Project Title: Development of a Green Labs Certification App

Client: Lauren Poole, Sustainability Office/Green Labs (Mines Admin. Faculty)

Preferred Team Size: 3-4 students

Work Location: None specified

NDA Required? No

Project Summary

The overall purpose of this project is to build an app for Green Labs Certification at Mines to make it easier for researchers in labs to evaluate their sustainability efforts.

A few years ago, Mines Sustainability Office developed a Green Labs Program that included Green Labs Certification. The current process involves a complex spreadsheet that evaluates a lab's sustainability practices based on energy, water, and waste reduction practices as well as purchasing of supplies, sharing of equipment, etc. More details are available here: https://www.mines.edu/sustainability/green-labs/green-labs-certification/

After developing the spreadsheet, we soon realized that it was a bit overwhelming for lab sustainability champions to use, especially when busy with research projects. As a result, we would like to develop an app that a lab manager or student intern could easily use to evaluate a lab's sustainability efforts during a walkthrough based on the spreadsheet we already have developed.

Students could use app development tools (see some below) or create the app themselves. It would need to be something a student intern could pickup and use regularly without too much training.

Deliverables: App development with friendly user experience OR just evaluating which of the following no-code apps would be best to use for this service.

1. Softr
2. Bubble
3. Zapier Interfaces
4. Glide
5. Bildr
6. Backendless
7. Flutterflow and Firebase
8. WeWeb and Xano

Source: Zapier Blog. "The 8 Best No Code App Builders for 2025."

Possible Resources: The "no code" apps listed above or a more complex tool. Several I've seen are:

- Retool – app development software for developers. Has free monthly service as well as subscription service. https://retool.com/
- Zoho Creator (uses AI for initial concept design): https://www.zoho.com/creator/index1.html

Students might have a better suggestion. I'm open to ideas.