

CS411 Team Assignment 1 - Proposal

We normally don't start a project without some idea of what it is that we want to accomplish. Working with your team, come up with two ideas for a web application that your team will plan and build this semester. Your team will present your primary idea in class in Week 4 for approval. If the primary idea is rejected, your team may present the secondary idea.

Deliverables:

1. A link to the team's GitHub repo that includes a written overview of both of your team's ideas, one paragraph per idea. (I just need one paper per team.) Please create a 'docs' folder in your repo that will hold your team's assignments.
2. Team members will describe their idea to the class in Week 4.

Here are a few high-level requirements for your application:

1. **It must utilize a database.** A simple way to meet this requirement is to require a user to store profile information in the database. You'll also be using it as a cache.
2. **It must correlate at least two publicly available data sets via API from the Internet.** Examples might be weather/climate data from NOAA, crime statistics from the FBI, and so on. A great place to get started is https://apigee.com/providers?apig_cc=1, which is a repository of datasets and APIs, and <https://www.programmableweb.com> (my favorite). Another good place to search for data is <http://data.gov>. The City of Boston also has data available at data.cityofboston.gov. Your application must correlate these data sets in some way; for example, pull a user's playlist from Spotify and correlate it with a feed that has concert dates to alert the user of bands that they like that are playing nearby. Use of the Google Maps or Geolocation service does not count toward your two APIs.
3. **It must use third-party authentication**, for example logging in with Twitter or Facebook using OAuth.

Additional constraints may be placed on the project as the semester progresses. At this point in the project you should not be thinking much of the technical aspects of the site...this part of the project is a business function. The technical design will come later.

Just think about the user benefits for now, not the technical implementation. That being said, browsing through available APIs can be a good way to spark your imagination. A Google search for 'databases with public API' will give you a nice list in addition to those listed above.

One member of your group should submit your repo link on Blackboard by the due date and time.