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Professor David Augenblick

CS 275

August 12, 2018

Project Proposal: NASA NEO

Project Overview:

The purpose of the app/project to extract data from the NASA's open API, and display it to the user. The data might include information about the Near Earth Objects, close to earth within given dates. This project is about curiosity, curiosity about space, the moving frontier, what happens so close to Earth and still goes unnoticed my billions of us/humans.

We might also display Astronomy Picture of the Day; there's a big potential because of the massive amount of information that their API provides.

Functional Requirements/Scope

The functionality of this app should include calls to NASA's API, and rendering the responses to the website's content, for the user to view.

NASA's api is open to all, so there is no need of an api key for user, because it's provided by our team.

Architectural Design

Front End:

- Webpage
    - HTML
    - Javascript
    - Cascade Style Sheets
    - Ajax

Back End:

- SQL database
- Server
    - Calls to the api

Client side

Client sends the request to the server with the arguments of Start Date and End Date.

Client clicks on a different button to render the Astronomy Picture Of the Day.
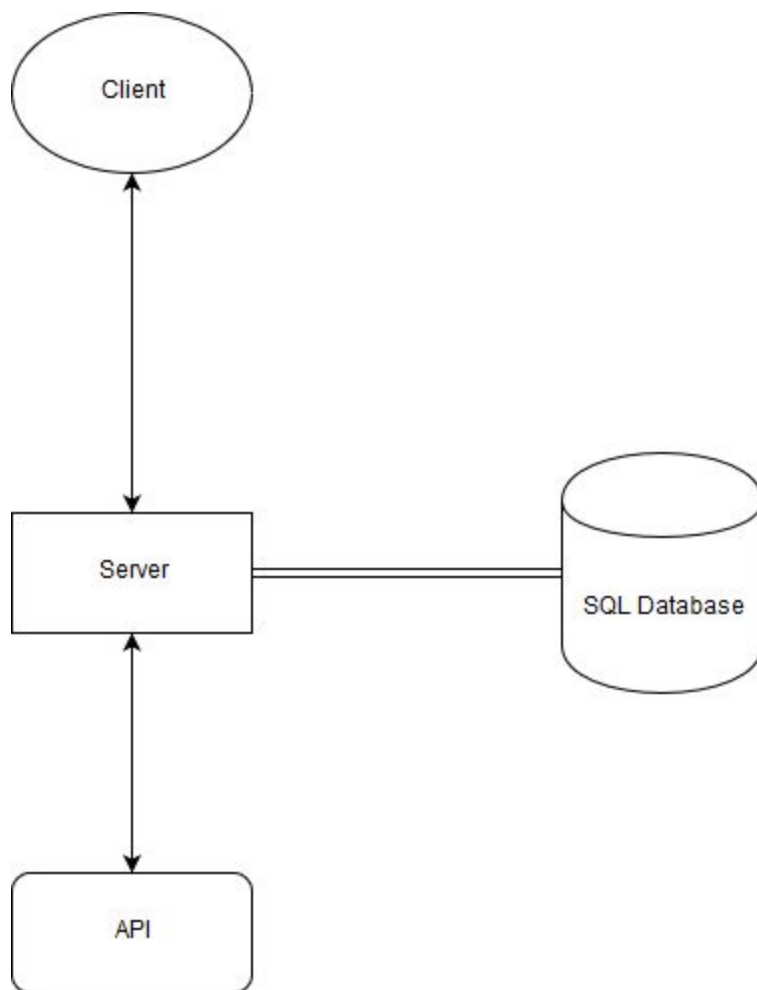
Server side

Server receives GET requests from user, and with the date arguments passed, makes a call to the

API, which in turn returns a JSON object, which is then sent to the client, which will be

translated into a user friendly display sheet.

Database

We are planning on incorporating an SQL database, saving responses/json objects in an SQL table in the following way:

1. User selects an object
2. We take it's id and date
3. We store it's information in our SQL database
4. Whenever the user wants to look at it again, we can make a special GET request, passing in the id and dates as arguments
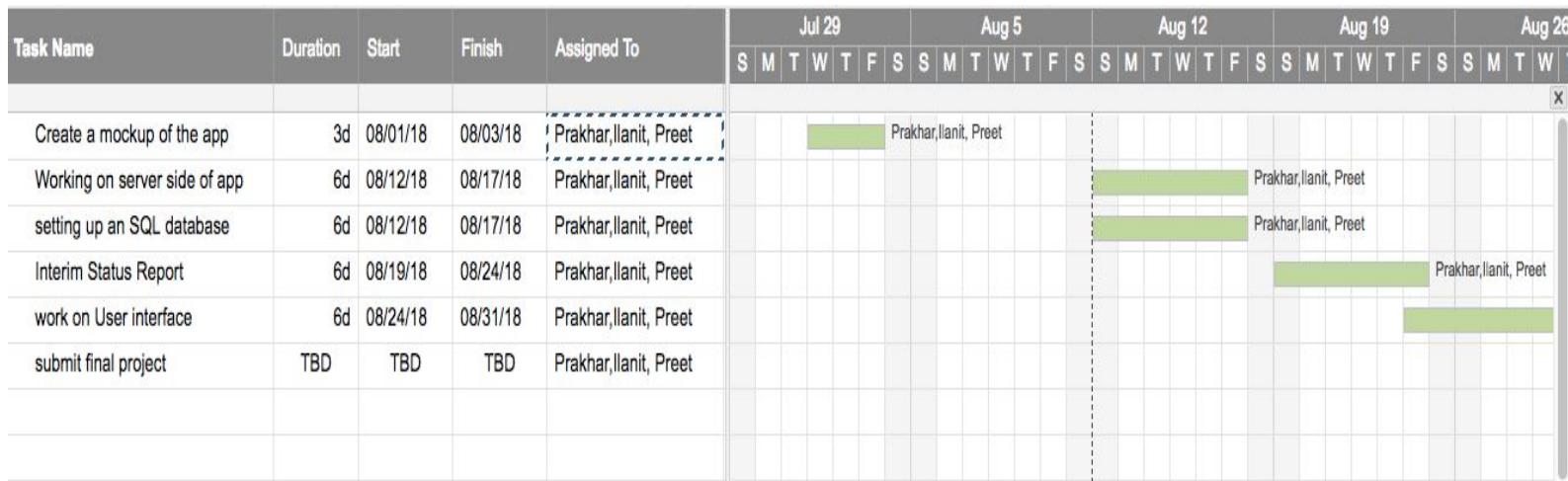
Informational Flow Diagram

Plan and Schedule

What is due?	When is it due?
Project Proposal	August 12th, 2018
Interim Status Report	August 24th, 2018
Final Project Due	TBD

Group Roles & Responsibilities

Name	Role
Prakhar Saxena	Developer
Ilanit Izrailov	Developer
Preet Patel	Developer

Gantt Chart

Task Name	Duration	Start	Finish	Assigned To	Jul 29	Aug 5	Aug 12	Aug 19	Aug 26
Create a mockup of the app	3d	08/01/18	08/03/18	Prakhar,Ilanit, Preet	Prakhar,Ilanit, Preet				
Working on server side of app	6d	08/12/18	08/17/18	Prakhar,Ilanit, Preet			Prakhar,Ilanit, Preet		
setting up an SQL database	6d	08/12/18	08/17/18	Prakhar,Ilanit, Preet			Prakhar,Ilanit, Preet		
Interim Status Report	6d	08/19/18	08/24/18	Prakhar,Ilanit, Preet				Prakhar,Ilanit, Preet	
work on User interface	6d	08/24/18	08/31/18	Prakhar,Ilanit, Preet					
submit final project	TBD	TBD	TBD	Prakhar,Ilanit, Preet					

Database Schema

Object Information
NeoReferenceID
Name
ClientID
Start Date
End Date

Client Information
Name
ClientID
Password