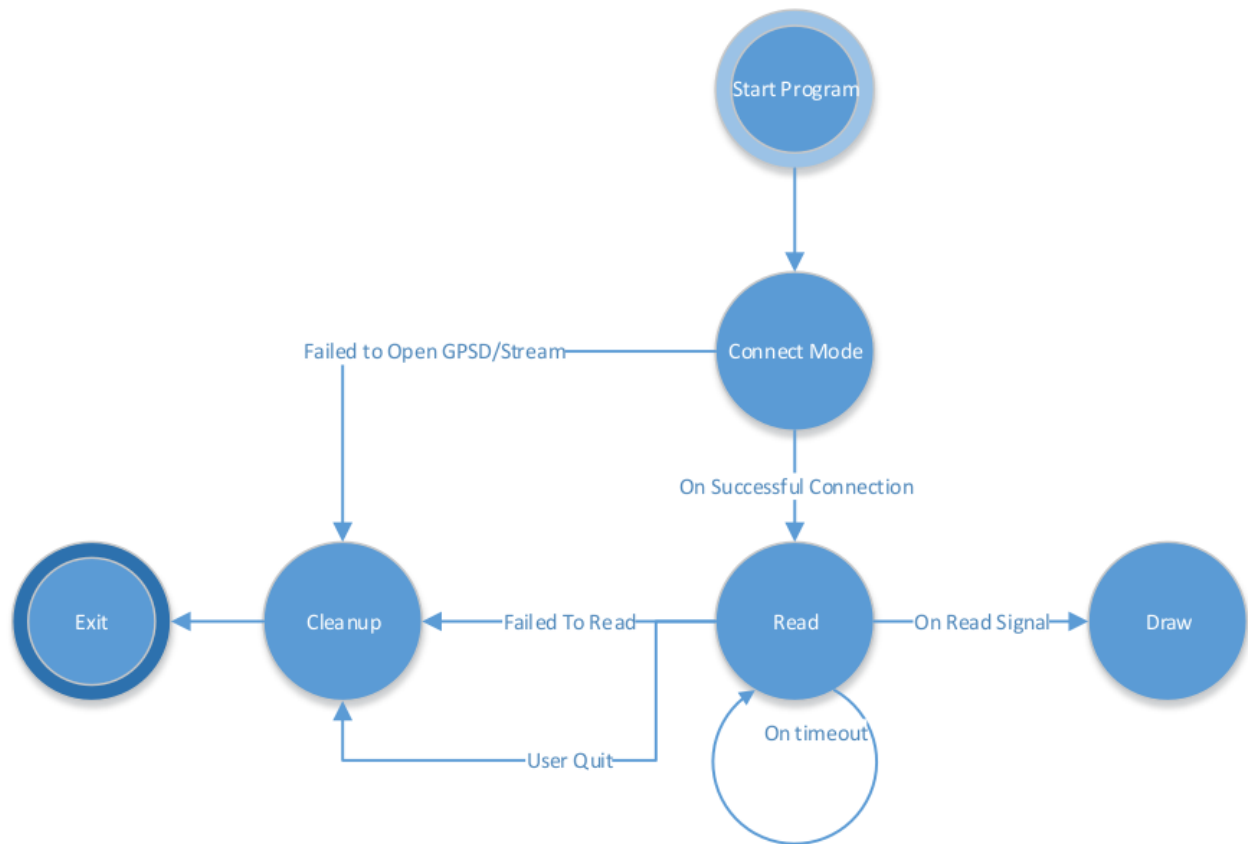# piGPS

Raspberry Pi GPS Application

Design Document for the Raspberry Pi GPS Application
Transition state diagrams and high level pseudocode for the initial design of the application.

Carson Roscoe

State Diagram

Pseudocode

ConnectMode:

Open gps

    if fail, call Cleanup

Open gps stream

    if fail, call Cleanup

If both succeeded, call Read.

Read:

Loop reading

    If fail, call Cleanup.

    If timeout, continue looping and read again.

    If data is read successfully, call Draw

Cleanup:

Free all GPS data

Free all other data

Close application

Draw:

Obtain data to draw

Draw the layout

Draw the data to the bottom box and treat it as a console.

Draw all information for all satalites there. The required data.

Draw a graph of the world

    Plot where the latitude and longitude of the user is.

    Plot where the satallites are.

Draw a legend

    Explain what represents user and what represents satallites