# Q1 Description of your final project idea:

Our project will be a group hangout creator. Through this site users will be able to plan out a group hangout from start to finish, including selecting meeting activities and plugging their availability. Users within the session can then vote on the activities and select the one they plan to do for the hangout.
Once the activity has been decided on, they can pick locations and vote together as a group. With this information the system will curate an itinerary where the maximum number of people are able to attend the hangout, and schedule it into the google calendar of the users with the date, time and location for the hangout.

# Q2 Describe what functionality will only be available to logged-in users:

Once a user is logged in they will be able to create sessions with their friends where they can plan out their hangout. We plan to have a different interface for the session creator and the joining members. The creator of the session can create a session/group and invite other members to join by adding their email ids. Users can only join a session if they have an account, if they do not have one, they will be prompted to make one before being able to join the session.

# Q3 List and describe at least 4 forms:

Signup form - allows user to create an account using their name, username, and email address
Login form - allow users to login
Account update form - allow users to update their name, username, and email address
Activities form - users in a session will input what activities they wish to partake in for their hangout.
Availability form - users will input their availability
Location form - users will plug in locations for the chosen activity

# Q4 List and describe your routes/blueprints (don't need to list all routes/blueprints you may have–just enough for the requirement):

- Home page: /
- Sign Up page: /signup
- Login page: /login

@login_required:

- Update account: /account
- Create a new session: /session/create
- View session dashboard: /session/<id>

- Session History: /session-history
- Members availability page: /session/<id>/availability
- Activity voting page: /session/<id>/activities
- Select location page: /session/<id>/locations
- View final schedule: /session/<id>/schedule

# Q5 Describe what will be stored/retrieved from MongoDB:

- Users - store a list of users
- Past sessions - we will save all the sessions that the user has been apart of ( users will be able to view, but not edit, their past sessions)
- Users in the session - Save which users are apart of which session using session id
- Activities - the user inputted activities for each session
- Availability - will save each user's availability within the given session
- Location - will save the user inputted locations in the session
- Final Schedule - will save the final activity, location, and time of the hangout

# Q6 Describe what Python package or API you will use and how it will affect the user experience:

- Google Calendar API
- Google-auth-oauthlib for Google Account authorization
- Flask
- Flask-Login
- Flask-WTForms
- https://pypi.org/project/meeting-scheduler/ - Will be used to figure out time when most people are available based on their availability
- https://developers.google.com/workspace/calendar/api/v3/reference/freebusy/query. We can get users to connect with their Google calendars and then find busy times across all members and find a time that works for everyone.
- PyMongo, Flask-PyMongo for MongoDB

Maybe(s):

- We could use FullCalendar.js for a sleek calendar UI