Project: Build an Application to Manage and Track USACE Volunteers

Background
USACE managers over 17,000 volunteers annually. We currently track volunteers by having volunteers report their hours directly to volunteer coordinators by filling out paper forms or personally tracking their volunteer hours. We then log that information into an excel spreadsheet to be used for reporting at the end of the fiscal year. The creation of the volunteer app will make inputting hours easier for volunteers, allow volunteer coordinators to easily see all hours entered, and allow individuals who are interested in volunteering to have a central location to view all opportunities and requirements. The app will serve as a one-stop-shop for all volunteer opportunities, information, and tracking available at USACE projects. Currently, the app is being piloted using the Swiftic App Builder. You can view the app in its current state by scanning the attached QR Code.

Project Description
Students working on this project will assist in the design and implementation of a Volunteer App that will allow volunteers to have one location to submit hours, find volunteer opportunities, review AHAs/trainings, learn about USACE's volunteer program, and give volunteer coordinators a central hub for all hour submissions. The current prototype was created using Swiftic but there are many limitations within Swiftic's app building capabilities. Students would be responsible for:

- Finding a better app building platform (app must be little to no cost)
- Help transfer the current data onto the new platform
- Create a secure database to hold PII behind a password, only volunteer coordinators have access to
- Create a monthly calendar tracking sheet to make monthly hour submissions easier (not a daily submission like current app has)
- Allow volunteer coordinators to pull data from submissions to be displayed as an excel or access spreadsheet
  - Create an option/function that allows volunteer coordinators to review/approve the hours volunteer's input.
- Bonus*** Create a function that allows volunteer coordinators to assign volunteers tasks through the volunteer app.

Outcome
- A working prototype of the USACE Volunteer Application, and demo for team

Skillset
- The ideal team will have experience with building a phone application that will be available on IOS and Google Play stores
- HTML, CSS, and Javascript (web development)
- Ability to create a secure database to hold PII behind a password
- The team will have experience with data visualization