(put this on our group’s wiki page)

Project Proposal Format

1. Team picture
2. Team competency
3. Project
   1. Name
   2. Problem being addressed
   3. Description
      1. First write one short paragraph to describe what PROBLEM your project will solve. What will it do?
      2. Next write another paragraph on how your project will work (what pieces make up your project). This is known as concept of operations
   4. Language/Platform/Libraries (list these as best you can) example: Android/Springboot + any web APIs
   5. Large/Complex
      1. Make a list briefly describing what makes this project large/complex (enough work for four people for an entire semester). This will include things that are new to your team members (for example, you may never have worked on mobile development)

Complexity examples

* Client side
  + Screen #s and complexity
  + Local processing
  + Networking with server
  + Connecting to apis
  + Local database use
  + Local devices use
* Use of new languages
* Use of new frameworks
* Turn-based, realtime, two-way, peer-peer?
* Server side
  + Routing
  + Server-side processing
  + Database access
* Database
  + Tables and relationships
* Web/mobile/desktop

Project Proposal Format

1. Prior experience:
   1. Catherine: Prior experience with Java, C, and C++ through earlier CS courses (CS 311 and CS 327). One summer internship, 5th semester at Iowa State.
   2. Julie: Prior experience with Java, C, and C== through earlier CS courses (227, 228, 311 and 327). One summer internship, 5th semester at ISU
   3. YJ: Prior experience with Java, C, C++ through earlier CS courses (327 and 311). Minimal experience with HTML and CSS. 5th Semester at Iowa State. Creating UI designs with Sketch.
   4. Cameron: I have taken COMS 227, 228, and 311 so most formal coding education is in Java. Within work and personal projects I've worked with the following technologies/languages (in order of comfort): VBScript, node.js, git, SQL, XML, HTML, and CSS. Classified as a senior and 3rd semester at ISU.

1. Project
   1. Name: HIVE
   2. Problem being addressed: Allows people to *easily* make connections outside of their existing friend group based on their physical location.
   3. Description
      1. Popular social media apps make it easy to interact with your existing friend groups. Dating apps make it easy to find new romantic partners in your area. HIVE aims to combine the functionality of these two concepts by providing an easy way to make friends with people in your area. Users will be able to create private “hives” for pre-existing connections or join and create public hives. Public hives will be open to any HIVE user in the area and have primary interests, so that users can connect with like-minded people.
      2. HIVE will operate like many other microblogging social media networks (i.e., Twitter, Instagram, Reddit) in the way that the application will allow users to create multimedia posts (messages, photos, maybe videos). What makes HIVE unique is that registered users can join or create “hives” with their social circles and send content to those hives they might find mutually interesting.
   4. Language/Platform/Libraries: Android/Springboot, Firebase or MySQL, Google Maps SDK
   5. Large/Complex
      1. All members have little to no experience with mobile development.
      2. Many features to implement such as: creating/storing/updating/displaying HIVEs, user profiles, user posts (text, photos, and videos), post likes, post comments, and many more features found across most social media apps.
      3. Heavily integrated with the geo-location of it’s users which we have no prior experience with (Maps SDK).