UNT Campus Explorer

My Gown, No Cap
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University of North Texas* | *Visitor Experience

Project Overview

Our project is an Android application that is designed to help potential UNT students and other UNT visitors get a more in-depth tour of the UNT main campus without having to schedule a tour through the Tour Center. Visitors will be able to use our application's features to not only navigate to buildings, but view pictures and other building information inside the app. In hopes of persuading visitors to use this app, they will be able to redeem gifts from the Tour Center for gathering points from visiting a certain number of buildings.

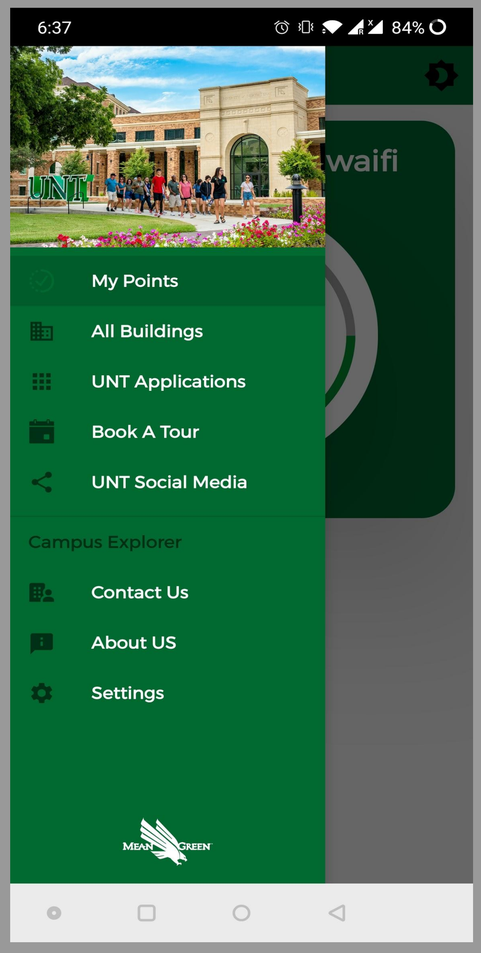
Features - Front End

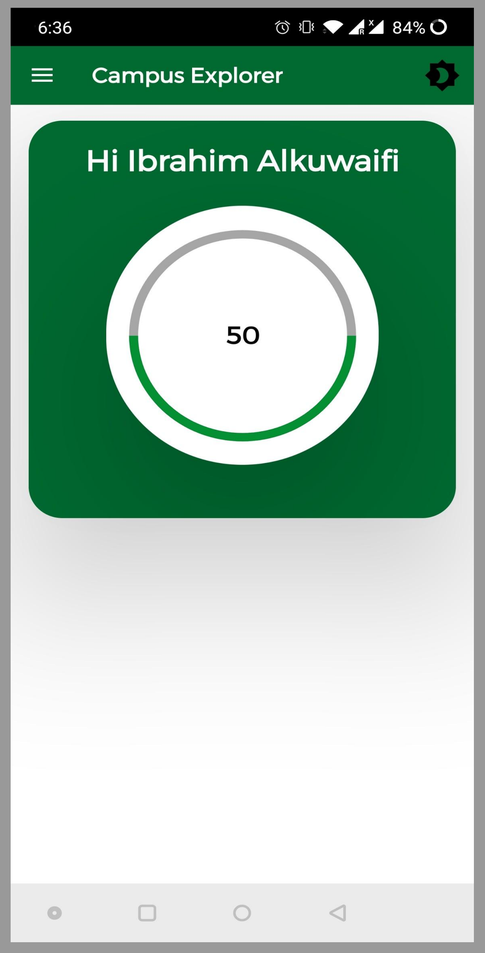
UNT Campus Explorer has many features that are helpful to the user and compliment the application's affiliation to the university. The following bullets depict the specific features that make UNT Campus Explorer exceptional:

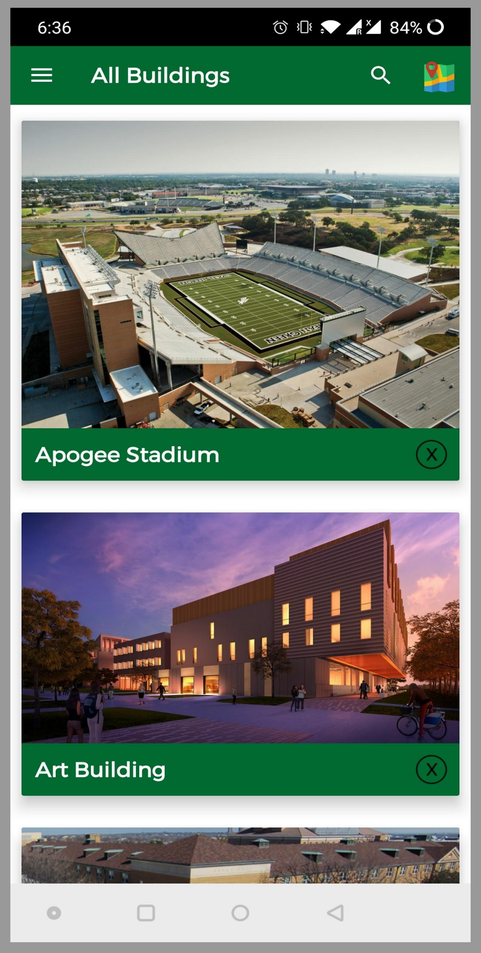
- **In-App Navigation / Access to Google Maps**
- **In-App Web Browser for Building Links**
- **Links to All UNT Social Media Platforms**
- **Progress Bar of Visitor's Points**
- **Dynamically Updated Database**

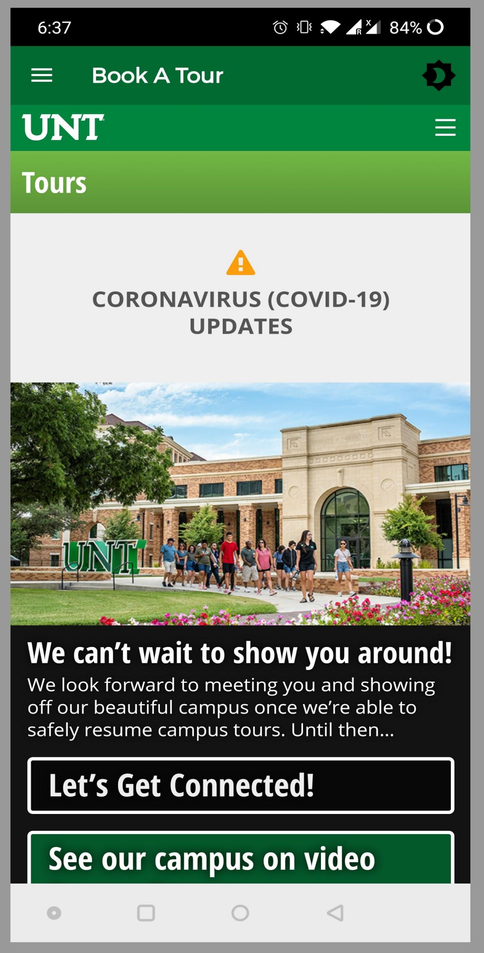
Screenshots

The following four screenshots show the main pages of the application that will be used. The first, far left, screenshot shows how users can navigate to different pages. The second is the primary page that displays the users name and points obtained. The third depicts the list of buildings that can be visited. And the fourth, far right, screenshot allows users to schedule tours through the Tour Center website.









Design

The design of the application is fairly simple, we have a total of 8 pages that can be viewed by a sliding navigation drawer on the left side of the screen for easy access. The majority of the application's information is stored internally for performance purposes. The buildings page is dynamically updated through AWS DynamoDB so an app updated isn't required every time a building is added, changed, or deleted from the list. We used the following technologies to create this application:

- **Android Studio**
- **AWS DynamoDB**
- **AWS Cognito**

Testing

Android Studio has a special feature that allows its users to test the functionality of their code through an emulator, or a personal Android device that is connected by USB. We did all production testing through this emulator and on personal Android devices to ensure that our product is 100% satisfactory.