

Background

GCCTourGuide is an app that will help prospective students and their families get a look at Grove City College's campus virtually. Normally, students and their families have to sign up for one of the guided tours and have to stay for the entire hour-long tour, even if there's only one or two places they wanted to see. Users are able to learn about the main buildings on campus and learn fun facts and some history about them from the comfort of their home. They will be able to see a map with each building pinned at their respective location; tapping the pin will let them see more information about it, like its purpose, history, or maybe some fun facts.

Significance

GCCTourGuide will let more people consider Grove City College as a potential college to attend and help them make an informed decision about GCC. By taking away the need to attend one of the guided tours, people who are too far away to visit will still be able to learn what it looks like on campus.

Innovation

Users can see an interactive map where each building has a pin on their location that users can tap to learn more about. They can also look through a list of these buildings if they know its name rather than location. Tapping any entry in this list will show more information about the building as well as include a button to show that building's location on campus.

Approach

a discussion of how each of the required functionality points was implemented and why that implementation makes sense in the overall scheme of the application

Our app implements multiple optional variables, navigation views, scroll views, map views, tab views, and utilize MKMapView for our UI. The app has two tabs, one for a list of each building in our app and one for the map view with each building pinned on it. The list of buildings is implemented using a navigation view and a scroll view; each entry navigates to a page that shows more details about it, and both the list and the details pages requires a scroll view to be able to see all the available information. The map view makes use of MKMapView to present the map with all the pins and with each building individually pinned. Our data comes from local JSON data that we parse in order to use in our list and map views.

Implementation Specs

Ethan implemented AttractionListView's functionality (minus the "View on Map" button) and image framing with the GeometryReader, made attractions.json, ViewModel, and the model for Attractions. Ethan also set up the GitHub repository for the team; navigate to the details page via the building's pinned annotation.

Tyler implemented Tab2View, MapView (except navigating to the building's details page via a pin's annotation), and ContentView, as well as the styling of each page.

Eric implemented actual data (instead of dummy data), as well as recorded the demonstration video.

The Process

The project went the smoothest when we worked in person on it and broke up tasks for each other to do, but there were some complications. Getting the map to work took longer than expected and finding good images for the buildings was surprisingly difficult. Another major blow to the project is the discovery of YouVisit.com, specifically that they have a virtual tour of Grove City College. None of us on the team found it before starting, and only discovered it by chance through an advertisement on Facebook. Our app can teach you about the buildings and show you where they are relative to each other, but it isn't the best looking it can be, nor did we get around to implementing routing. In the future, this app could be expanded to include routing, functionality like Google's Street View or YouVisit that lets you virtually walk through campus but include the inside of certain buildings.