Program: Location-Based Tour Guide
Team: 23
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Application Context:
Build a system and framework where an author can create tours for a set of locations. The system allows users to link audio and video content to each stop on a tour. Users use the app to follow the tour and to automatically view linked content when they arrive at a particular location on the tour.

Key Functionality:
- Locate your position using GPS
- Pop up a description of anything around you
- The verified author could also add descriptions
- The author could link several locations as a tour(some kind of trip guide)
- Users could follow the tour and experience what the author did and felt

Rough Architecture:
- Supports search functionality
- Lists most popular tours in a given city/state/country
- Includes google maps
- Pops up dialog, sound, description/pictures after clicking on/arriving at the locations
- Allows the user to rate and comment tours after finishing them
- Has a menu with more information about the team
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- Supports user registration and login
- Allows verified author to add description/tours
- Stores the description, images, and video
- Answers the query from the front end

Android System Components:
- Gps
- Firebase database
- Network Service
- Alarm
- User interface
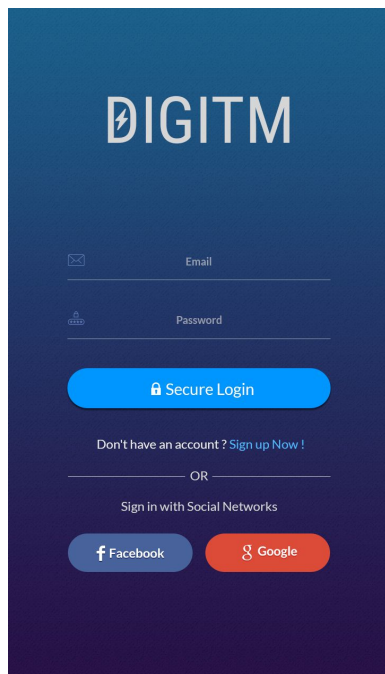
Application Front End

Google Maps Application Example:

❖ Replace "My Location Demo" with "Location-Based Tour Guide"

❖ Utilize google maps for our application - certain specific locations will be pinned by authorized authors

❖ Click the back arrow will pop up a menu with buttons that lead to different pages including:

➢ Contact Us
➢ Register for 'Author'
➢ About Us
➢ Instructions on Following Tours
➢ List of Highly-Rated Tours

Home and Map Button Functionality:

❖ A home button that acts as the menu with buttons leading to the links highlight above

❖ A map button that transitions users to the google maps to undergo the tour

◆ Information Tab - that will lead the user to information about our application

Verified/ Regular User Log In Example

❖ Only verified user can add tour location stops and we will use firebase to handle verifying log-in and registration

❖ Users can also utilize a log-in through Facebook and google which Firebase can also handle

❖ Replace 'DIGITM' with login title of our choosing

❖ Once they login into their account and depending on the clearance status of the user they will be available to different functionality

❖ We will have a database of all the users handled through Firebase