

Le Duc - Developer Guide

Target User

- **Problem Scope:** Organize a students school tasks and non-academic tasks.
- **Value Proposition:** A student will be able to better manage their time, and be more productive.

User Stories

User Stories	Priority
As a student, I want to sort my task by type of task/by date/by description/by tag	Must Have
As a student, I want to prioritize different task	Must Have
As a student, I want to have recurrent task	Must Have
As a student, I want to display the task by day/week/month/year	Must Have
As a student, I want to edit a task	Must Have
As a student, I want to a better find feature (fuzzy matching)	Must Have
As a student, I want to postpone a task	Must Have
As a student, I want to have shortcut	Must Have
As a student, I want to display two or more different task list (for example professional and personal)	Must Have
As a student, I want the app to send me an email about my task	Nice-To-Have
As a student, I want to display only the task that hasn't been done yet	Nice-To-Have
As a student, I want the app to alarm me when a deadline is near	Nice-To-Have
As a student, I want to import from other task list	Nice-To-Have
As a student, I want to have subtask	Nice-To-Have
As a student, I want to see which task was done late, which task hadn't been done and which task was done on time	Nice-To-Have
As a student, I want to set a reminder	Nice-To-Have
As a student, I want to see my progression	Nice-To-Have
As a student, I want to add an excepted time	Nice-To-Have
As a student, I want to see the time left until the allocated time for that task is over	Nice-To-Have
As a student, I want to know the location, the address	Nice-To-Have

User Stories	Priority
As a student, I want to combine two tasks	Nice-To-Have
As a student, I want to visualize the task (GUI)	Not Useful
As a student, I want to have a login and a password or have a profile	Not Useful
As a student, I want to customize the welcome message	Not Useful
As a student, I want to have secret task	Not Useful
As a student, I want to have shared task	Not Useful
As a student, I want to delete a profile (like an admin)	Not Useful
As a student, I want to have some statistics	Not Useful
As a student, I want to see others students task	Not Useful
As a student, I want to have a message feature	Not Useful

Use Cases

- **Edit Command:**

- **System:** Le Duc
- **Actor:** High school student
- **Use Case:** Modify task
 - User will type “edit”
 - Le Duc will list the entire task list
 - User type the index of the task
 - Le Duc asks which part will be modified if it is not a Todo task
 - User answer and modify

- **Shortcut:**

- **System:** Le Duc
- **Actor:** High school student
- **Use Case:** Create shortcut
 - User type “shortcut”
 - Le Duc will show the first command to be modified
 - User type the shortcut for that command
 - Le Duc will show the second command to be modified
 - User type the shortcut for that command
 - ...
 - Le Duc will show the k command to be modified

- User type the shortcut for that command
 - Le Duc prompt an error, because there is a conflict between two shortcuts, and will ask to enter a new shortcut
 - User type another shortcut for that command
 - ...
 - Le Duc shows all the shortcuts
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Non-functional requirements

- **Task list size requirement:** The user is a super busy students, so he will have a lot of task. Size of task list possibly infinite (use of ArrayList, depends on the computer and the storage doesn't use much as it is a written file).
 - **Quality requirement:** The system is easy to understand and to be handled by a new user.
 - **Mastery requirement:** The system is easy to be mastered, the typing of new task should be easy and fast.
 - **Disaster recovery requirement:** If the system crash, the user shall find all his tasks in the storage file.
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Glossary

- **Fuzzy matching:** When searching for task descriptions via keyword, the "Sorensen-Dice" Fuzzy Matching algorithm is used to return top matches. This ensures that typos in the user query does not affect search performance
 - **Recurrent task:** A task that repeat every day/week/month...
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