

# COUNCIL CALENDAR

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**SUMMER APPATHON**

# OVERVIEW

- **App Name:** Council Calendar
- **App Description:** Allows student councils to schedule events, display event information, and keep track of members' attendance.
- **Track:** Youth Individual
- **Category:** Civic engagement & justice

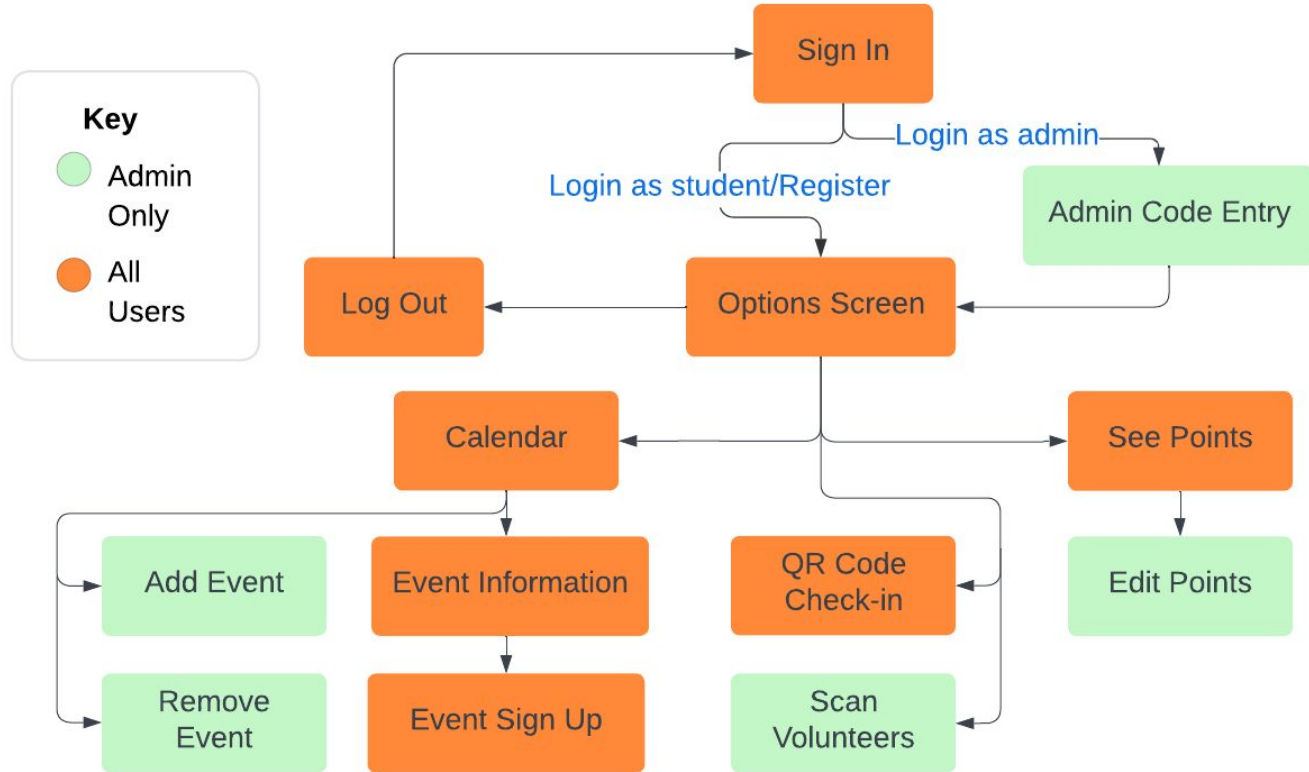


# THEME

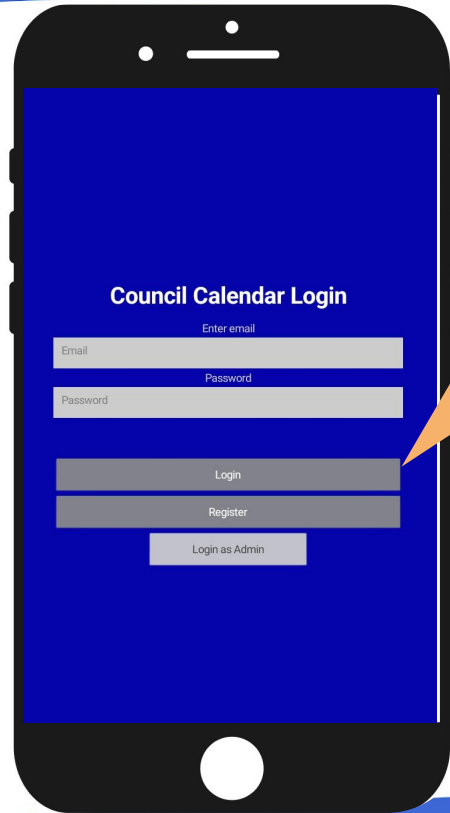
Student councils form a bridge between the local community and students by organizing community-wide activities. My high school student council lacked a good way to schedule events and keep track of who was actively participating. I wanted to create an app that made it easier to manage different service activities to encourage more student body engagement in the community. The primary goal of my app was to increase the amount and type of information available so students could be more informed about community events.



# DESIGN FLOWCHART

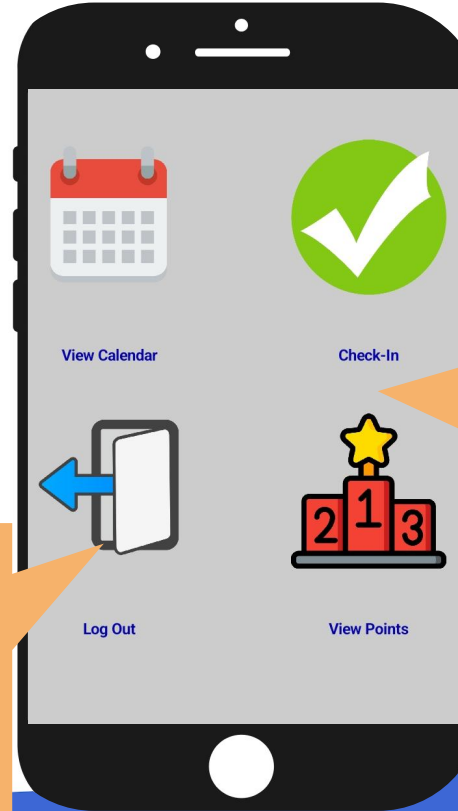


# INSTRUCTIONS - STUDENT



Step 1: Enter email and a password to login or register

Step 3: If you click on "Logout" picture, returns to sign-in screen



Step 2: Click on the picture to change screens (student view)



# INSTRUCTIONS - STUDENT

The following slides all originate from Step 2. They show the app as seen by a student without admin privileges.

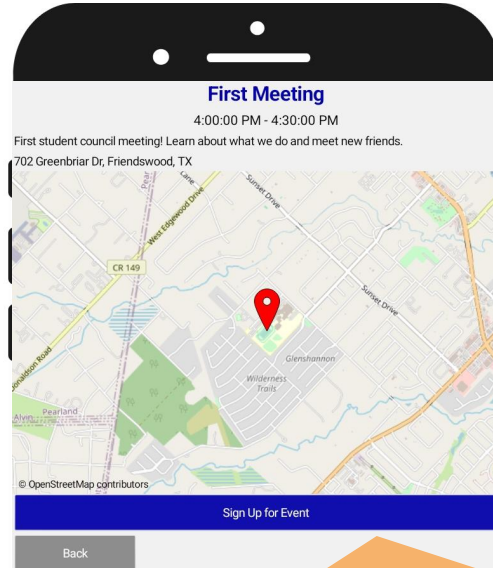
The title will be the image that was clicked on that led to the next step. Skip to slide 9 to see admin app design.



# INSTRUCTIONS - CALENDAR



Step 4: The calendar shows the dates with events by turning the button green. Use the date picker to choose the date and see any basic event information



Step 5: After clicking on "Learn More" button, this screen will show you extra information about the event (time, location, in depth description) and will show if you are already signed up



Step 6: After clicking on "sign up" button, this screen shows everyone who has already signed up. If you click on "confirm" button, an email will be sent and you will be added to the participants list

# INSTRUCTIONS - CHECK IN

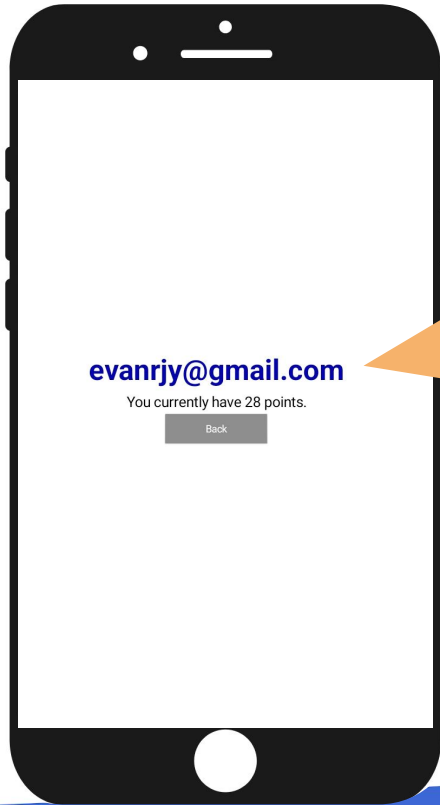


Step 7: This screen displays a QR code that contains information about your username. This is used to sign in with an admin at an event so you can confirm your attendance and gain points.





# INSTRUCTIONS - VIEW POINTS



Step 8: This screen displays the number of points you currently have. (Based on the account currently signed in to)

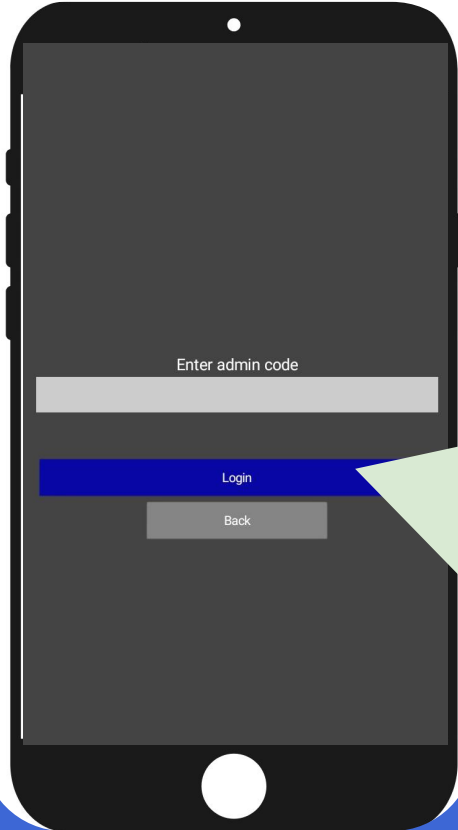


# INSTRUCTIONS - ADMIN

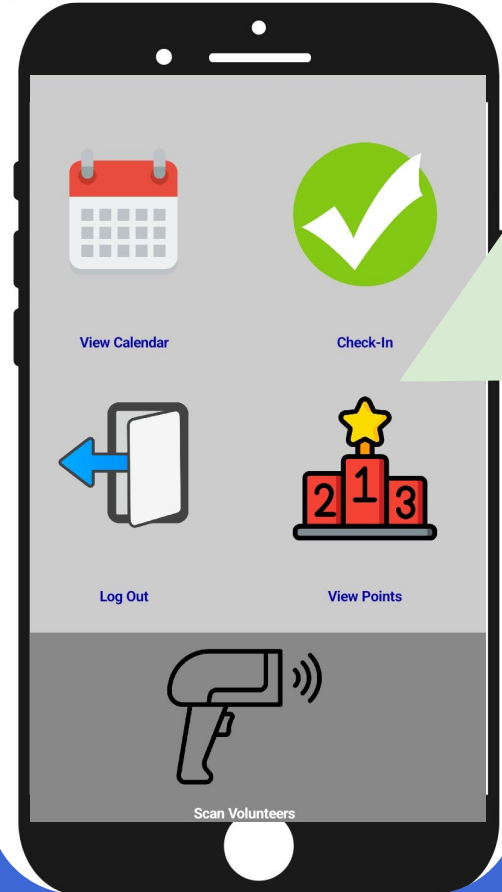
These slides show the app with admin privileges. They start from step 1 if you clicked on “Sign in as admin” button. Admins can see everything that students can, they just have increased permissions/features. The title will be the image or button that was clicked on to lead to the next step.



# INSTRUCTIONS - ADMIN



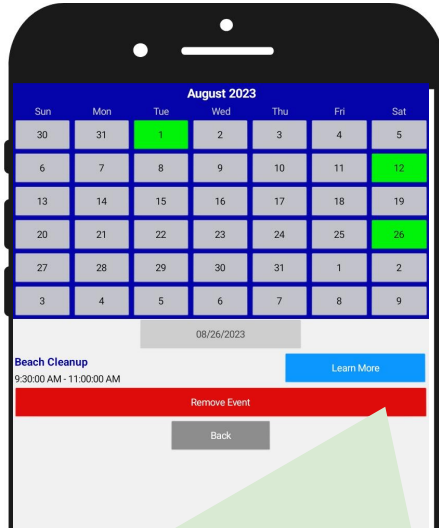
Step 2: If you clicked the “Login as Admin” button, enter the admin code to gain privileges



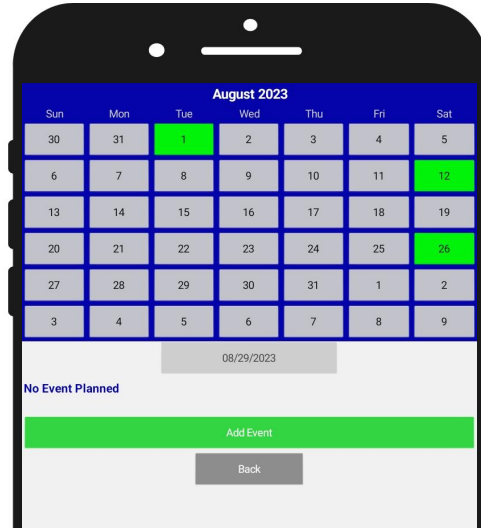
Step 3: Click on the picture to change screens (admin view). The next slides all originate from this screen.



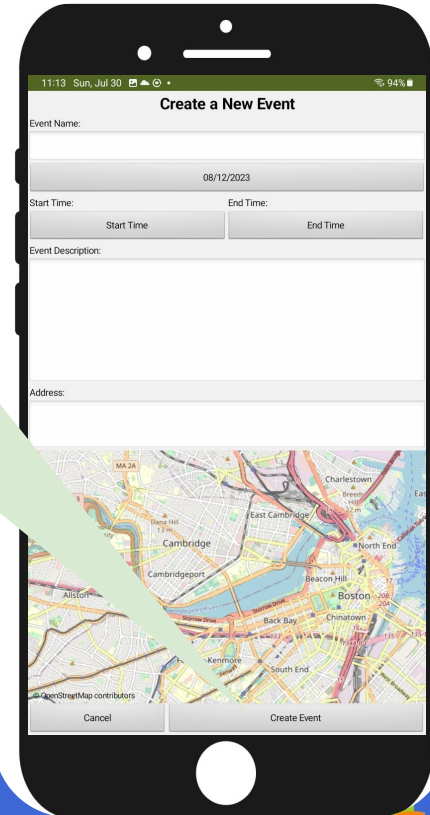
# INSTRUCTIONS - CALENDAR



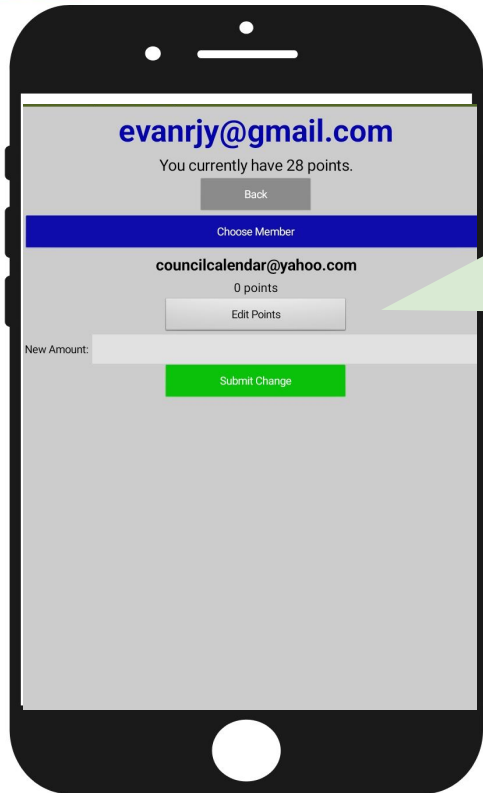
Step 4: Shows event calendar. Includes add and remove buttons. “Remove” button removes the current event selected and sends an email to everyone who signed up for the event. “Add” button leads to new screen.



Step 5: If “Add event” button is clicked, this screen allows you to fill out all the necessary information to create a new event (date, time, description, address). Clicking on “Create Event” button saves all the information.



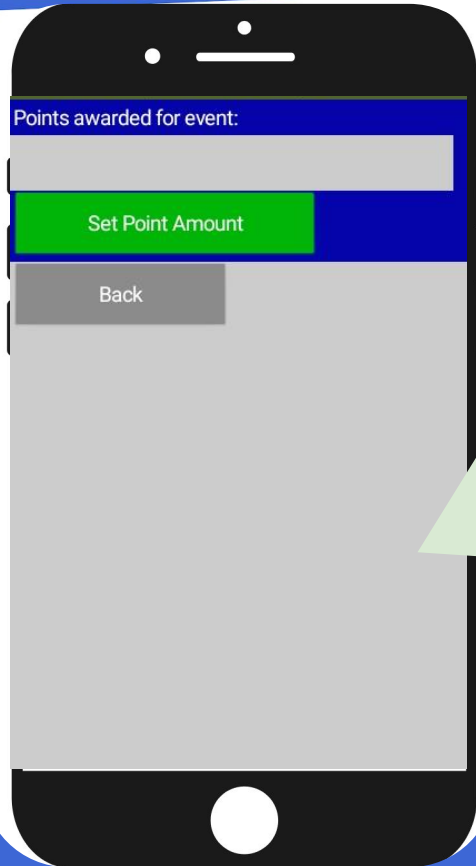
# INSTRUCTIONS - VIEW POINTS



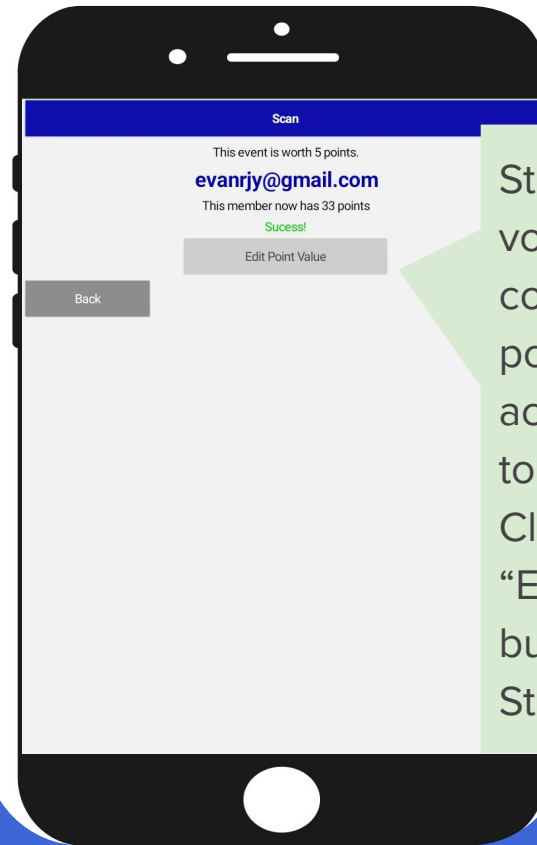
Step 6: This screen displays the number of points you currently have. You can also choose a member from the dropdown and view their points. If you click on “Edit Points” button, you can manually set a new amount of points for that member.



# INSTRUCTIONS - SCAN VOLUNTEERS



Step 7: Edit the amount of points the event is worth (on the date of the event when you are checking volunteers in)



Step 8: Scan volunteers' QR codes and add points to their account for going to the event. Clicking on the "Edit Point Value" button returns to Step 7.



# DESIGN GOAL

The aim of this app is to provide a resource for student councils in schools to use in order to increase student participation in meetings, service events, and other community activities. It should also ease the burden of keeping member attendance (student council points).



# FEATURES

- Calendar that clearly displays the dates of events (color-coded)
- Firebase DB to keep track of event information
- Point storage to keep track of attendance
- QR code scanner and generator to automatically add points (keeping track of attendance to events) and automatically send “thank you” emails
- Map to show address and location of events
- Email system to remind people of events they signed up for
- Email system to notify people if an event has been cancelled
- Differentiation between admin and student privileges within the app
  - Admins can: add events, remove events, modify everyone’s points, and check people in at events





# TECHNOLOGIES

- Android OS 13
- MIT App Inventor
- FirebaseDB
- TinyDB
- QR code generator API
- QR code scanner
- Map API
- Smtplib Email Extension



Firestore



# LIMITATIONS

Some limitations include:

- There is a limit of one event per day
- Only one student council organization can use the app
- An internet connection is required to generate a QR code



# CONCLUSION

Student councils exist in every high school around the country and one of their responsibilities is to carry out service activities. In many cases, though, there is not a designated app to keep track of service events and it can be difficult to coordinate times, locations, dates, etc. Additionally, there is no automated system to keep track of attendance and check if members of student councils are in good standing (they are in good standing if they have participated in a certain number of community service projects).

My app solves these problems by linking a calendar with all the necessary service activity information, all laid out in a clear format so you can easily plan for events ahead of time. In order to keep track of attendance, points are added whenever a student checks in with an admin at an activity, thus streamlining the usual process of manually updating a spreadsheet. I believe these features can lead to more community service and engagement among school children.



# ACKNOWLEDGEMENTS

- Ethan Yang: Helped bug test app
- Jing He: Helped film video

