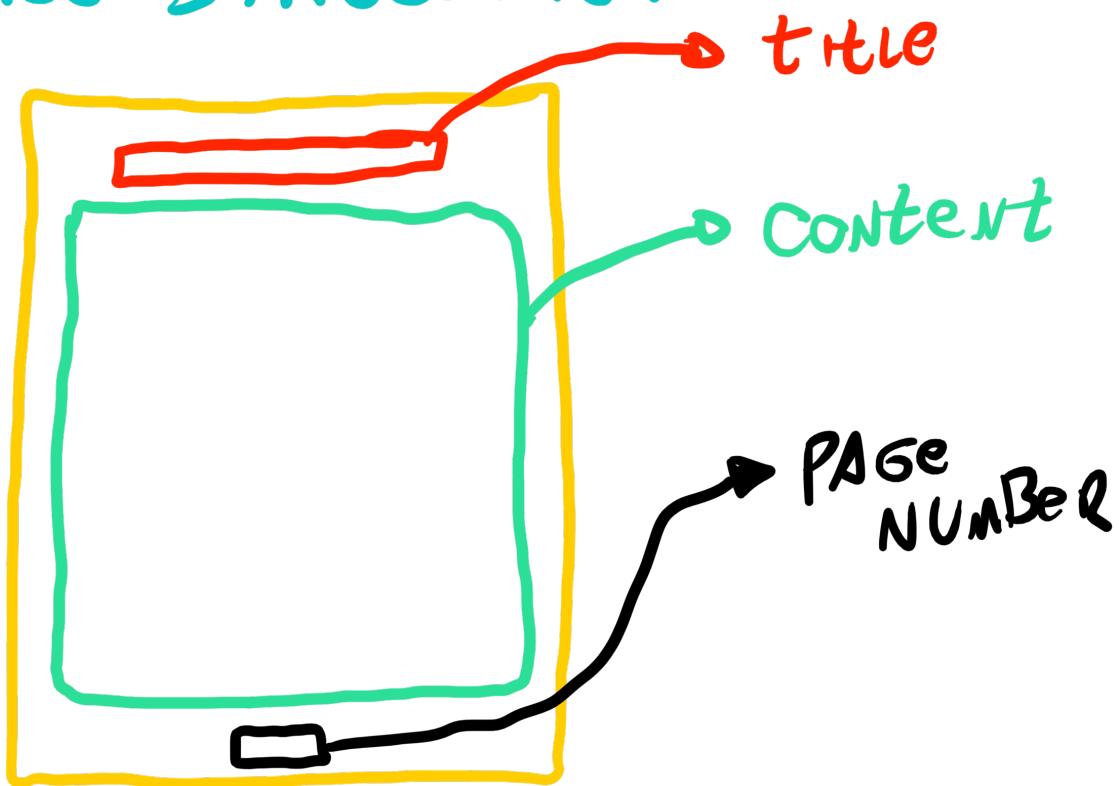


# KINDLE SOFTWARE

BRAIN STORMING...

What WILL the USER see?

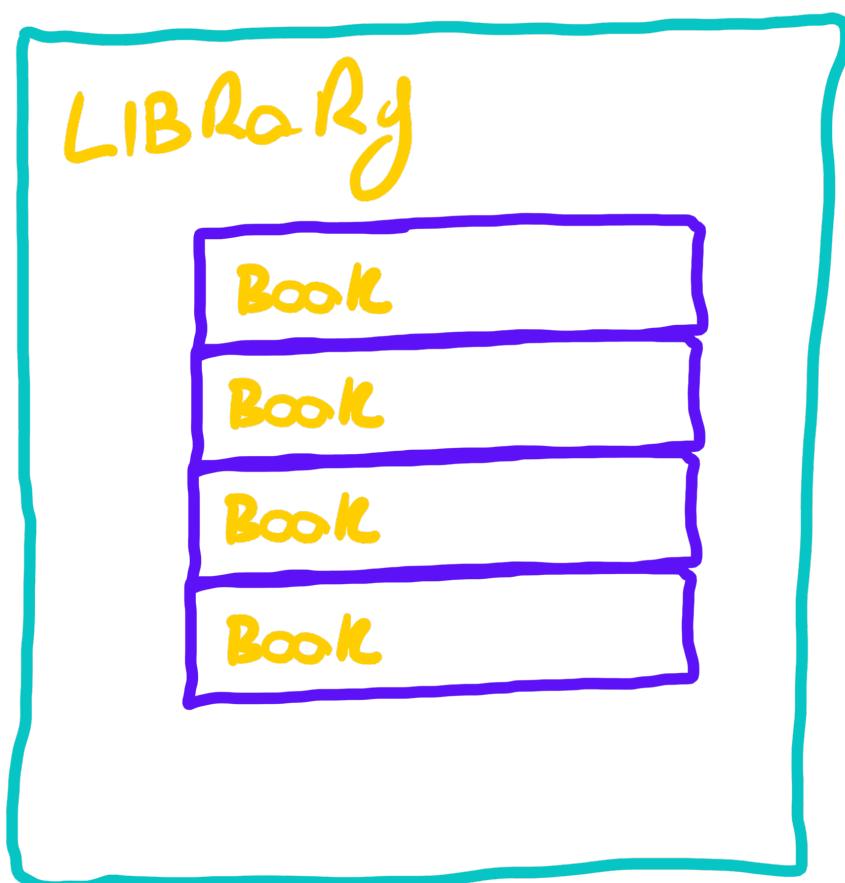
PAGE STRUCTURE:



IN this project, since no hardware or external tools are going to be used, the output is going to be shown in the console only, so don't take the interface design into consideration!

## Code Design

IN A KINDLE DEVICE, THERE IS A LIBRARY THAT STORES BOOKS. BOTH HAVE TO BE A CLASS WITH ITS OWN PROPERTIES AND METHODS.



# BOOK CLASS

## COMPONENTS:

title - SIMPLE STRING

content - LIST OF STRINGS

\* SINCE SPLITTING THE CONTENT  
INTO SMALLER CHUNKS OF TEXT IS NECESSARY,  
A LIST WILL BE USED.

\* FOR PAGE NUMBER, THE INDEX OF  
EACH CHUNK OF TEXT WILL BE USED.

book file - WHERE THE SOFTWARE WILL

GET THE CONTENT FROM. THIS IS A RAW  
FILE WITH NO SPACING/FORMATTING.

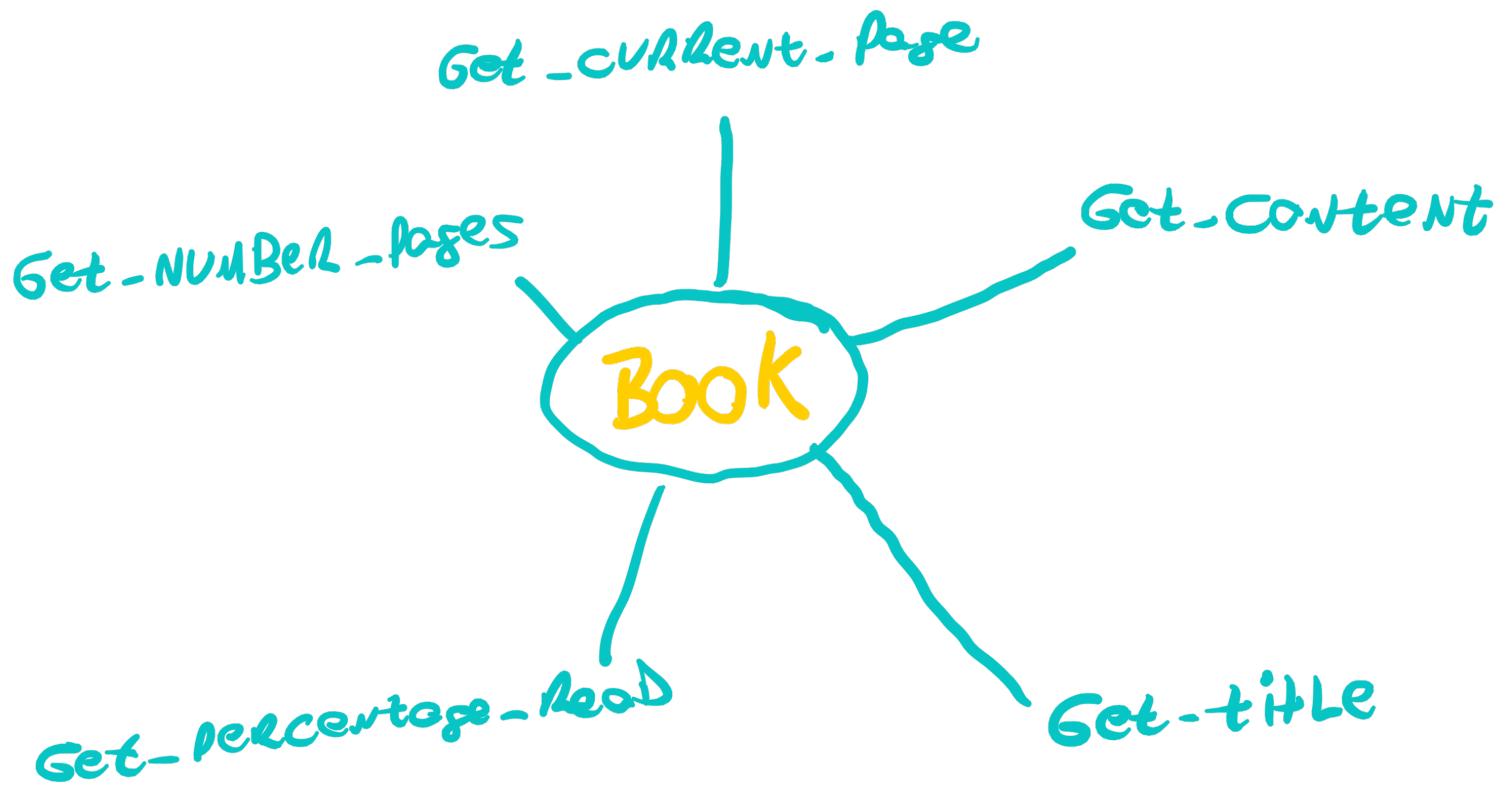
NUMBER OF TOTAL PAGES - THE LENGTH  
OF THE CONTENT ARRAY

CURRENT PAGE - COMPONENT THAT'S  
GOING TO ALLOW THE SOFTWARE TO SAVE PROGRESS  
IN EACH BOOK.

PERCENTAGE READ - FOR HOME FEATURE

$$= \frac{\text{CURRENT PAGE}}{\text{NUMBER OF TOTAL PAGES}} //$$

# Getter Functions



# Setter Functions



## Other Functions

DISPLAY PAGE - Displays a well-structured page (visit Page 5 for correct structure)

FORWARD - Move the Book PAGE By ONE (+1)

REWIND - Move the Book PAGE Back By ONE (-1)

HOME - Go Back to the List of Books STORED in the LIBRARY

\*SAVE PROGRESS WHEN THIS FUNCTION IS CALLED

# LIBRARY CLASS

COMPONENTS:

Books - AN ARRAY OF  
OBJECTS (Books)  
current Book - Book that was  
last selected

Initial Value = None

METHODS

Select-Book

ADD-Book

Home

Remove-Book

LIBRARY

# LIBRARY STRUCTURE

array = [

{ title: STRING,  
content: LIST OF STRINGS,  
current page: INT,  
last page: INT,  
total pages: INT },  
{ object 2 },  
...

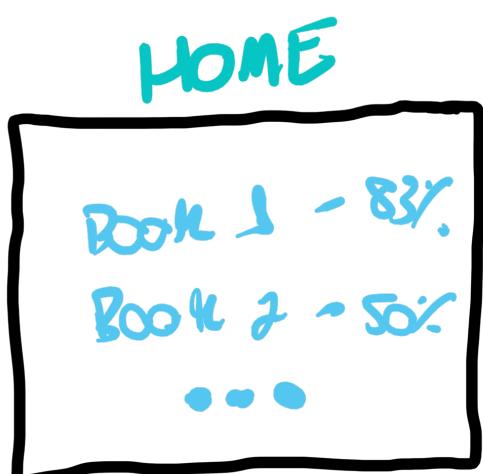
ADDITION/REMoval  
CHANGES DYNAMICALLY!

NUMBER OF WORDS PER PAGE: 80  
FOR TESTING,  
200 FOR DEPLOYMENT ]

Home - Displays DLL Downloaded

Books , including Percentage Read so far

Abstract



content

"HARRY POTTER"- 86%

operation for  
Percentage:

$$\frac{\text{current page} \times 100}{\text{total pages}}$$

~~$\frac{\text{current page} \times 100}{\text{total pages}}$~~

Select - Selects a Book by

Parameter

IF Book exists - "the Book has been  
selected successfully!"

else, throw error - "this Book Does  
not exist"

**ADD Book** - ADD a Book to the User's LibRary.

**PARAMeters:**

**title - STRING**

**content - HUGe STRING that is GOING to be SPLIT INTO Smaller text chUnks**

**APPEND the New object IN the LiBrary somehow.**

**Remove Book**

**LiBrary. Remove ( Book )**

**Use BUILT-IN Function**

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