**Stellar App**

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**Description:**  
Location based app used for information on current astronomical events such as star alignments, constellations, meteor showers, moon phases, sunrise/sunset times, etc. Our app would implement geographical guides to planetariums, science centers, and museums.

Use an API to override the user input for location and go straight to getting their longitude/latitude since our app would revolve in large part to this information. There are different tabs for facts, pictures, videos, and future predictions as to where meteors will land, how far apart, and whether they’ll be visible to the naked eye. Our application is focused on history, facts, and prediction.

**History-** Dates for asteroids, meteors, star alignments, and overall historical astronomical events that have impacted the earth. A link will be referenced in a picture of a dinosaur that will then take you to a bible verse about how God created the earth in seven days, *if* user chooses not to believe in dinosaurs and how they were wiped by a meteor.

**Facts-** We use APIs to get data from different places about eclipses, lunar events, star positioning, constellations, and overall current astronomical happenings. This section also includes educational material about the outer space and the impact the solar system has on our planet.

**Prediction-** Future astronomical events are placed on a calendar to let users know about upcoming showers, eclipses, planetary alignments, and possible comets.

We are still working on a sketch for our application and how the user interface will be arranged.

**Possible APIs to be used:**

* Api.nasa.gov/planetary
* Api.spacexdata.com/vs/launches
* Predictthesky.org
* Htmly5 Geo Location

All members of our team are tasked with reading documentation on possible APIs to use the best fitting.

**@Andrea V.** is sketching the overall design and feel of the application.

**@Jay J.** is test calling APIs before putting them to use in our program.

**@Raj P.** is researching topics for content and designing workflow.