

Funnel has launched a satellite in order to tackle the lucrative lunar real estate market. To make sure the satellite doesn't come crashing back down, we're creating a web application to monitor its status. Your job is to write a health API for it.

Realtime information about the satellite is available from the `nestio.space/api/satellite/data` endpoint. The data is updated every ten seconds. The data is returned in this format:

```
{
  "last_updated": "2017-04-07T02:53:10.000Z",
  "altitude": "213.001"
}
```

`last_updated` is an ISO 8601 representation of the last time the data was updated and `altitude` is the altitude of the satellite in kilometers.

Your application should read the real-time altitude data from `nestio.space/api/satellite/data`, and expose an API over HTTP:

- Expose a `/stats` end-point that:
 - Returns the minimum, maximum and average altitude for the last 5 minutes.
 - Don't worry about persisting data beyond the life of the process -- if you don't have 5 minutes of data when the end-point is requested, return the stats for what you do have.
- Expose an `/health` end-point that:
 - Whenever the average altitude of the satellite over the last minute goes below 160km, return the message "WARNING: RAPID ORBITAL DECAY IMMINENT"
 - Once the average altitude over the last minute of the satellite returns to 160km or above, return the message "Sustained Low Earth Orbit Resumed" for 1 minute.
 - Otherwise return the message "Altitude is A-OK"
- Write unit tests for the health logic.
- Use any language/environment/dependencies you want to.
- Please provide a README describing how to setup and run the application.