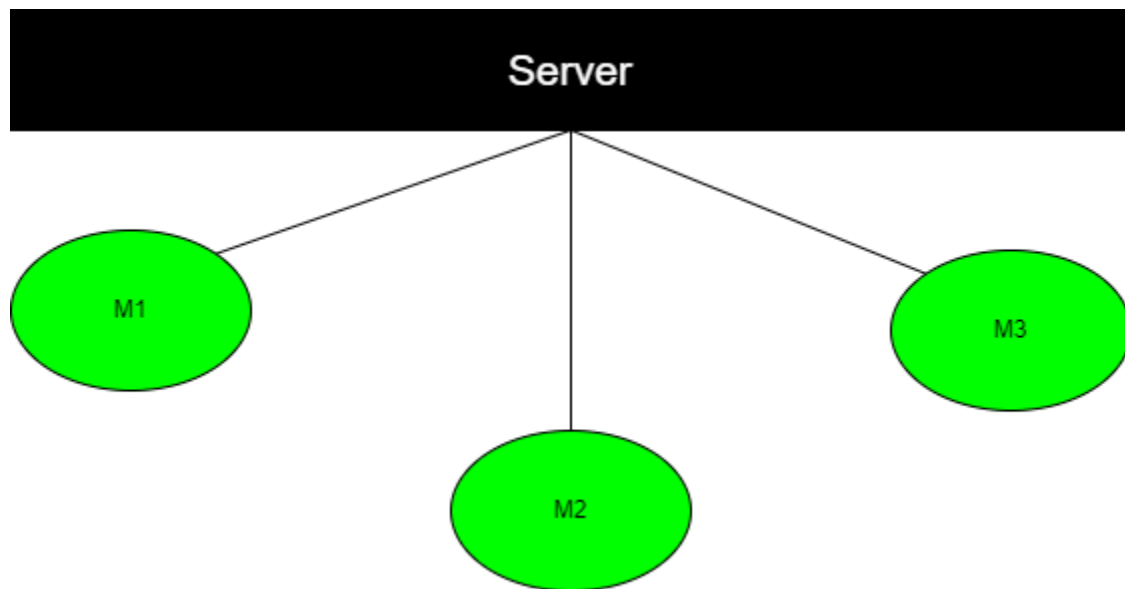


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M1: Loan

M2: Payment

M3: Printing

M1: Loan Book

Book Name

Author Name

Results

Search by book name

search by book
author

search by both

1	Loan					
1.1	book name --> text field					
1.1.1	only accepts letters and numbers					
1.2	author name --> text field					
1.2.1	Cannot accept punctuation characters					
1.2.2	Cannot accept numbers					
1.3	Search by book name --> Button					
1.4	Search by author name --> Button					
1.5	Search by both book name and author name --> Button					
1.6	Search answer --> list					
1.7	loan book -- > button					

Test Requirement		Test case number		Component		Input Value		Description	
With Valid input		1		Book Name		Harry Potter		Accepted	
With invalid input		2				Harry potter?		Error message --> Must only contain letters and numbers	

With Valid input		3		Author name		Shakespeare		Accepted	
With Invalid input		4				Ramez307		Error message --> cannot contain numbers	
		5				Ali!!!!		Error message --> cannot contain punctuation characters	

Test Requirement		Test case number		Component		Action		Description	
With Valid input		6		Search by Book name		book name --> Harry Potter Then click button		Accepted	
With invalid input		7				book name --> Blank Then click button		Error message --> the book name field must be filled with a valid book name	
		8				book name --> Harry potter? Then click button		Error message --> the book name field Must only contain letters and numbers	

With Valid input		9		Search by Author name		author name --> Shakespeare Then click button		Accepted	
With invalid input		10				author name --> Blank Then click button		Error message --> the author name field must be filled with a valid author name	
		11				author name --> Ramez307 Then click button		Error message --> the author name field cannot contain numbers	
		12				author name -->		Error message -->	

			Ali!!!! Then click button	the author name field cannot contain punctuation characters
With Valid input	13		author name --> shakespeare book name --> Harry potter Then click the button	Accepted
With invalid input	14		author name --> Blank Book name --> Harry potter Then click button	Error message --> the author name field must be filled with a valid author name
	15		author name --> Ramez307 Book name --> Harry potter Then click button	Error message --> the author name field cannot contain numbers
	16	Search by Both	book name --> Ali!!!! Then click button Book name --> Harry potter Then click button	Error message --> the author name field cannot contain punctuation characters
	17		book name --> Harry potter? author name --> Shakespeare Then click button	Error message --> the book name field Must only contain letters and numbers
	18		book name --> Blank Then click button author name --> Shakespeare Then click button	Error message --> the book name field must be filled with a valid book name
	19		book name --> Blank Then click button author name --> Blank Then click button	Error message --> the book name field must be filled with a valid book name and the author name field must be filled with a valid author name

M2: Payment

Annual Payment	Per-use Payment
Payment details	Payment details

Credit Card Number	<input type="text"/>
CVV	<input type="text"/>
<input type="button" value="Pay annual fee"/>	<input type="button" value="Pay monthly fee"/>

- 2 Payment
- 2.1 Annual payment --> text box
- 2.2 Per-use payment --> text box
- 2.3 credit card number --> text field
 - 2.3.1 must only contain numerical charecters
 - 2.3.2 must be between 16-19 digits
- 2.4 cvv --> text field
 - 2.4.1 must only contain numerical charecters
 - 2.4.2 must be 3 charecters
- 2.5 pay annual payment --> button
- 2.6 pay per-use payment --> button

Test Requirement		Test case number		Component		Input Value		Description	
With valid input		1		Credit Card Number		1234.5678.9123.4550		Accepted	
With invalid input		2				1234.5678.9123.abcd		Error Message --> Input must be numbers	
		3				1234.5678.9123.\!@#		Error Message --> Input must be numbers	
		4				1234.5678.9123.7		Error Message --> Input must be 16-19 numbers	

With valid input		5		CVV		123		Accepted	
With invalid input		6				abc		Error Message --> Input must be numbers	
		7				1234		Error Message --> Input must be 3 numbers	

Test Requirement		Test case number		Component		Action		Description	
With valid input		8		Pay Annual Fee/		credit card number --> 1234.5678.9123.4550		Accepted specific payment	
		9				CVV --> 123		set to 0	
					credit card number --> 1234.5678.9123.4550		Error Message --> CVV must be numbers		
			abc						
		10				credit card number --> 1234.5678.9123.4550		Error Message --> CVV must be 3 numbers	
			CVV --> 1234						
		11				credit card number --> 1234.5678.9123.4550		Error Message --> CVV cannot be blank	
					CVV --> blank				

12	Pay per-use Fee	credit card number --> 1234.5678.9123.abcd CVV --> 123	Error Message --> credit card must be numbers
13		credit card number --> 1234.5678.9123.\!@# CVV --> 123	Error Message --> credit card must be numbers
14		credit card number --> 1234.5678.9123.7 CVV --> 123	Error Message --> credit card must be 16-19 numbers
15		credit card number --> blank CVV --> 123	Error Message --> credit card cannot be blank
16		credit card number --> blank CVV --> blank	Error Message --> must fill in both credit card and CVV

M3: Printing

Upload File
Accepted format (PDF)

Print

Calculated price

- 3 Printing
- 3.1 upload file pdf --> drag and drop area
- 3.1.1 uploaded file must be a pdf
- 3.2 calculate/by page --> text box
- 3.2.1 community members are charged at 0.5/paper
- 3.2.2 students are charged at 0.25/paper
- 3.2.3 Faculty members are charged at 0/paper
- 3.3 print --> button

Test Requirement		Test case number		Component		Input Value		Description	
With Valid input		1		Upload file		test.pdf		Accepted	
With Invalid input		2					test.docx		Error message --> the uploaded file must be a .pdf

Test Requirement		Test case number		Component		Action		Description	
With Valid input		3		Calculated price		upload a 16 page test.pdf		16*0.5 if community member 16*0 if faculty member 16*0.25 if student	
With invalid input		4					don't upload anything		Error message --> Upload a file

With Valid input		5		Print		upload test.pdf then click the button		Accepted	
With invalid input		6					don't upload anything then click the button		Error message --> you must upload a file

Types of testing that will be included in the testing plan are:

- Unit Testing
- Regression Testing
- Integration Testing

Test plan:

- Unit Testing for M1
- Regression Testing for M1
- Unit Testing for M2
- Regression Testing for M2
- Unit Testing for M3
- Integration M2, M3
- Regression Testing for M1
- Regression Testing for M2
- Regression Testing for M2, M3

Use Case Estimation using T-shirt Sizing.

Use Case			Feature			T-shirt Size	
book management			Add Book in inventory			XS	
			Remove Book in inventory			XS	
			View All available books in inventory			XS	
			Search specific book with book_id			S	
			View Loaned Books			S	
Loan			Add The loaned book id to the user			S	
			Remove The loaned book from inventory			S	
			Assign the loan duration			M	
Payment			Annual payment by credit card			M	
			Annual payment by Bank Deposit			L	
Printing			Calculate Printing fees per use			L	
Contacting			Exchanging books			L	
			Donating books			XL	
			Purchasing books			XL	
Member Actives			Member donating books to library			XL	
			Members recommend books to library			XL	

Gantt Chart

5/20/2023 6/9/2023 6/29/2023 7/19/2023 8/8/2023 8/28/2023 9/17/2023 10/7/2023 10/27/2023 11/16/2023

