Open Assistant Roadmap

Install new voice options. Test various speech recognition packages. Investigate multiple language and accent support.

Develop GUI with message console and OA "face" with a database and internal connections.

Move any functions involving voice commands within `core.py` to separate `abilities` folder with individual files for each ability. All system oriented functions can be put into a single ability file named `system.py`.

Within the `minds` folder, create folders for each mind, such as `boot` and `root`. Move language model files and `hmm` directories from `cache` into each specific mind folder, in a new directory named `words`. Eliminate `cache.` Each mind directory will also have a folder named `sounds`. Boot and root minds will be mostly silent by default. Develop one functional "user mind" named "Stella."

Expand and clarify all abbreviated variable names. Add docstrings to all functions.

Basic network agent testing.

Potential Abilities:

System: listening confirmation / audio detection / microphone calibration, open / close assistant, time, date, day of the week, diagnostics (drive space, temperature, cpu activity), opening / closing applications, copy / paste, window focus, interactive command configuration, logoff / suspend / shutdown.

Network: status (online / offline), enable / disable, ip address, ping, speed test.

Information: weather, news, email, messages, spelling, searches, screen reading, audio playing / recording, scheduling, alarms.

Vision: facial / object recognition, gesture commands, motion detection.

Display: console messages, interactive "face", basic OA listening and muting control.

Minds: create specific "personalities" or "bots" offering advanced functionality (learning, teaching, data analysis, conversation, entertainment)

General Support Activities:

Promotion: Social media sharing (Facebook, Twitter, LinkedIn, YouTube, Slack, Riot), media contacts (magazines, podcasts, bloggers, television), foundation / project / company connections (related entities, potential clients, collaborations).

Documentation: User / developer information collection, organization, and publication.

Hardware Development: Device conception, production, and sales. Physical product-based company start-ups.

Software Sales: Commercial offers of specific functionality. Consulting and support.

AI / Systems Engineering: Design of ML/DL/NN "minds." OA.OS core innovation.