VirTour
Vision Statement
by
Github Reapers

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Project Statement

Background
VirTour provides an alternative to touring apartments. Why spend an hour touring apartments when you can do it from home? VirTour uses the landlord’s photos to create a 3D model of apartment complexes. Once created, prospective tenants can do a virtual tour through listed apartment and find the perfect place to stay.

What problem are we trying to solve?
1) Make it easier for prospective tenants to tour houses; every year college students visits 10’s of potential houses before deciding and signing a lease

Why is this problem important?
Generating virtual tours involves the usage of expensive cameras and a complex understanding of image stitching algorithms. With VirTour, landlords can easily generate quality virtual tours from their phones.

How is this problem addressed today?
College students + prospective tenants just visit houses non-stop until they find a house they like. Most of the time, houses in real life aren’t exactly like the pictures causing many students to waste their time.

Project Outcome
An app that would allow landlords to easily generate virtual tours for their properties. The app would prompt landlords to enter several images of a property and would generate a 1st person virtual tour that would look similar to the street view feature on google maps.

Milestones: Specification, Design, Prototyping
1.) Generate a photo submission page/controller for image stitching
2.) Implement a working image stitching algorithm that outputs a virtual tour
3.) (stretch goal) Extend virtual tour to be a usable virtual reality

Project Blueprint

Technology
- Image stitching w/ PNG images
- Frontend ReactJS or React-Native
- 3D modelling
- Amazon S3 Image storage
- Likely Rails webapp for image stitching and for external API hooks

Process Model
- Daily SCRUMS
- Weekly meetings with Appfolio on Tuesdays 5pm
- Slack and imessenger
- Github Version Control
- Trello Board