



Runner++ Website

Taking night classes at CSUB over our time at CSUB, we noticed that some parts of campus are not well lit and can jeopardize the students' feeling of safety. After conducting a survey of random students that attend CSUB, we found that a substantial number of students, of all genders, would feel safer walking on campus during the day and night with another person with them. To remedy this, we have created Runner++ that gives students the option to choose a walking partner to walk with from one destination of the campus to another.

Runner++ Timeline

Fall 2021

1. Establish conceptual database
2. Begin front-end implementation for login and home pages
3. Research location system and update database accordingly

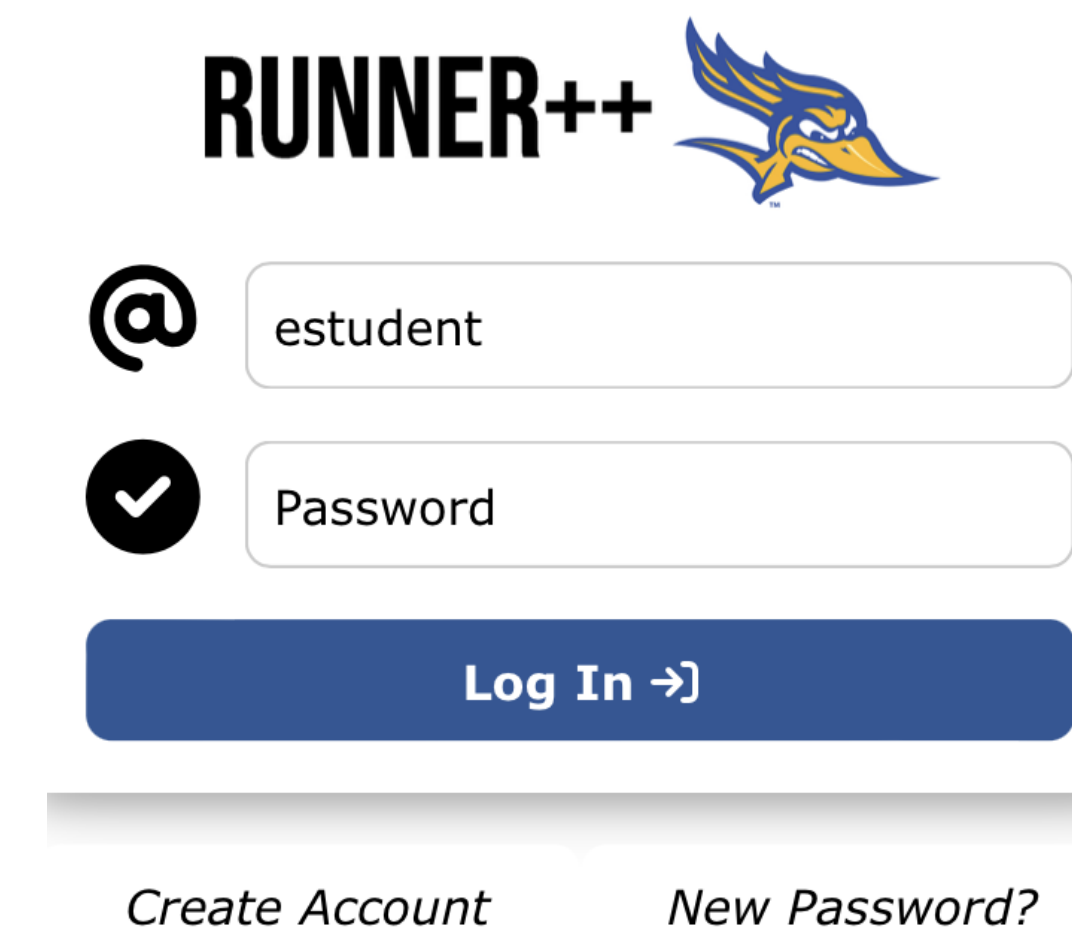
Spring 2022


1. Complete front-end for all user interface pages
2. Implement internal messaging system
3. Implement location services
4. Test overall functionality and update any front-end or back-end as needed

Challenges

- Connecting the database to the Runner++ web application for the internal messaging
- Simultaneously showing and updating both student and faculty positions in our location service

Login



Runner++ 

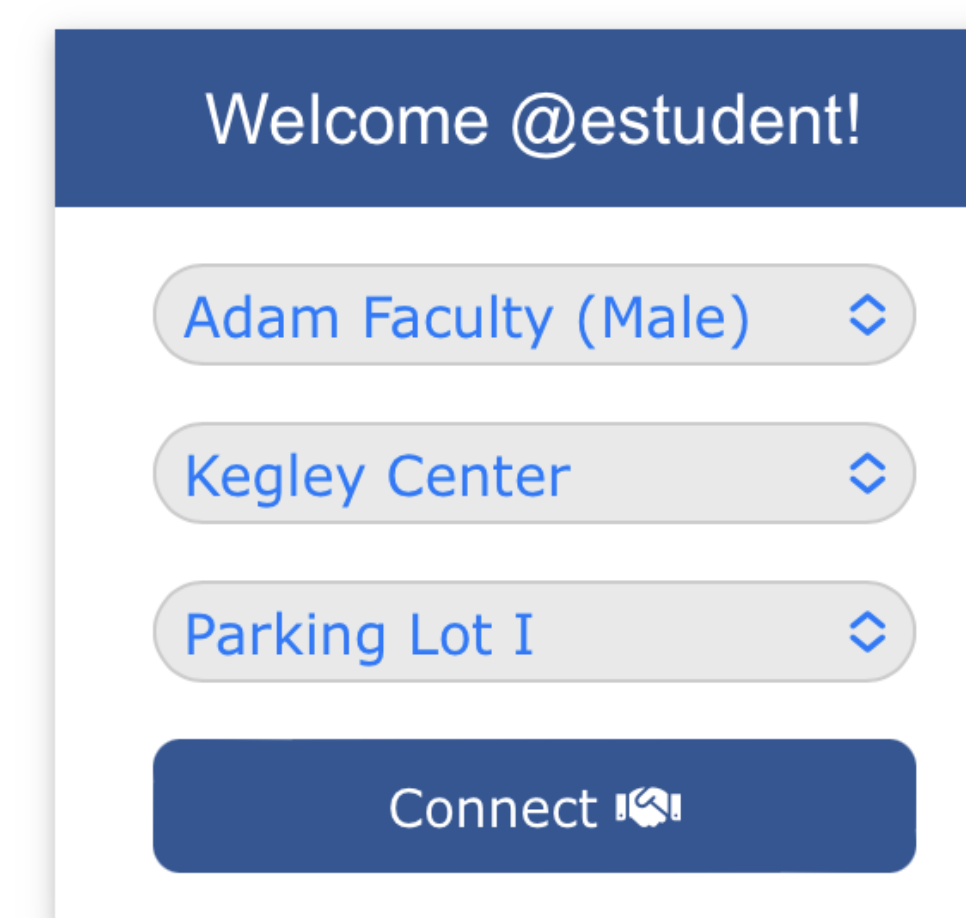
@ estudent

✓ Password

Log In →

[Create Account](#) [New Password?](#)

Student Connect



Welcome @estudent!

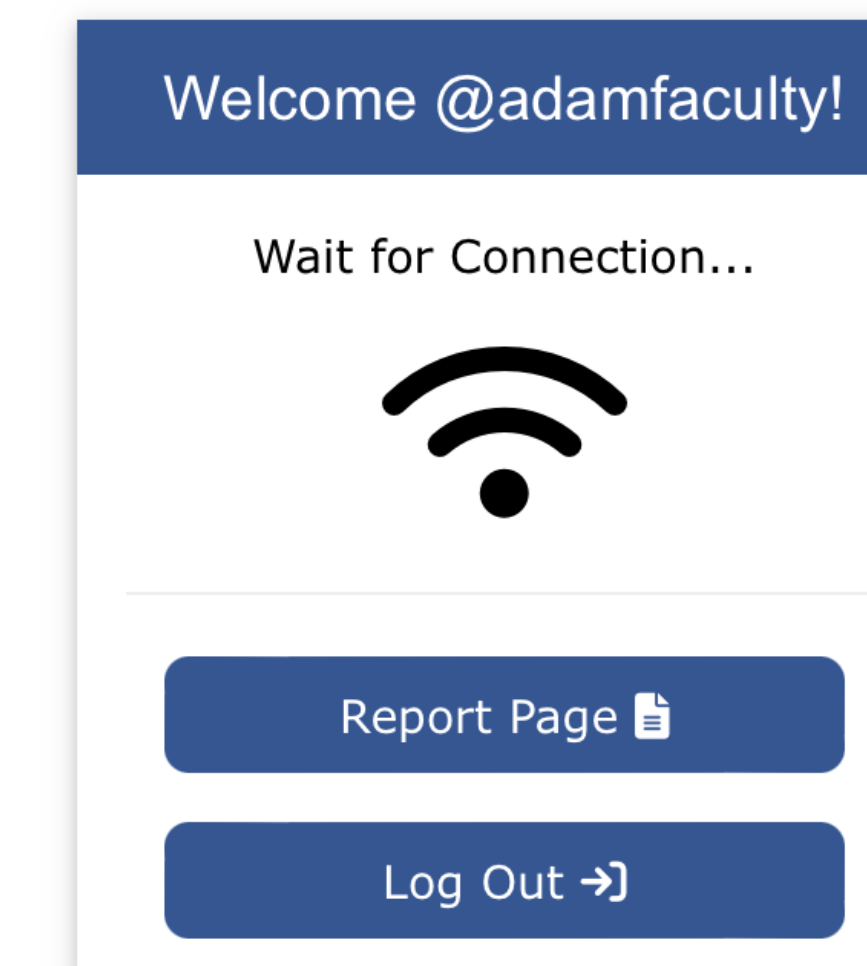
Adam Faculty (Male) ▾

Kegley Center ▾

Parking Lot I ▾


Connect 📍

Faculty Connect



Welcome @adamfaculty!

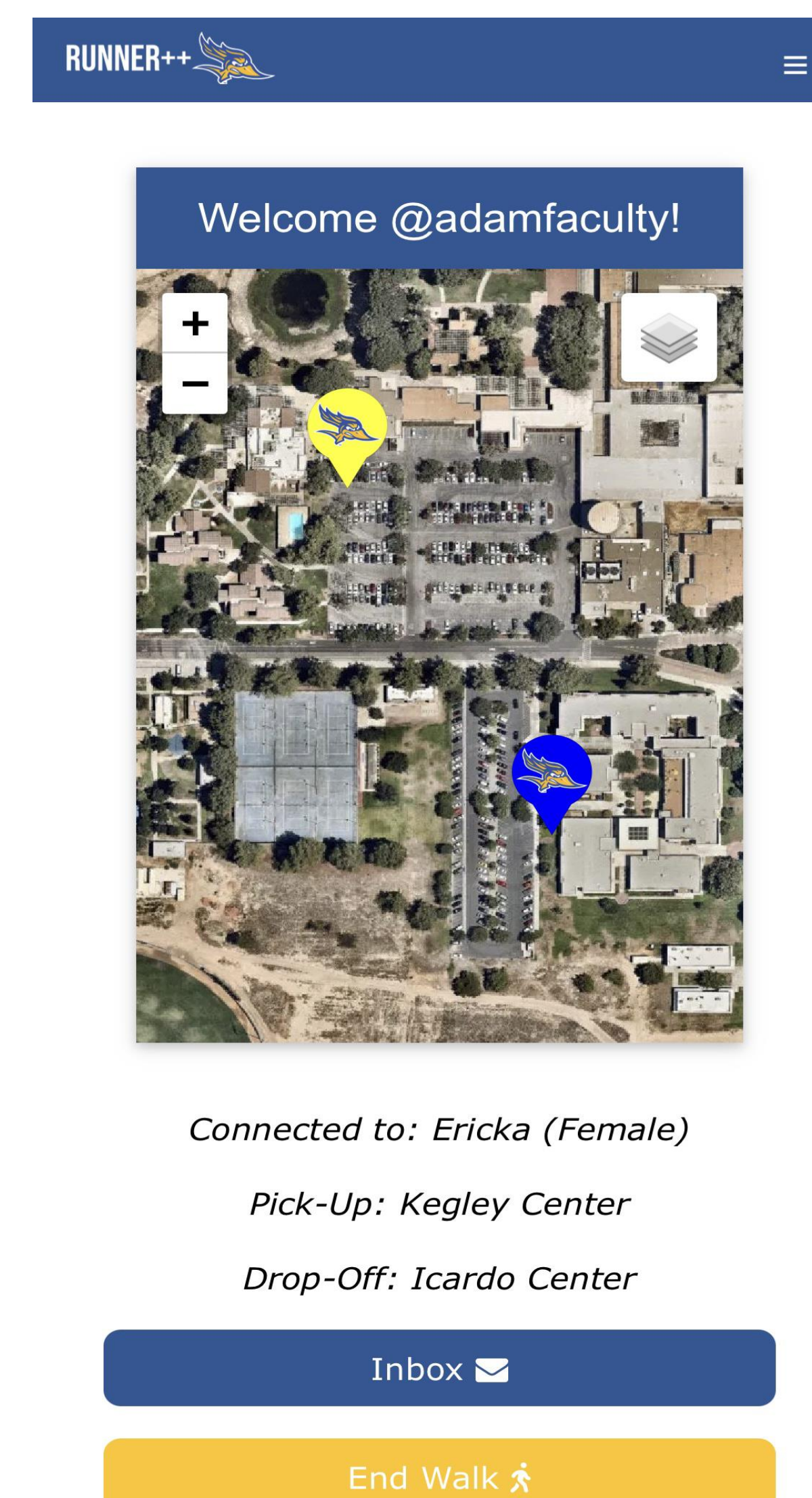
Wait for Connection...




Report Page 📄


Log Out →

Faculty Home



Runner++ 

Welcome @adamfaculty!



Connected to: Erica (Female)

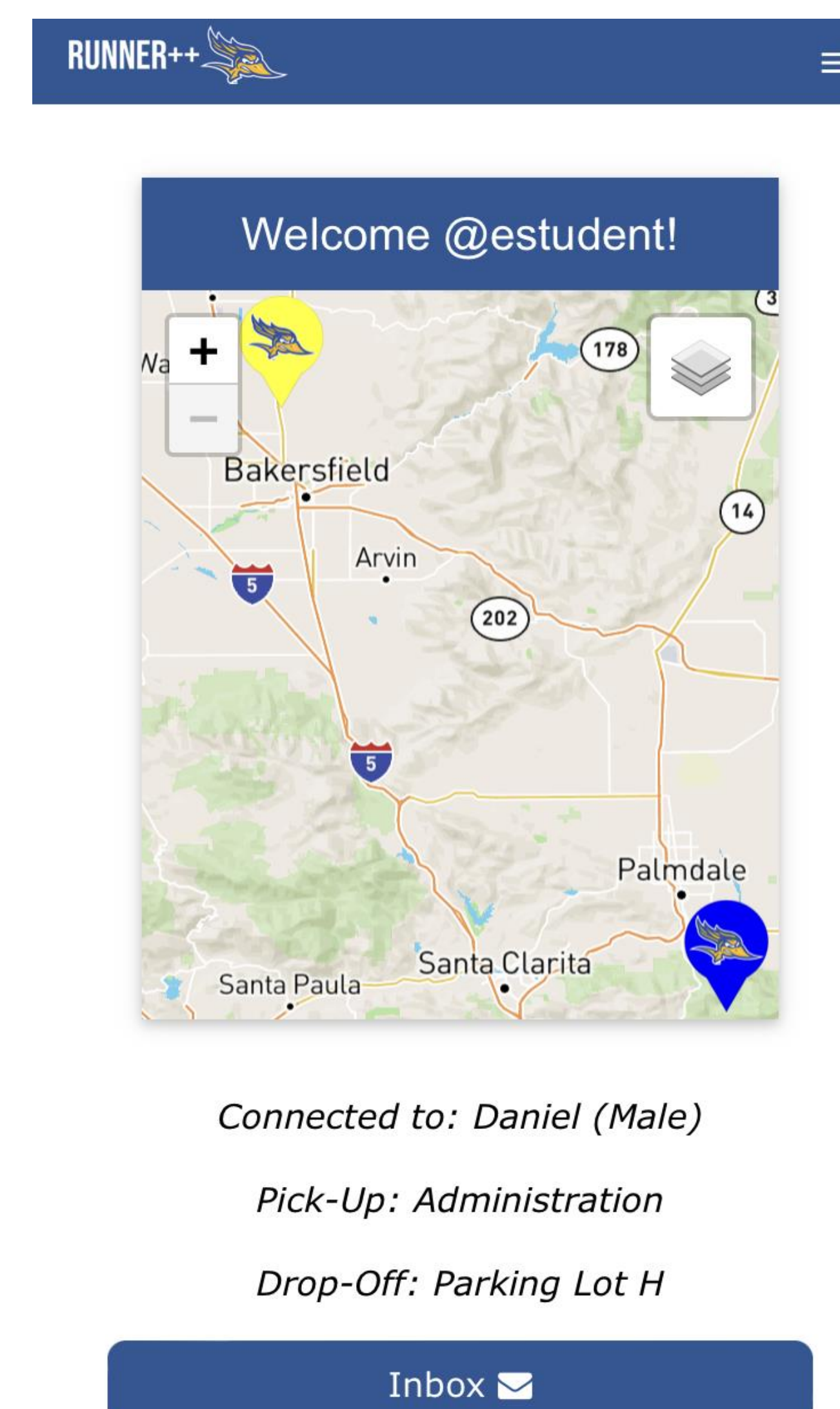
Pick-Up: Kegley Center


Drop-Off: Icardo Center

Inbox 📧


End Walk ↗

Student Home



Runner++ 

Welcome @estudent!



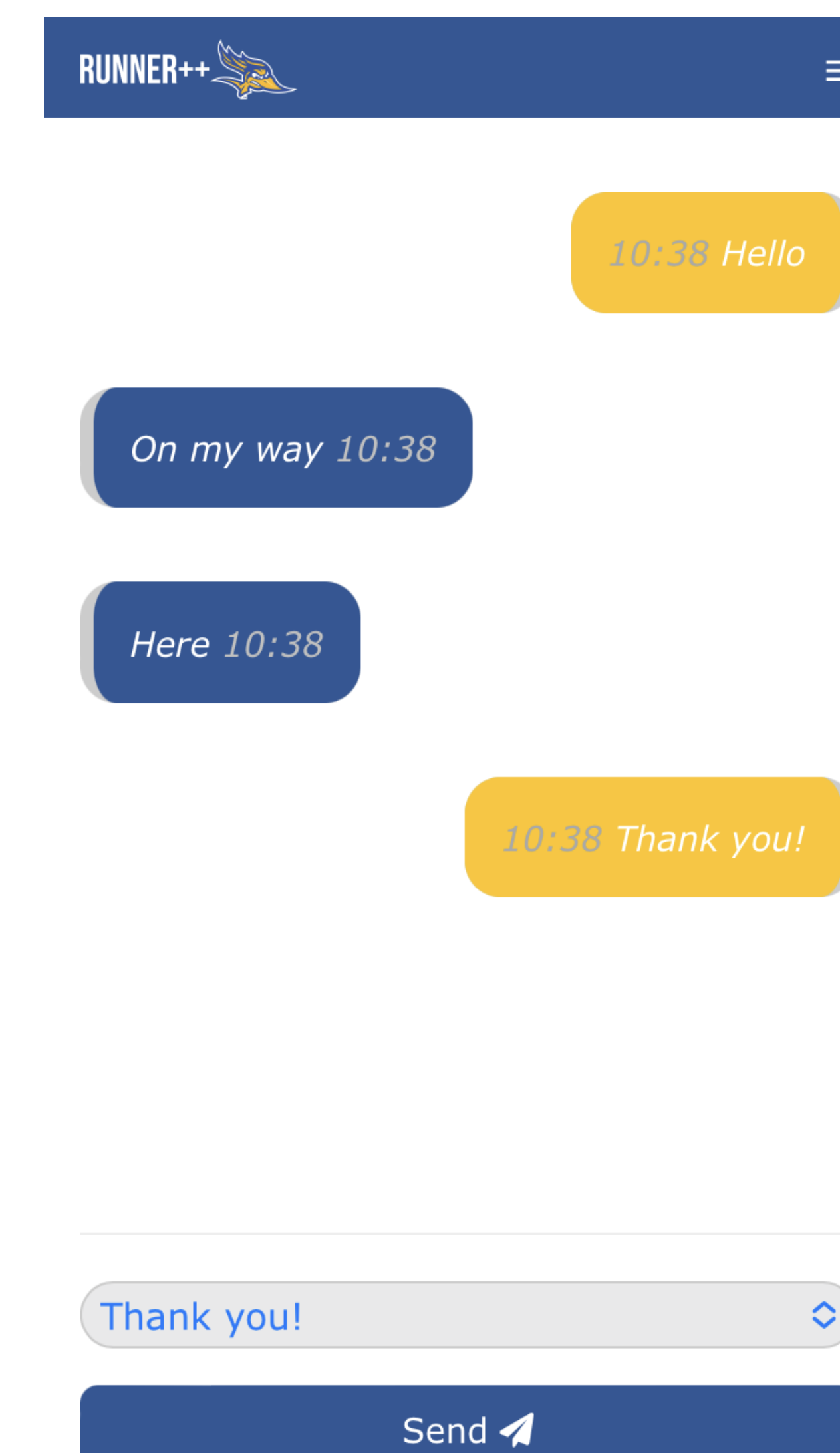
Connected to: Daniel (Male)


Pick-Up: Administration

Drop-Off: Parking Lot H

Inbox 📧

Student View of Messaging



Runner++ 

10:38 Hello

On my way 10:38

Here 10:38

10:38 Thank you!

Thank you! ▾

Send ↗

Security Measures

- Upon account creation, user passwords are encrypted and then stored in our database
- Users can grant or deny location services
- Map is bounded to only display CSUB grounds.
- User's locations will be deleted after a certain number of minutes from creation
- All messaging is deleted after the completion of each walk

Features

- User to user connection by choice of the student
- Secured login and password keeping
- Internal Messaging with predetermined messages for a quicker connect
 - With time stamped messages
- Geolocation
 - Street illustrated map & Satellite map
 - Users concurrently share location
- Detailed history of all walks for faculty view

GitHub Repository

<https://github.com/Dvinti/Runnerpp>

Web Address

<https://artemis.cs.csub.edu/~runnerpp/project/indexV2.php>