Cosmetology; sister

Or

Aggieland; GIS event participants

While I have not officially picked a project idea, the two ideas below are the best I have so far.

1. A GIS Solution for a Cosmetologist   
     
   **Goal**: Provide my customer, the cosmetologist, with a location-aware tool (map) which could be used for putting together a portfolio, organizing customer contact information, recording work(-ed) locations, or authenticating her customer’s manifestation.   
     
   **Data:** Use the GPS coordinate data of pictures taken by her cell phone or camera (probably no location meta data?) of clients she has done make up for   
   I think an obstacle to this customer request will probably be that normal pictures taken and saved into a cell phone gallery might not always have the GPS location metadata attached if the appropriate settings were not turned on to record it in the first place. However, many apps today do. I do not want to, and was not asked by my customer, create an entire app for the picture collection with GPS location permissions. If I were to choose this project, my customer would need to understand that she will have to do the “data collection” needed. I would ask her to make an album in any of her social media accounts which she can upload pictures to from her cell phone. She would also need to make sure every time she takes and uploads a picture that the app is documenting her location. I think Twitter Instagram and Flickr automatically do this, however facebook app allows you to have GPS location turned on or off. She would need to double check every time a picture is taken which she wants to use that the location is documented. There also might be a difference in when the app documents the location of the phone; either while taking the picture or at the time of picture upload/send to the social media app.   
     
   **Deliverables**: My sister is very computer-aware, and surprisingly has a large enough interest in my occupation that she has a version of ArcGIS on her computer. I would like to have a layered map with all associated location and customer data for each picture and make it easily updatable. I would compile all of the customer names, numbers, etc. information she gives me for each one and set up relational databases to organize picture labels and details. Since the pictures will have meta data about the time it was taken, the final map in ArcMap could also be easily sorted and filtered by many different attributes. This would make it very easy for my sister to see which time periods are more or less busy for her than others, which areas of town her customers are reaching out to her from. If she has general or “Event” categories for which the make up was done, she could view the map by specific topics such as, casual make up VS. Wedding VS. photo-shoot etc.
2. Aggieland GIS: ? Earth Day ?  
   So, I know I can’t use this project more than once. I am almost positive I plan on working with Yolanda for the Web GIS project. However, the Aggieland GIS app has a lot of web-based components which may lead me to use it for my WEBGIS, either by myself or possibly working with will, project.   
   Whether or not I do use it in the web GIS class, I was thinking about picturing the future users of Aggieland GIS app (Will was interested in working together when it was formerly Aggieland Sustainability) and what their needs would be. I know you are the “customer for any and all approvals” since you are paying me to develop it, but since I need a GIS-related project to practice data handling I was thinking about what I can do through course work to make this app EVEN BETTER. The basic functions we have designed and picture submissions are going to be the main focus. But, I think it could be a great feature to add a map with helpful data relating to any and all things event participants or campus guests might need to see on a map.  
     
   **Goal:** I am picturing a map with layers of helpful information which can be turned on and off my preference, as well as filtered sorted or multi-certain layers//attributes chosen. The layers could be grouped into topics which imply the data content. Such as, “Where to park” “Pay for Parking” “Parking on campus” for a layer where highlighted parking lots, as opposed to lot number or V labels, could designate the lots where visitor parking is accommodated. Maybe a layer called “Regions” or “Campus Nicknames” for the general campus regions or building titles which are not normally written on a map (northgate, West campus, the Commons or “Dorms” to label on-campus housing). Maybe, I could even incorporate some sort of directions/routing help with pre-determined marker locations for start and end points based on the prime locations for campus events and the parking lots to and from guests could using and then getting lost. It could be like google maps (walking route instead of in a car) and navigate them thru the route live or to make it easier it could be two pre-determined drop down lists, one for start location name and one for end location name, with location names that are widely used to describe places on campus. Based on which spot they put in each the start and end choice, the map could add a polyline along a route which would be easy for someone new to campus to follow.   
     
   **Data**: Base map could be a google map zoomed in on College Station – the base map used for TAMU Mobile app would also work very well since campus details have already started to be added. The data associated with parking lots (cost/hr, times open to visitor parking) main event buildings or locations, and the GPS locations for things worth marking or in need of marking to explain more about that object on campus would need to be compiled into tables and point data (markers). I would need to design each layer so that it is easy to use, helps the visitor to better navigate or identify where they are, and explicitly evident what the layer is trying to help with.   
     
   **Deliverables**: Added tab/link, just as we did last night for the Professors, Participants, and Events, on the Geoservices website which I can also use or call to from the mobile phone app. The main use of it would be mostly when using a cell phone. Then in the Aggieland GIS app, click the map campus button or option from menu to take you to view the map. I would like 1. To be able to turn on and off layers, and 2. To have start and end markers that you can choose/change, to have them pop up on the map, and then highlight a route to follow when they click “Route”.