

Final Iteration

Audio Tour

Changes

- Swapped button positions to prevent mistaken interaction.

Tags For Tutorial

Changes

- Created a video tutorial that would play upon opening the app for the first time.

Home screen

Changes

- Created a linear process for the users to follow that was more descriptive and narrating was also brought into.

Reflection

Overall, I am pleased with the way the experience turned out, it is by no means perfect. However, I think that in the all of the issues that I determined during my compilation, I was able to create a decent AR experience.

It brings me very pleased that I've finished this into your home, but pass from around the world.

For experiences are completed from the visit that other people, to be exposed.

Most importantly it has been people the value of the Satyr and a piece like it.

Next Steps

Immediate Implementation

I have chosen not one of the top projects in the class to present in the section of the Desmond Museum. During that meeting the director mentioned that our projects could be used in the museum. I would like to present my project to the director and see if it could be implemented in the museum's digital collection. I've suggested that they may utilize part some of our projects in the museum or even put a link to one of their monthly emails.

Future Use

Our direct sponsor in the project of gallery has suggested that she would also like to bring some of our projects into the physical gallery once it reopens.

For now, we get the chance to implement my work seamless into their design.