

# Project Portfolio for COMPal - Yue Jun Yi

## About this Project

My team and I were tasked with enhancing a simple **Personal Assistant**, [Duke](#), which helps a user to manage tasks via a **Command-Line Interface**. We decided to morph it into a calendar application called **COMPal**, which targets NUS students who prefer to use a desktop application to manage their busy student lives.

**COMPal** integrates the existing **Command-Line Interface (CLI)** mode of interaction with a sleek and clean **Graphical User Interface (GUI)**. This caters to most students' preference to type fast, and also presents their tasks in a more intuitive and user-friendly way.

We have added the following features to **COMPal**:

- Simple commands for easy task management, such as addition of tasks and setting of reminders
- A system of flexible and intuitive keywords to have more control over the user's schedule, such as priority levels, start and end times
- A pleasant interface to view schedule for a particular day/week/month.

This is what our project looks like:

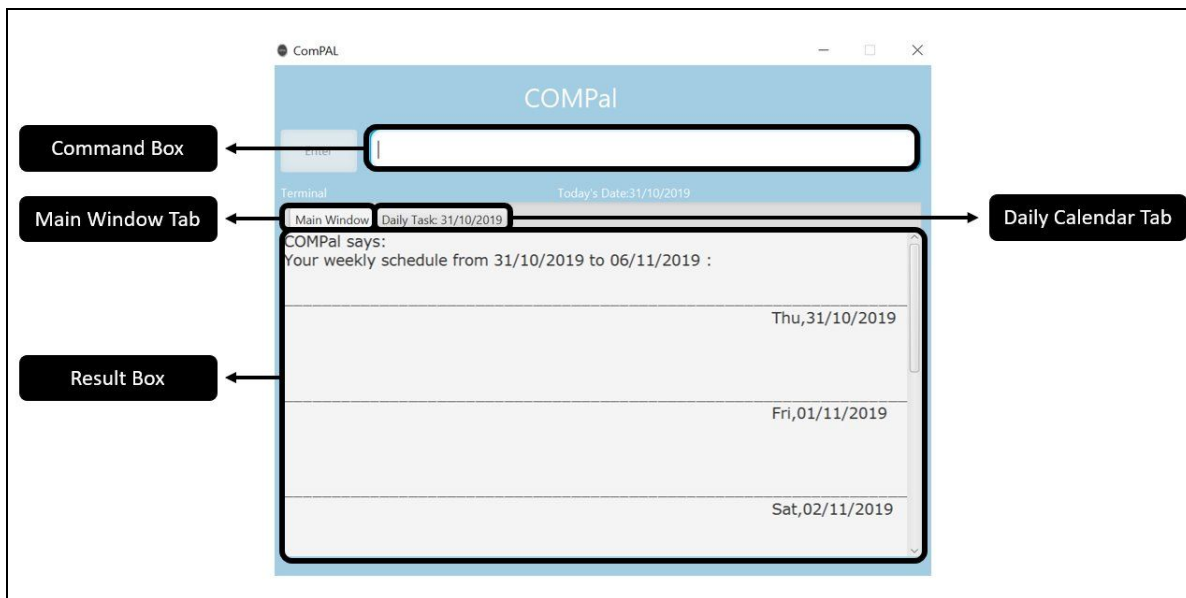


Figure 1: The GUI

for **COMPal**.

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## Summary of Contributions

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This section will list my coding, documentation, and other helpful contributions to the team project.

**Enhancements added:** I was heavily involved in the **Task Management** feature of **COMPal**.

- **COMPal** manages two types of **tasks**: **deadlines**, which have an **end date** and an **end time**, and **events**, which have to be done during a **fixed duration** on a **specific date**.
- I developed the system of parameter keywords for **events**. As it shared many similarities with **deadlines**, I worked closely with my teammate in charge of **deadlines**, Liu Peize.
- **event**: The **event** command allows the user to add an **event**. This command has the following keywords for the user to control the characteristics of the **event**:
  - **/start**: This keyword allows the user to enter the start time of the **event**.
  - **/end**: This keyword allows the user to enter the end time of the **event**.
  - **/priority**: This keyword allows the user to assign the priority of the **event**, with acceptable values of **low**, **medium**, and **high**.
  - **/final-date**: This keyword allows the user to add multiple **events** that happen at regular intervals. The final date that the user specifies after this keyword is the final possible date of the final iteration of the user's **event**.
  - **/interval**: This keyword allows the user to specify the interval of days in between each recurring **event**.
  - **/date**: This keyword allows the user to specify the date that Event is occurring on.

### Code Contributed:

- Please click this link to view my [Contributed Code](#)
- Please click this link to view my [Contributed Pull Requests](#)

### Other Contributions:

- Project Management:
  - I vetted our Developer Guide for submission.
- Enhancements to existing features
  - The initial structure of our project was not Object-Oriented. I collaborated with my teammates in restructuring our code (pull request [#84](#))
  - We implemented more structural refinements later on (pull request [#159](#), collaborating on another teammates computer)
  - The original **/date** keyword from **Duke** only took in a single date. I modified it to take in multiple dates, so that the user can enter multiple **events** that do not occur at regular intervals.
  - I changed the **/priority** keyword to an optional keyword, so that users can automatically assign a priority of **low** when they enter their **event** without that keyword.

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- Documentation
  - I created our project's README page to introduce potential users to our product with a more personal touch. ([README.md](#))
  - I updated all documentation related to the features I am in charge of. These can all be found in the **User Guide** and **Developer Guide** sections below.
- Community
  - The pull requests that I reviewed from my teammates can be viewed here: [Pull Requests](#)

Throughout this **Project Portfolio**, there will be various icons as described below:

Icon	Description
<b>i</b>	Additional important information about a term/concept
💡	A tip that can improve your understanding about a term/concept
⚠️	A warning that you should take note of

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## Contributions to User Guide

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These are the sections that I am in charge of in the User Guide:

- 4.1.2. Deleting a Task: `delete`
- 4.2.1. Deadline Management
- 4.2.2. Event Management

I will only include part of Section 4.2.2. on Event Management (up to Section 4.2.2.1.1.) and remove all page breaks, to stay under the page limit.

### 4.2.2. Event Management

Your best friend's birthday party. Your sibling's graduation. Your cousin's wedding.

Your 8 am Lecture. Your 8-hour code sprint for your software development project. Your compulsory torture session in the frigid exam hall.

Your student life is an endless merry-go-round of things to do - some joyful, some agonising. To better manage your time, you can set a preferred duration for each **task** you have to accomplish, and let **COMPal** track them as **events**. In this section, you will be introduced to commands and parameters that help you manage these **events**.

Below is a list of **parameters** and **keywords** that you can expect to use for the commands in this section.

**Table 2: Parameters and keywords for events.**

Keyword	Parameter	Usage
-	DESCRIPTION. All characters except underscores can be used.	You can <b>describe</b> your <b>task</b> in any detail. No keyword is required to be typed before your input - just describe your <b>event</b> !!
/date	DATE, in the format DD/MM/YYYY	You can enter the <b>date</b> that your <b>event</b> is happening <b>on</b>
/start	START_TIME, in the format HHmm	You can enter the <b>time</b> that the <b>event</b> is starting <b>at</b>
/end	END_TIME, in the format HHmm	You can enter the <b>time</b> that the <b>event</b> is ending <b>at</b>

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/priority	PRIORITY (low, medium, high)	You can assign a <b>priority</b> to multiple/single <b>event(s)</b> .
/final-date	FINAL_DATE, in the format DD/MM/YYYY	You can use this to add <b>multiple events</b> that occur at <b>regular intervals</b> . FINAL_DATE will be taken as the latest possible date for your <b>final event</b> .
/interval	INTERVAL, positive number greater than zero	You can use this to add <b>multiple events</b> that occur at <b>regular intervals</b> . Interval will be taken as the interval between each recurring <b>event</b> , in terms of the number of days.

i	/final-date, /interval and /priority are <b>optional keywords</b> . You can use them for more control over your <b>tasks</b> but can leave them out if you want to. <b>COMPal</b> will then revert to <b>default values</b> , which will be specified below.	
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⚠	Any dates that you enter <b>has</b> to be in the format DD/MM/YYYY, or <b>COMPal</b> will not understand your dates!
⚠	Any time that you enter <b>has</b> to be in the format of HHmm, or <b>COMPal</b> will be confused!

## 4.2.2.1. Adding Events

You can use the `event` command to get **COMPal** to add impending **events** to its impressive memory, and keep track of them for you. You'll never miss an **event** this way!

### Basic Command Format:

```
event DESCRIPTION /start START_TIME /end END_TIME /date DATE
```

### Example:

- event Dance Practice /start 1800 /end 2000 /date 02/10/2019

Adds an **event** with Dance Practice as DESCRIPTION, 1800 as the START\_TIME, 2359 as the END\_TIME and 02/10/2019 as the DATE.

- event Late Night Study Session /start 2200 /end 0100 /date 02/10/2019

Adds an **event** with Late Night Study Session as DESCRIPTION, 2200 as the START\_TIME, 0100 as the END\_TIME and 02/10/2019 as the DATE.

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Note that in this case, the absolute value of the `END_TIME` is **not after** the absolute value of the `START_TIME`. **COMPal** interprets this as your Late Night Study Session starting at 2200 on 02/10/2019, and ending at 0100 on 03/10/2019 (the following day).

⚠	An <b>event</b> has a maximum duration of 24 hours, i.e. if you enter the same value for both <code>START_TIME</code> and <code>END_TIME</code> , <b>COMPal</b> interprets it as a 24-hour long event. E.g. event LAN Party /start 2300 /end 2300 /date 02/10/2019 means that your LAN Party starts at 2300 on 02/10/2019 and ends at 2300 on 03/10/2019 (the following day).
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However, the above is merely the **basic format**. As students, we have to juggle schoolwork, friends, family, and perhaps even a side job. As our lives become increasingly hectic, we invariably have to pick some **events** to prioritise above others. To handle these concerns, **COMPal** lets you assign **priorities** and also create **recurring events**.

## 4.2.2.1.1. Assigning Priorities to Events

The optional `/priority` keyword lets you assign an **event** with a `PRIORITY`. If you have an **event** that you **absolutely have** to complete, you can enter a `PRIORITY` of `high`. If your **event** isn't that urgent, you can use the value of `medium`, or if it isn't something worth worrying about, you can assign it as `low`.

Alternatively, if you do not use the `/priority` keyword, **COMPal** will set the `PRIORITY` of your **event** as `low` by **default**.

### Command Format (Priority):

```
event DESCRIPTION /start START_TIME /end END_TIME /date DATE /priority PRIORITY
```

### Examples:

- event Netflix and Chill /start 2300 /end 0200 /date 02/10/2019 /priority high

Adds an **event** with `Netflix and Chill` as `DESCRIPTION`, `2300` as the `START_TIME`, `0200` as the `END_TIME`, `02/10/2019` as the `DATE`, and `high` as `PRIORITY`.

- event Birthday Bash /start 1800 /end 2300 /date 02/10/2019 /priority medium

Adds an **event** with `Birthday Bash` as `DESCRIPTION`, `1800` as the `START_TIME`, `2300` as the `END_TIME`, `02/10/2019` as the `DATE`, and `medium` as `PRIORITY`.

- event Study Session /start 1900 /end 2300 /date 02/10/2019 /priority low

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Adds an **event** with `Study Session` as `DESCRIPTION`, `1900` as the `START_TIME`, `2300` as the `END_TIME`, `02/10/2019` as the `DATE`, and `low` as `PRIORITY`.

- `event Study Session /start 1900 /end 2300 /date 02/10/2019`

This adds an **event** with `Study Session` as `DESCRIPTION`, `1900` as the `START_TIME`, `2359` as the `END_TIME`, `02/10/2019` as the `DATE`.

However, omitting the `/priority` keyword prompts **COMPal** to automatically assign `low` as `PRIORITY`, meaning that the result of this command is **identical** to the previous command. This example illustrates the **optional** nature of the `/priority` keyword.

## Contributions to Developer Guide

These are the sections that I am in charge of in the Developer Guide:

- Section 3. Setting Up
- Section 4.4. Logic Component
- Section 5.2. Task Management

I will only include Section 4.4. Task Management. All page breaks are removed, to stay under the page limit.

### 4.4. Logic component

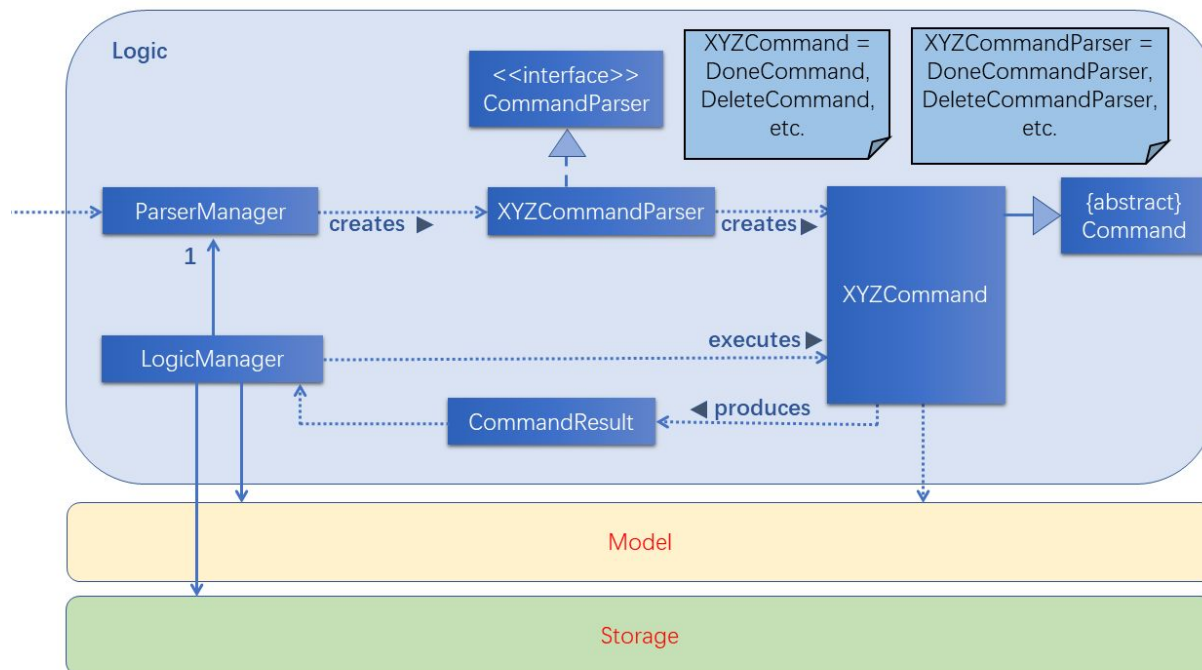


Figure 5. Structure of the **Logic** component

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API for LogicManager: [LogicManager.java](#)

API for ParserManager: [ParserManager.java](#)

API for CommandParser: [CommandParser.java](#)

API for Command: [Command.java](#)

The **Logic** component handles the parsing of user input and interacts with the **task** objects.

1. Uses the `CommandParser` class to parse user input.
  - a. This results in a `Command` object which is executed.
2. The execution of `Command` can affect a **task** object (e.g. adding a **task** to the `TaskList`)
3. The result of the `Command` execution is encapsulated as a `CommandResult` object which is passed to the UI to be rendered as output for the user.

Given below is the Sequence Diagram for interactions within the **Logic** Component for the `logicExecute` (`delete /id 1`) API call.

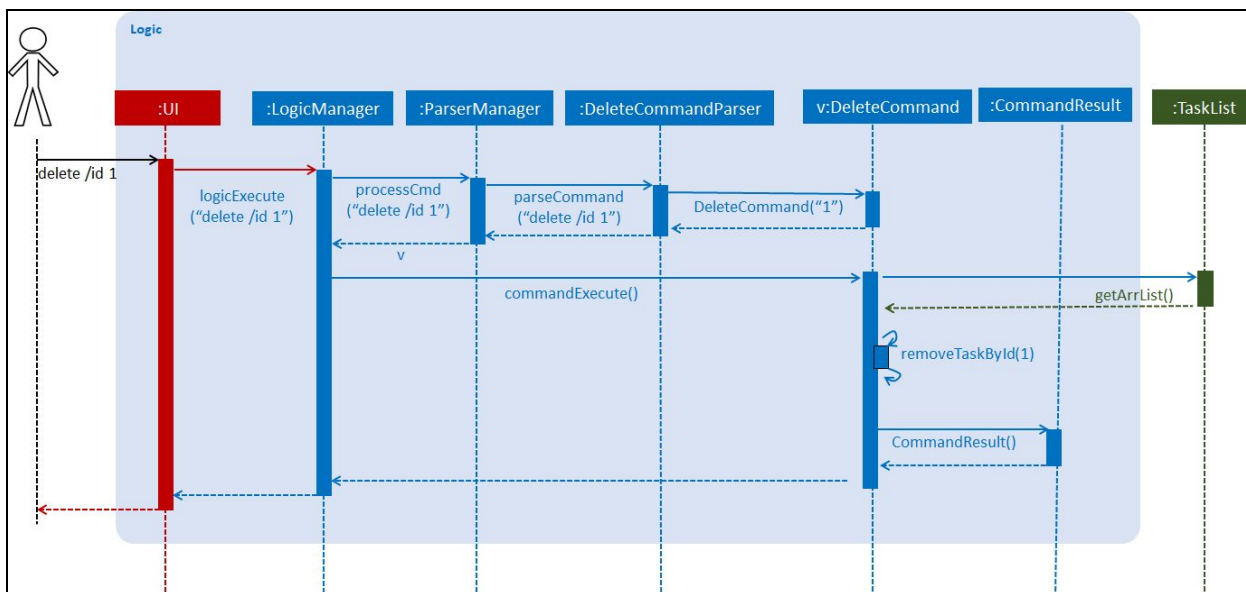


Figure 6: Interactions inside **Logic** Component for the `delete /id 1` command