**Team 9**
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**CS 411 – Section A2**
**Professor Donham**

## Proposal # 1

A web based application that allows users to sign in with their Google, Apple, Yahoo, or other account (based on the Cronofy API) and then effectively analyze when the user has free time and suggests what to do with it, such as trying out a restaurant or going to an event. The user may also choose to sign in with Facebook in order to allow the application to see the current and nearby events the user and his/her friends are interested in or planning on attending. Based on the amount of free time, the application will be able to recommend different things to try out during that free time. For example, with only an hour of free time the application may recommend a cool restaurant nearby as opposed to a few free hours of free time the application may recommend a popular nearby movie or museum to check out. The web app uses the EventBrite, Live Nation, Yelp, Google Maps, Facebook Events, Fandango, Acehopper API. Besides showing the recommendations on the site, the user has an option to notify by texting (Twilio API) or emailing them (Send Grid API) of new events. The user also can select how often they want to be notified. The user can also use the application to search for something specific in their free time, and the app will populate all related events happening at the moment near the user's location. In terms of the database component of the application, we will collect basic user information including phone, email, and password, as well as their personal preferences, past attended events, and events they may be interested in attending to populate the best options customized to the user.

## Proposal # 2

A web application that utilizes the Twitter API to identify top trends that are related to a user's interest and presents informative data, videos and news related to that subject. The Twitter API will allow us find the current top trends in each category the app will feature. The main categories our app will feature include: news, sports, music, entertainment, lifestyle, technology and science, arts and culture, government and politics, gaming, and nonprofits. These features will comprise our app's distinct states, and once the user decides what category they want to further explore, our application will populate all the current news, video, and data related to the top trends for that category. To pull up the relevant information and news for these trends, we will integrate different APIs including those from the New York Times, ESPN, USA Today, NPR, Reuters Spotlight, Guardian, The Aol On Network, YouTube, and other APIs if necessary to aggregate more information. This will allow the user to get detailed research on all the trending topics. If the user likes an article they are reading, they will then be able to share the link on either Facebook, Twitter, or LinkedIn through their APIs. Users will also be given the privilege to search for topics, and the app will still pull up the relevant data. In terms of a database, we will allow users to pick what categories they care most about and can create a news feed for that user. For example, a user may want to get news on sports and politics, and the app will pull all the necessary data based on trending topics for that user. All this user information will be stored in our database to allow for the most useful functionality of the application.