Week 9 Status Report for Nightsky Web Application

(CS 275 Section 001)

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1. Project Status

The Nightsky project is coming together but has hit one major bump in the road. The biggest problem we ran into when developing this web application is finding out that the Predict the Sky API has been deprecated for a while now. It was not returning any data when we made GET/POST requests to the API link. When we scoured through stack overflow, we found a thread where it stated that the API has been down for a few years.

We found another API provided by the United States Naval Observatory (USNO). The USNO API provides two main types of information; solar/lunar eclipses, and when Mercury and Venus will be visible at night. This is significantly less information than what we were originally building our application around. If the API proves difficult to use, then we will be using a website linked [here](#) to fill the database manually with space events.

2. Project Schedule

Our development plan does not change much. We may get rid of the feature of allowing the user to input a zipcode to figure out longitude and latitude coordinates. Using a user's geolocation has these coordinates built in which is very convenient to send over to the USNO API. During week 10, we are planning to mainly load the database with the information from the API and then display it on the webpage. The weekend before week 11 will be for finishing touches and debugging.

3. Database Layout

The database we are using will have different tables for each space event type (Mercury, Venus,

Solar Eclipse, Lunar Eclipse). Each table will have the following layout:

Field	Type	Key
id	int (AUTO INCREMENT)	PRIMARY
date	date	

There are only two fields in each table, a unique ID that increments automatically for each new

query and the date of the event.

4. Gantt Chart

See next page.

Tasks	Member Responsible	Start Date (MM/DD/YY)	Projected End Date (MM/DD/YY)	Progress (%)
Setup User Interface of Nightsky Webpage				
HTML File	Brandon	2/27/2017	3/5/2017	90
CSS File	Brandon	2/27/2017	3/5/2017	90
Progress Bar:				
Develop node.js server				
Get node.js server to communicate with client	Brandon	3/6/2017	3/12/2017	75
~~Get node.js server to communicate with Predict the Sky API~~	Jerry	3/13/2017	3/19/2017	CANCELLED
Get node.js server to communicate with USNO API	Jerry	3/13/2017	3/19/2017	
Get node.js server to communicate with MySQL Database	Ryan	3/13/2017	3/19/2017	70
Progress Bar:				
Develop Client-Side JavaScript				
Find longitude and latitude coordinates based on given input	Jerry	3/6/2017	3/12/2017	60
Find longitude and latitude coordinates based on geolocation	Jerry	3/6/2017	3/12/2017	80
AJAX Call to node.js server sending long. And lat. Coordinates	Jerry	3/13/2017	3/19/2017	0
Progress Bar:				
Database Management				
Fill the database according to JSON Response from API	Ryan	3/13/2017	3/19/2017	40
Pull categories from database and create dropdown on webpage	Ryan	3/13/2017	3/19/2017	0
Load items from category onto the webpage	Jerry	3/13/2017	3/19/2017	0
Progress Bar:				

Documentation				
Interim Status Report	Brandon	3/6/2017	3/9/2017	100
Final Presentation	Brandon	3/13/2017	3/20/2017	0
Progress Bar:				