

Brainstorming

System Requirements Specification

This describes the functional and nonfunctional requirements in more detail. If necessary, further detail may also be added to the nonfunctional requirements. Interfaces to other systems may be defined.

Core System Requirements

1. Commands
 1. Ability to accept commands
 2. Ability to execute commands
 3. Ability to return output of commands
 4. Ability to add new commands
 5. Ability to remove existing commands
 6. Ability to modify existing commands
 7. Ability to add custom functionality to commands
2. New Features
 1. Ability to have new features add to existing systems
 2. Ability to have new features replace existing systems
 3. Ability to have new features create new systems
 4. Ability to have new features customize existing systems

User Interface Requirements

1. Graphics
 1. Ability to view output of commands
 2. Ability to view a Graphical Assistant
 3. Ability to view settings
2. Interface
 1. Ability to enter commands
 2. Ability to modify the Graphical Assistant
 3. Ability to modify settings

Plugin Requirements

Reminders

- Set Reminders
- Alert the user of the Reminder

Email Integration

- Send Emails
- Receive input by Email

SMS Integration

- Send SMS messages
- Receive input by SMS message

IRC Integration

- Send messages to IRC channel
- Monitor IRC channel
- Receive input by reading IRC channel content

Discord Integration

- Send Discord DMs
- Receive input by Discord DM
- Monitor one (or more) discord channel(s)
- Perform Moderator Actions in one (or more) discord channel(s)
- Send messages in one (or more) discord channel(s)
- Receive input by messages in one (or more) discord channel(s)

Windows/Linux/Android Integration

- Provide OS specific functionality (ex. File Search)

Internet Search

- Search the Internet for a query

Basic Assistant Expressions

- Allow assistant expression changes through image-swapping

Live-2D Assistant

- Replace the semi-static 2D assistant with a Live-2D character model.
- Provide relevant configuration options for the Live-2D assistant.

3D Assistant

- Replace the semi-static 2D assistant with a 3D VRM character model.
- Provide relevant configuration options for the 3D VRM assistant.

Image Recognition

- Perform Image Recognition (AI)

Voice Recognition

- Process Verbal Queries as Text (AI STT)

Personal Voice

- Vocalize text responses (AI TTS)
- Allow vocal customization

Machine Translation

- Perform Machine Translation (AI)

Natural Language Queries

- Parse Complex Natural Language Queries (AI)
- Maintain a log of past natural language queries
- Utilize query log to influence response to new natural language queries (AI)
- Determine Relative Positivity/Negativity in Queries (AI)
- Utilize relative positivity/negativity to influence response to new queries (AI)