

# Yeo Tong - LiBerry Project Portfolio

## Introduction

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### Purpose

This portfolio is written to document my role as the **User Interface** (UI) designer and my contributions to our project, **LiBerry**.

### About the project

**LiBerry** is a **free**, **single-user**, and **lightweight** library management system, that is designed to manage small community and private libraries. It does not require any internet connection to function and is optimized for librarians who prefer to work with a **Command Line Interface** (CLI). The **Graphical User Interface** (GUI) of **LiBerry** is created with **JavaFX** while the entire software is written in **Java**.

### Motivations

**LiBerry** is created to promote the setting up of private and community libraries, so as to improve literacy rates. One of the main reasons why literacy rates is low due to the lack of accessibility of knowledge. This is more prevalent in rural communities due to the lack of sources of knowledge.

Hence, in order to breach this gap in knowledge, we created **LiBerry**, which is a free, connectionless, easy to use library management system so as to encourage more people to set up their own community libraries.

### Main Features

The main features of **LiBerry** are:

- Adding/Removing of books
- Registering/Unregistering of borrowers
- Loaning/Returning of books
- Searching of books

These basic features would allow librarians to manage their libraries effectively.

### Key symbols

# Summary of Contributions

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This section describes the contributions that I have made to **LiBerry**.

## Major enhancement: Undo/Redo feature

- What it does: allows the user to undo all previous commands one at a time. Preceding undo commands can be reversed by using the redo command.
- Justification: This feature improves the product significantly because a user can make mistakes in commands and the app should provide a convenient way to rectify them.
- Highlights: This enhancement affects existing commands and commands to be added in future. It required an in-depth analysis of design alternatives. The implementation too was challenging as it required changes to existing commands.
  - **Minor enhancement:** added a history command that allows the user to navigate to previous commands using up/down keys.
  - **Code contributed:** [RepoSense Report](#)
  - **Other contributions:**
- Project management:
  - Managed releases **v1.3** - **v1.5rc** (3 releases) on GitHub
- Enhancements to existing features:
  - Updated the GUI color scheme (Pull requests [#33](#), [#34](#))
  - Wrote additional tests for existing features to increase coverage from 88% to 92% (Pull requests [#36](#), [#38](#))
- Documentation:
  - Did cosmetic tweaks to existing contents of the User Guide: [#14](#)
- Community:
  - PRs reviewed (with non-trivial review comments): [#12](#), [#32](#), [#19](#), [#42](#)
  - Contributed to forum discussions (examples: [1](#), [2](#), [3](#), [4](#))
  - Reported bugs and suggestions for other teams in the class (examples: [1](#), [2](#), [3](#))
  - Some parts of the history feature I added was adopted by several other class mates ([1](#), [2](#))
- Tools:
  - Integrated a third party library (Natty) to the project ([#42](#))
  - Integrated a new Github plugin (CircleCI) to the team repo

*{you can add/remove categories in the list above}*

# Contributions to the User Guide

*Given below are sections I contributed to the User Guide. They showcase my ability to write documentation targeting end-users.*

# Contributions to the Developer Guide

*Given below are sections I contributed to the Developer Guide. They showcase my ability to write technical documentation and the technical depth of my contributions to the project.*

## PROJECT: PowerPointLabs

*{Optionally, you may include other projects in your portfolio.}*