Trine 360
Computer Science and Information Technology

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Introduction

Trine360 is a virtual tour of Trine Universities Campus. Before Trine360, Trine University never had a virtual tour. This is a project that will allow Trine to be accessible to all international students, prospective students, and parents of students. Visiting Trine should not only be accessible in person but also online.

Problem Statement

Many students are not able to visit Trine University in person. This could be due to those students being international, cost of traveling can be too much, or not enough time to visit campus in person. This can cause prospective students to be less likely to attend Trine University if they are not able to see what campus is like.

Customer Needs

With Trine University needing a virtual tour our customer Jenson Jiang asked us to include some features with the tour including

- **Navigation Menus**- Menus to see each building/location
- **Informational Boxes with Voiceover-** Including more information of the campus in these boxes with the option of hearing the information with audio.
- **Embedded Map**- This allows the user to click on tags to take the user to different locations on Trine's campus map
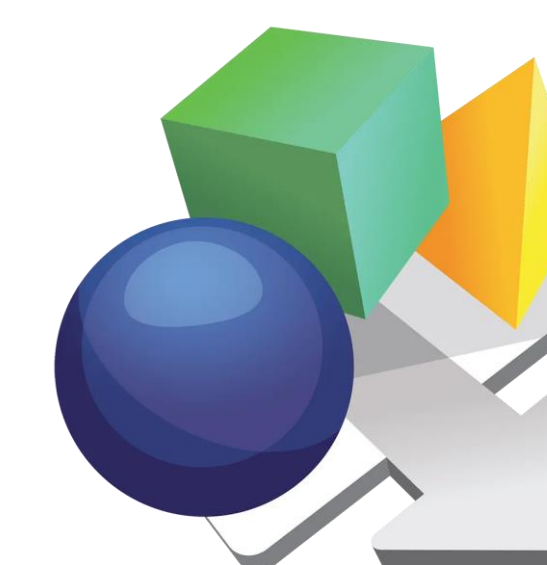
Challenges

Some challenges that occurred was:
- Taking pictures were difficult due to Indiana's weather
- Working with a bunch of different Trine departments. There were so many different things we wanted to include in the project and had to work with a bunch of different departments. This was a challenge because it was hard to find what department would be best to help with our project.
- Time was a challenge because we were not sure, if we were going to be able to finish the whole entire campus within this timeframe.
- Learning how to use Pano2VR and ensure all the different features were working correctly.

Technology Used

For the design concepts of the virtual tour Trine360 used the application of Pano2VR. This is a powerful virtual tour software that converts panoramic or 360° photos and videos into interactive experiences.
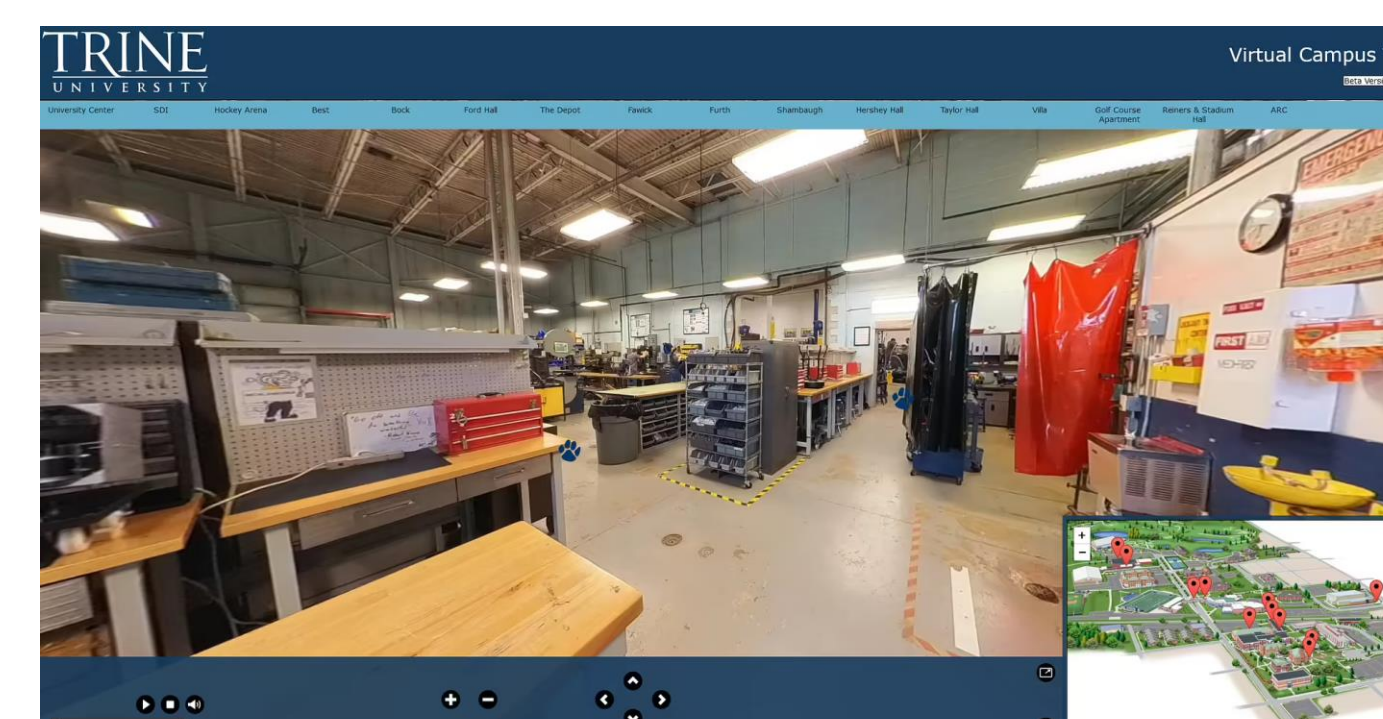
Our group used a 360° camera to capture the pictures around Trine's campus.

Final Design

The final design of Trine360 will be Implemented into Trine's website. This final design also includes features such as:
- Navigation Menus
- Informational Boxes with Voiceover
- Embedded Map

Conclusion

- International students, prospective students, and parents of students now have the opportunity to experience Trine's campus online when they are not able to in person.
- This project lays the groundwork for Trine to continue to update campus online year after year.

Lessons Learned

Over the duration of developing this project the following lessons were learned:
- How to use and implement pictures and develop the navigation features in Pano2VR.
- Developing a realistic timeline and working on time.
- How to utilize all our resources at Trine.

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