# Feature List

GUI

* Basic GUI structure
* Delegating commands
* Displaying tasks
* Displaying hashtags
* Task autonumbering (relative system)
* Displaying hints after command
* Displaying hints during command
* Autocomplete
* **Quickstart Guide**
* **Priority marking**
* **Reminder**
  + **Notification window**
  + **Selecting notification sound**
* **Hotkeys**
  + **Scrolling using up/down arrows**
  + **Global Minimize/Restore**
  + **Global pasting**
* **Advanced GUI**

Adding

* Task building
  + Interpret date
    - Single
    - Multiple
    - Range
  + Hashtags marking
  + Flexible task format (near NLP)
  + Chronological date display per task
  + Auto ignore system (object count, location, long number strings)
  + Manual ignore system
  + **Reminder recognition**

Deleting

* Relative objects system
* **Multiple tasks deletion**

Task Completion

* Relative objects system
* **Multiple tasks completion**

Editing

* Relative objects system
* Edit autocomplete

Displaying

* Basic Display
* Search by keyword
* Sort chronologically
* Default hashtags (#tdy, #tmr, etc.)
* Custom hashtags
* Relative date display (today, tomorrow, actual date)
* Grammatically correct date listing (comma/and/from/to)
* Grammatically correct date prepositions (on, at)

Hints

* Message object
* Partial command hints
* Command usage hints
* Autocomplete System
* **Overlap warning**

Undo/Redo

* Action object
* Command dictionary (alternative commands)
* Object oriented actions for all actions

List Processor

* Sort based on date
* **Filter based on date**
  + **Today**
  + **Tomorrow**
  + **Upcoming (this week)**
  + **Someday (no date)**
* **Filter based on hashtags**
  + **Default hashtags**
  + **Custom hashtags**

Storage

* Saving list of tasks as JSON to specified filename
* Parsing JSON file in specified filename into list of task

# Dependencies and Tools

Maven

* Using it simply for auto-dependency and packaging
* Can consider its potential as a project management system

PrettyTime

* Using it to recognize dates in natural language format (relative dates, etc.)
* Is not able to reliably parse strings of information correctly (partial match issues, grouping issues, etc.)

GitHub

* Main collaboration tool
* Issue tracker to track issues and tasks (improvised)

# Architecture

Current Structure

* GUI
  + Builder
  + Controller
* Logic
  + TaskBuilder
* ListProcessor
* Storage

Target Structure after refactoring

* GUI
  + Builder
  + Controller
* Logic
  + TaskBuilder
  + LogicalStorageSystem
  + ActionSystem
  + HintSystem
* ListProcessor
* Storage

Service Classes:

* Task
* Message
* Action (and subclasses)
* Toolkit

Projected Milestones (based on GitHub issue tracker)

(Bolded denotes complete)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | V0.0 | V0.1 | V0.2 | V0.3 | V0.4 | V0.5 |
| **GUI** | **Design Phase** | * **Basic GUI structure** * **Delegating commands** * **Displaying tasks** * **Displaying hashtags** * **Task auto numbering (relative system)** | * **Displaying hints after command** * **Displaying hints during command** | * **Autocomplete** * **Quickstart Guide** * Priority marking * Reminder   + Notification window   + Selecting notification sound * Hotkeys   + Scrolling using up/down arrows   + Global Minimize/Restore   + Global pasting * Advanced GUI | **Testing Phase** | **Finalization Phase** |
| **Adding** | * **Task building**   + **Interpret date/time**     - **Single** | * **Task building**   + **Interpret date/time**     - **Range**   + **Hashtag Marking** | * **Task building**   + **Interpret date**     - **Multiple**   + **Flexible task format (near NLP)**   + **Chronological date display per task**   + **Auto ignore system (object count, location, long number strings)**   + **Manual ignore system**   + Reminder recognition |
| **Deleting** | * **Relative objects system** | * Multiple tasks deletion |  |
| **Task Completion** | * **Relative objects system** | * Multiple tasks completion |  |
| **Editing** | * **Relative objects system** |  | * **Autocomplete for Edit** |
| **Displaying** | * **Basic Display** * **Search by keyword** * **Display chronologically** | * **Default hashtags** * **Custom hashtags** | * **Relative date display (today, tomorrow, actual date)** * **Grammatically correct date listing (comma/and/from/to)** * **Grammatically correct date prepositions (on, at)** |
| **Hints** |  | * **Message object** * **Partial command hints** * **Command usage hints** | * **Autocomplete System** * Overlap warning |
| **Undo/Redo** |  | * **Command dictionary (alternative commands)** | * **Action object** * **Object oriented actions for all actions** |
| **List Processor** | * **Sort based on date** | * Filter based on date   + Today   + Tomorrow   + Upcoming (this week)   + Someday (no date) * Filter based on hashtags   + Default hashtags   + Custom hashtags |  |
| **Storage** | * **Saving list of tasks as JSON to specified filename** * **Parsing JSON file in specified filename into list of task** |  |  |