# 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)
* Gramatically 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)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | V0.0 | V0.1 | V0.2 | V0.3 | V0.4 | V0.5 |
| GUI | Design | * 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 | 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 * Sort chronologically | * Default hashtags * Custom hashtags | * Relative date display (today, tomorrow, actual date) * Gramatically 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/Redi |  | * 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 |  |  |

Actual Milestone

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
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