

## Dear Future - Time Capsule App User Guide (Java CLI Version)

### Welcome to Dear Future!

Dear Future is a command-line time capsule application that lets you create digital time capsules. Store messages in capsules that unlock on a future date, and relive special moments, reminders, or reflections!

This app keeps things simple with a text-based interface. Just type your choices and watch your memories come alive!

### Main Features

1. Create a Capsule – Store messages to be unlocked on a future date.
2. View Capsules – See all your locked, archived (opened), and trashed capsules.
3. Open Capsules – Unlock capsules when the time is right.
4. Delete and Restore Capsules – Move capsules to trash or restore them.
5. Export and Import – Save or load capsules using JSON or CSV files.
6. Statistics and Insights – View interesting stats about your capsule usage.
7. Sort and Filter – Organize capsules by category, date, or title.

### How to Use

1. Launch the App: Simply run the application in your terminal.
2. Main Menu: You'll see a list of options, each with a number.
3. Type the number of the option you want and press Enter.

### Main Menu Options

=== Dear Future - Time Capsule App ===

1. Create a Capsule
  2. View Capsules
  3. Open a Capsule
  4. Delete a Capsule
  5. Restore a Capsule
  6. Permanently Delete a Capsule
  7. Export Capsules
  8. Import Capsules
  9. View Statistics
  10. Sort Capsules
  0. Exit
- Type the corresponding number to choose an option.

### Creating a Capsule

1. Select Option 1: Create a Capsule
2. Enter the following details:
  - Title – Name your capsule.

- Message – The content inside your capsule.
  - Category – Choose from Event, Reminder, or Reflection.
  - Unlock Date – The date and time the capsule will open (format: YYYY-MM-DD HH:MM).
  - Color – Choose a color for your capsule.
3. Confirm Creation – If all inputs are valid, the capsule will be saved and listed as locked.

### Viewing Capsules

1. Select Option 2: View Capsules
2. Choose a category:
  - Locked Capsules – Capsules waiting to be unlocked.
  - Archived Capsules – Capsules that have been opened.
  - Trash Capsules – Deleted capsules that can be restored or permanently deleted.

### Opening a Capsule

1. Select Option 3: Open a Capsule
2. Enter the Capsule ID you want to open.
3. If the unlock date is reached, the message will be displayed.
4. If the capsule is still locked, you will see a message indicating the remaining time.

### Deleting a Capsule

1. Select Option 4: Delete a Capsule
2. Enter the Capsule ID you want to delete.
3. The capsule will be moved to the Trash section.

### Restoring a Capsule

1. Select Option 5: Restore a Capsule
2. Enter the Capsule ID you want to restore.
3. The capsule will be moved back to the Locked section.

### Permanently Deleting a Capsule

1. Select Option 6: Permanently Delete a Capsule
2. Enter the Capsule ID you want to delete permanently.
3. Warning: This action cannot be undone!

### Exporting and Importing Capsules

1. Select Option 7: Export Capsules
2. Select Option 8: Import Capsules
3. Choose JSON or CSV format.

### Viewing Statistics

1. Select Option 9: View Statistics
2. See insights like Total Capsules, Locked Capsules, Opened Capsules, Deleted Capsules, Most Common Category, Most Used Capsule Color, and Unlock Trends.

## Sorting and Filtering Capsules

1. Select Option 10: Sort Capsules
2. Sort by Title, Unlock Date, Date Created, or Category.
3. Filter by Category: Event, Reminder, Reflection.

## Tips & Tricks

- Customize Your Capsules – Choose a color to make each capsule unique!
- Use Categories – Organize your capsules as Events, Reminders, or Reflections.
- Check Trash Regularly – Capsules stay in Trash for 15 days before auto-deletion.
- Surprise Yourself! – Set capsules to unlock on birthdays or anniversaries!

## General Notes

- The application is fully text-based and operates through a command-line interface.
- The app automatically saves your capsules, so you never lose your memories.
- Deleted Capsules are moved to Trash and can be restored within 15 days.
- Permanently Deleted Capsules cannot be recovered, so proceed with caution!