# User Documentation - DearFuture App

## Introduction

DearFuture is a time capsule application that allows users to store digital messages, photos, or videos in capsules that remain locked until a specified future date. Capsules can be customized with colors, categories, and location-based unlocking. Once opened, capsules are archived for future reference.

## Features

• Create and Lock Capsules – Store text, images, or videos with an unlock date.

• Countdown Timer – Displays the time remaining until a capsule unlocks.

• Customizable Capsules – Choose colors and categories for better organization.

• Location-Based Unlocking – Capsules can require being near a specific location to open.

• Archived Capsules – Opened capsules move to an archive for later viewing.

• Trash Management – Deleted capsules are moved to trash and automatically removed after 15 days.

• Sorting & Filtering – Organize capsules by name, creation date, or unlock date.

• Secure Storage – Capsules are stored securely using SQLite.

• Observer Pattern – Capsules update dynamically across the app.

## Getting Started

### Home Screen

The home screen displays locked capsules with countdown timers. Users can navigate to different sections of the app using the menu.

### Creating a Capsule

1. Click the Add button.

2. Enter a title and message.

3. Choose a color to categorize the capsule.

4. Select a category (Event, Reminder, Reflection, etc.).

5. Set an unlock date and time (required).

6. (Optional) Enable location-based unlocking and set a location.

7. Press Save to create the capsule.

### Viewing Locked Capsules

• Capsules remain locked until the unlock date.  
• A countdown timer displays the time remaining.  
• If location-based unlocking is enabled, the user must be within 1 km of the saved location to open the capsule.

### Opening a Capsule

• When the unlock date arrives, tap on the capsule.  
• If location-based unlocking is required, ensure you are within range.  
• The capsule will display its stored message, images, or videos.  
• The capsule is moved to the Archived Capsules section.

## Managing Capsules

• Editing – Capsules cannot be edited after creation.  
• Deleting – Move a capsule to Trash.  
• Restoring – Capsules can be restored from Trash before permanent deletion.  
• Automatic Cleanup – Capsules in Trash are permanently deleted after 15 days.

## Sorting & Filtering

• Capsules can be sorted by:  
 - Name (A-Z / Z-A)  
 - Date Created (Newest / Oldest)  
 - Unlock Date (Soonest / Latest)  
• Capsules can be filtered by category.

## Location-Based Unlocking

Capsules can require proximity to a saved location before unlocking.

### Setting a Location Lock

1. Toggle 'Use Location' when creating a capsule.

2. Press 'Set Location' to fetch your current coordinates.

3. The app saves the latitude and longitude of your position.

4. The capsule will only unlock when you are near this location.

### Unlocking a Location-Based Capsule

• The app checks your GPS location when you attempt to unlock.  
• If you are not within range, the capsule remains locked.  
• If you are within 1 km of the saved location, the capsule unlocks as usual.

## Archived Capsules

• Once opened, capsules move to the Archives.  
• Archived capsules can be viewed anytime but cannot be modified.  
• Users can browse past messages and memories.

## Trash Management

• Deleted capsules are moved to Trash instead of being immediately removed.  
• Capsules in Trash can be restored within 15 days.  
• After 15 days, capsules in Trash are permanently deleted.  
• Users can manually delete capsules permanently if needed.

## Troubleshooting & FAQs

### I cannot open my capsule.

Ensure the unlock date has passed. If location-based unlocking is enabled, check your GPS and confirm you are near the saved location.

### Can I change a capsule’s unlock date?

No, capsules cannot be edited after creation to preserve their integrity.

### Where is my data stored?

Capsules are securely stored in an SQLite database on your device.

### Can I back up my capsules?

The app does not currently support cloud backups, but users can manually save the .db file.

## Conclusion

This documentation outlines all the necessary details to use the DearFuture app effectively. If you have feedback or feature requests, feel free to provide suggestions.