

## CS122 Project Proposal

### Title: Take Me Away!

#### Objectives

We want to develop a website that suggests customizable and affordable trip itineraries. Suggestions will be created based on reviews of popular destinations, scattered across the internet, and based on users' own preferences.

The website will provide a daily schedule for the trip, with suggestions near the user's main points of interest, as well as additional spots if the user wants to deviate from the original itinerary. Finally, a map with the selected points of interest will be provided to help during the trip

#### Innovative tools and databases

1. Tools
  - NLTK Text Classification (Python library for sentiment analysis)
  - Beautiful Soup
2. Databases
  - Yelp API
  - Foursquare API
  - Trip Advisor API
  - Google Maps API
3. Websites for scrapping
  - Timeout

#### Deliverables

1. **Week 3 (Feb 9-12):** Database of venues, reviews, and events
2. **Week 5 (Feb 23-26):** Mapping function and natural language processing matching
3. **March 15:** Complete webpage

	Weeks						
	1	2	3	4	5	6	7
Connect to APIs	■						
Store and process data through SQL	■						
Select attractions given user restrictions		■	■				
Scrape reviews		■	■				
Natural language processing of reviews			■	■			
Scrape events		■	■				
Map schedule					■	■	
Wrap it all together					■	■	■
Create front end						■	■