Nibo

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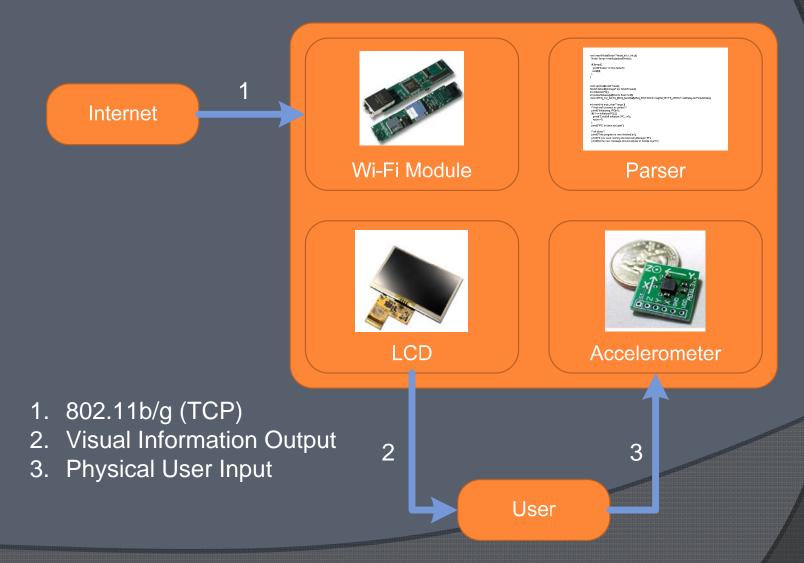
Status Update

- A device that allows users to monitor information of their choice (weather, stocks, sports, etc.) at a glance.
- Not a (portable) orb!

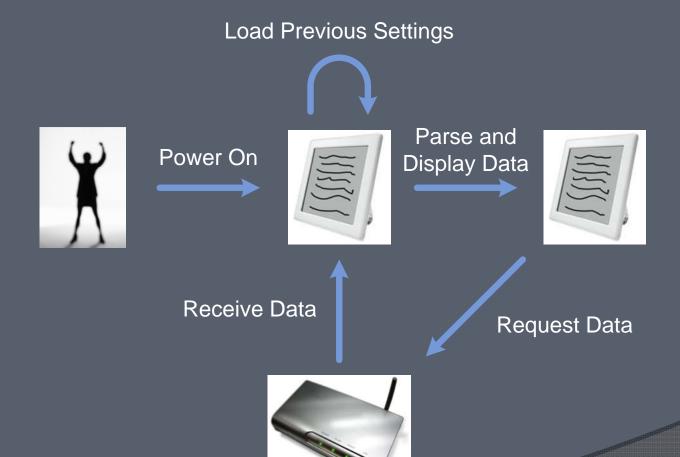


- Parts list mostly finalized
- Researching accelerometer choices
- No parts acquired yet

Architecture



Use Case: Startup



Use Case: Shutdown

Store current feeds and content





Power Off



Shutdown



Use Case: Loss of Connection





Display data from last update and following message on screen:

Unable to retrieve data.

This feed may be x+ minutes old.

Attempt to Receive Data (and fail)

Request Data



Risks & Mitigation

Risk	Mitigation Strategy
We are unable to retrieve data from the internet (partial data or no Wi-Fi)	Alert user that data could not be retrieved via message on screen Display data from last update (if possible)
Accelerometer is too sensitive	Recalibrate
We are unable to interface w/ accelerometer via SPI	Try another accelerometer (RS232)
We are unable to interface w/ LCD or LCD does not refresh quickly enough	Try another LCD (SPI)
Long startup time (boot time + time needed to acquire Wi-Fi connection)	Customize kernel to remove unneeded modules Display data from last update
Device Configuration	Web based Touch-screen
Crash recovery	Journaling file system Flash based memory optimizations