**Capstone 1 Proposal**

**(using Python Flask/PostgreSQL)**

**Initial Idea:**

Mars Rover Photo Album- Uses NASA Public API, in particular Mars Rover images, Searching for dates should provide information images from the particular rover mission and the date. Additional Functionality: Searching for Rover Image using External API, saving/deleting from Postgres database, Login, and Authentication.

**1. What goal will your website be designed to achieve?**

This website is a mix of education and entertainment, where you would select a rover and dates and add those to a personal photo album.

**2. What kind of users will visit your site? In other words, what is the demographic of your users?**

Anyone who has an interest in Mars, but students primarily.

**3. What data do you plan on using? You may have not picked your actual API yet, which is fine, just outline what kind of data you would like it to contain.**

I will use the NASA API. In particular the one for Mars Rover Images.

**4. In brief, outline your approach to creating your project (knowing that you may not know everything in advance and that these details might change later). Answer questions like the ones below, but feel free to add more information:**

**a. What does your database schema look like?**

Image data from external API:

Rover\_name, earth\_date, image\_url, sol (Mars mission date)

**b. What kinds of issues might you run into with your API?**

With the external APIs there is always any issue of the data no longer being available one day.

**c. Is there any sensitive information you need to secure?**

I plan to have a login function, so users will have persistent data available to them alone.

**d. What functionality will your app include?**

Search dates return images from external API, adding/deleting photos from authenticated photo album.

**e. What will the user flow look like?**

1. Login

2. Search for dates, that return rover images.

3. Add images to photo album

4. Delete images

**f. What features make your site more than CRUD?**

Login to create personalized photo album.