

Lab 04 - Implementing Design Patterns

In this lab work you will manager your codes follow the given design patterns.

Adaptor pattern

The use cases that one data object is displayed in several places with different formats. We have structure Book with cover image, title, author(s), number of pages, publisher, edition number, and ISBN. The book will be displayed in the following formats:

- Summary format:** The display is on home page where less text is better; the display is:

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Cover image (2:1)	Cover image2(2:1)
Title... Pages	Title2... Pages2
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Cover image3(2:1)	Cover image4(2:1)
Title3... Pages3	Title4... Pages4
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Cover image5(2:1)	Cover image6(2:1)
Title5... Pages5	Title6... Pages6
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- Details format:** The display is on one book details information; the display is:

Cover image (1:2)

Title... Pages
By ___Author(s)___
ISBN: ___ISBN___
Edition
Published by ___Publisher___

- Table row:** The display is one book a line; the display is:

No. Title ISBN Author(s) Edition Publisher

1 Title 1 0000000000 Author1 1 Publisher1
2 Title 2 0000000001 Author2 2 Publisher2

	3	Title 3		0000000002	Author3		3		Publisher3	

MVC Pattern

Add to the first task options **Add Book**, **Edit Book**, **Delete Book**. Then, implement the actions follow the MVC pattern:

- **Add Book** chosen
 - Show add book form (let user fill the form and submit to BookController)
 - BookController will validate book data and then
 - BookController ask BookModel to store book data to file
 - BookController will return result success (0).
- **Edit Book** chosen
 - Show edit book form (let user edit the form data and submit to BookController)
 - BookController will validate book data and then
 - BookController ask BookModel to update book data in file
 - BookController will return result success (0).
- **Delete Book** chosen
 - Ask user to confirm if user really want to delete and then
 - Submit book id to BookController for deletion
 - BookController ask BookModel to check if book exists
 - If book exists BookController will ask BookModel to delete that book from file.

Submit as link to your Gitlab project.