**Connect :**

* Grok the server, port, and device
* Malloc a pointer to the gps\_data\_t structure
* Open the stream to GPSD
  + - error checking (Display error message and terminate program if failed)
* Set flag to WATCH\_ENABLE and WATCH\_DEVICE
* Start streaming reports from GPSD
* Transition to **Read from GPSD**

**Read:**

* Loop forever
* Wait for new data from the Daemon specified by a timeout
  + - Perform error checking (Display error message and exists program)
* Read from the GPS and obtain gps\_data
  + - Perform error checking (Display error message)
* Transition to **Update** **Screen** state

**Update Screen:**

* Access gps\_data\_t structure
* Check if number of satellites available is greater than zero
* Loop through the maximum amount of possible satellites
  + - Check if a satellite is available
      * + Display time stamp, prn, elevation, azimuth, snr, and used flag (Y or N) of the satellite.
* Display longitude and altitude if there are more than two satellites detected.