

## Capstone: Step Two - Write a Project Proposal

### Project Proposal: Astrophotography App

1. What tech stack will you use for your final project?
  - JavaScript, React, Node.js, Express, NASA open API, PostgreSQL, JSON
2. Is the front-end UI or the back-end going to be the focus of your project?
  - This project is focus on full-stack application
3. Will this be a website? A mobile app? Something else?
  - The project will be a web application.
4. What goal will your project be designed to achieve?
  - Display astropictures in an application where users will be able to create an account and navigate throughout the astrophotography of the day, and look at previous pictures in a calendar.
  - Additionally users will be able to save their favorite pictures in their account to display whenever wanted.
5. What kind of users will visit your app? In other words, what is the demographic of your users?
  - This application is targeted for people passionate about astrophotography and astronomy. From any range of ages but curious about the universe.
6. What data do you plan on using? How are you planning on collecting your data?
  - NASA open API will be integrated to collect and display data regarding the title, author, and description of the picture.
7. In brief, outline your approach to creating your project:
  - a) What does your database schema look like?
    - a) User
      - i) user\_name
      - ii) user\_id
      - iii) email
      - iv) password
      - v) favorites
    - b) Image
      - i) image\_id
      - ii) image\_title
      - iii) image\_description
      - iv) image\_date
    - c) Favorites
      - i) user\_id

ii) image\_id

- b) What kinds of issues might you run into with your API?
  - Server might not find the requested resource from the open API.
  - Missing content from API.
- c) Is there any sensitive information you need to secure?
  - User information such as email and password need to be secured.
- d) What functionality will your app include?
  - App will allow displaying pictures from any chosen date in a displayed calendar, and add any to favorites under username.
- e) What will the user flow look like?
  - Login / Sign Up → Select from Calendar → Display astrophotography → Add to favorites → Logout
- f) What features make your site more than a CRUD app? What are your stretch goals?
  - The option to navigate throughout different dates of data submitted and updated daily.