API description

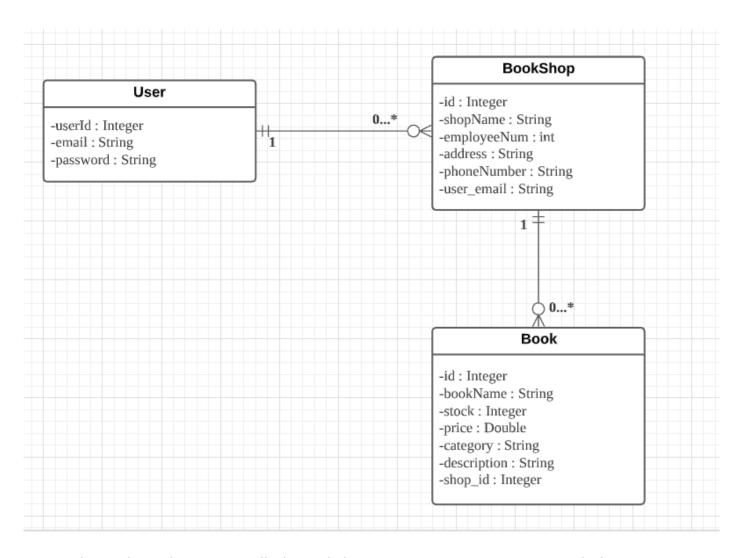
Please see the template tables (for each verb) that you can use to create the API specification that fits the given API (posted on Blackboard). To see an example for each Verb, see the result for the Server-side homework week 1.

Instead of this document and templates, you can use other tools to create the API specification as well. An example of such a tool is the Swagger Editor (https://editor.swagger.io/).

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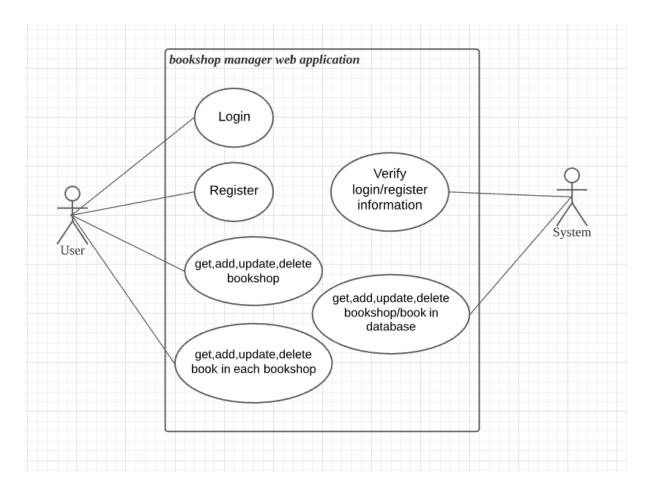
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1. Class diagram



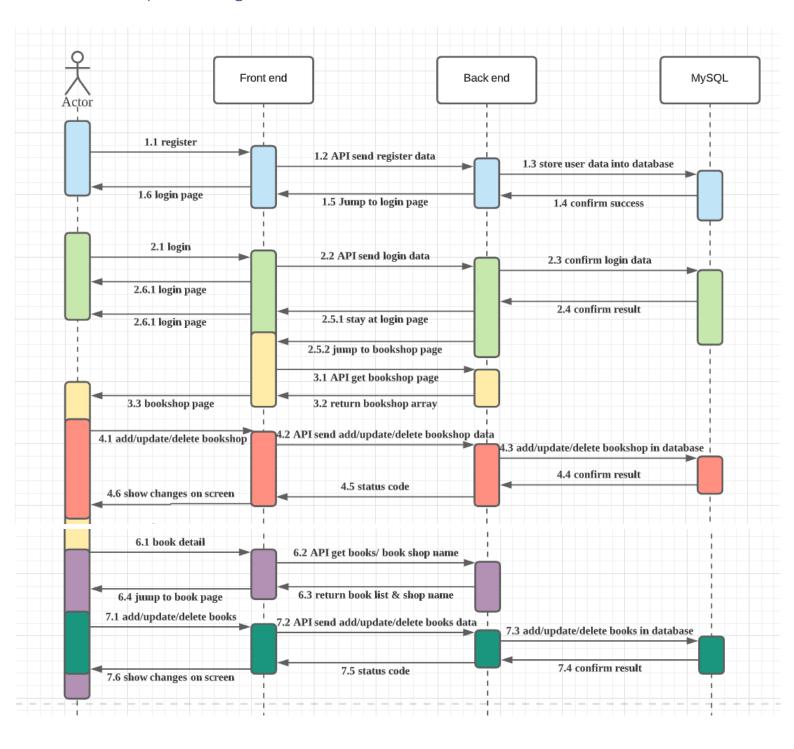
This web application is called "Bookshop Manager". Its purpose is to help bookshop managers manage their book shops. Considering that one manager may have multiple bookshops, the bookshop supports CRUD (Creating, Reading, Updating and Deleting bookshop). What's more, the manager can also manage the books in each shop and support CRUD (Creating, Reading, Updating and Deleting books). One user can register for multiple bookshops, and each bookshop contains many books. Each bookShop has a label for the user, and each book has a label for the bookShop. Also, in order to make it more real, the bookshop changes will affect the book. For example, when you delete the bookshop, all the books in that bookshop will also be deleted at the same time.

2. User diagram

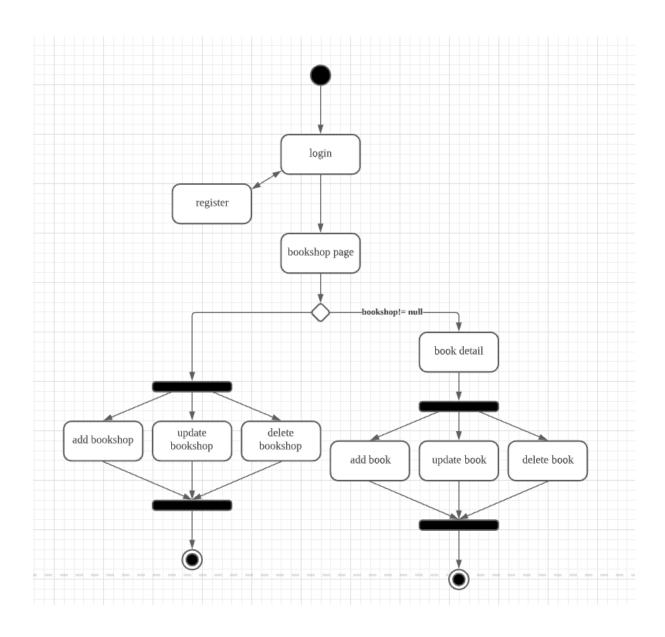


The main functions of user are login, registration, operation of bookshop (CRUD) and operation of book (CRUD) in each bookshop.

3. Sequence diagram



4. Activity diagram



5. GET requests

name of required parameters.

Add your requests here. Copy-paste the template for each different request.

GEI /In	GET /Index					
To the login page						
Parameters:	Name	Туре		Desc	cription	
Add a * to the						
name of						
required						
parameters.						
Responses:	Code	Descr	iption / exa	if successful		
	return "index";	Jump	to login pag	ge.		
		-		-		
	•					
GET /re To the registe	e gister r page					
Parameters:	Name	Ту	pe	Desc	cription	
Add a * to the						
name of						
required						
parameters.						
Responses:	Code Description / exa		exam	ple if successful		
			Jump to register page			
	-1					
GET /ar	oi/getBooksShops					
Get bookshops list from backend.						
Parameters:	Name		Туре		Description	
Add a * to the						

Responses:	Code	Description / example if successful
	return showUserShop;	If successful, return a bookshops list.

GET /bc	GET /bookShops					
Jump booksho	Jump bookshops page.					
Parameters:	Name	Туре	Description			
Add a * to the name of required parameters.						
Responses:	Code	Description / example if successful				
-	return "BookShop";	Jump to bookshop page				

GET /bo	okShops/update/{id}					
Jump update	Jump update bookshops page.					
Parameters:	Name	Type	Description			
Add a * to the name of	id*	path	Which bookshop need to be update			
required parameters.						
Responses:	Code	Description / example if successful				
	return "UpdateBookShop";	Jump to	update book shop page.			

GET /a	ddBookShop					
Jump add boo	Jump add bookshops page.					
Parameters:	Name	Type	Description			
Add a * to the name of	id*	path	Which bookshop need to be update			
required parameters.						
Responses:	Code	Descript	ion / example if successful			
	return "AddBookShop";	Jump to	add book shop page.			

GET {	id}/books					
Jump to book page						
Parameters	: Name	Туре	Description			
Add a * to th name of required	e id*	path	Which bookshop's book page, this id is bookshop id.			
parameters.						
Responses:	Code	Descripti	on / example if successful			
	return "Book";	Jump to t	that bookshop's book page.			

GET /bd	ooks/getShopName					
Get bookshop	Get bookshop name ,show it on book page title.					
Parameters:	Name	Туре	Description			
Add a * to the name of required parameters.						
Responses:	Code	Descri	ption / example if successful			
	return shopName+";"+shopId;	Return the bookshop name +id, which corresponding to this book page.				

GET /ad	ldBook		
Jump to add b	ook page		
Parameters:	Name	Туре	Description
Add a * to the		7.	·
name of			
required			
parameters.			
Responses:	Code	Descri	iption / example if successful
Поротось	return "AddBook";		to add book page
	retain riadbook ;	361116	to add book page
GET /ap	pi/getBooks		
,	oks in one bookshop		
		T	Description.
Parameters:	Name	Туре	Description
Add a * to the			
name of			
required			
parameters.			
Responses:	Code	Descri	ption / example if successful

GET	/up	date/{id}/updateBooks		
Jump upd	ate b	ook page.		
Paramete	rs:	Name	Туре	Description
Add a * to name of required parameters		id*	path	Which book need to be update
Responses:		Code return "UpdateBook";		ption / example if successful to update book page.

Return a list of book

return showBooks

6. POST requests

Add your requests here. Copy-paste the template for each different request.

Template POST table:

POST /in	ndex/confirm				
After clicking the login button, confirm the user login data with data in database.					
Parameters:	Name	Туре	Description		
Add a * to the	Email*	body	User login email data		
name of	Password*	body	User login password data		
required					
parameters.					
Responses:	Code	Description / e	xample if successful		
	return	If login success,	, the login data is consistent with		
	"redirect:/bookShops";	that in the data	base, jump to bookshop page.		
	Return	If login failed, stay at login page.			
	"redirect:/index";				
			·		

POST /re	egister/add		
After clicking	the register button	, get the user's	registration data
Parameters:	Name	Туре	Description
Add a * to the	Email*	body	User register email data
name of	password*	body	User register password data
required			
parameters.			
Responses:	Code	Description /	example if successful
	return "index";	If register success ,return login page. If register failed, stay at register page.	
	Return		
	"Register";		
l			
l			

POST /ap	i/addBookshop		
Add a booksho	р		
Parameters:	Name	Туре	Description
Add a * to the	shopName*	body	BookShop name
name of	employeeNum*	body	BookShop employee number
required	address*	body	Bookshop address
parameters.	phoneNumber*	body	PhoneNumber
Responses:	Code	Description / exa	mple if successful
	return "200";	If add success, return status code: 200 If add failed, return status code: 500	
	return "500";		

POST /ap	oi/addBook		
Add a book			
Parameters:	Name	Туре	Description
Add a * to the	bookName*	body	Book name
name of	stock*	body	Book stock, location
required	price*	body	Book price
parameters.	category*	body	Book category
	description*	body	Book description
Responses:	Code	Description / exa	ample if successful
F	Return shop_id	If success, return the id of the bookshop where this book is located If add failed, return status code: 500	
	Return 500		

7. PUT requests

Add your requests here. Copy-paste the template for each different request.

Template PUT table:

PUT /	api/updateBookshop)	
Update the	bookshop informatio	n.	
Parameters:	: Name	Туре	Description
Add a * to the	e shopName*	body	new bookShop name
name of	employeeNum*	body	new bookShop employee number
required	address*	body	new bookshop address
parameters.	phoneNumber*	body	new phoneNumber
Responses:	Code	Description / exa	mple if successful
	return "200";	If update success,	, return status code: 200
	return "406";	If update failed, r	eturn status code: 406

PUT /ap	oi/updateBook			
Update the bo	ok information.			
Parameters:	Name	Туре	Description	
Add a * to the	bookName*	body	New Book name	
name of	stock*	body	New Book stock, location	
required	price*	body	New Book price	
parameters.	category*	body	New Book category	
	description*	body	New Book description	
Responses:	Code	Description / exa	ample if successful	
	Return shop_id	If success, return the id of the bookshop where this book is located		
	Return 406	If update failed,	return status code: 406	

8. DELETE requests

Add your requests here. Copy-paste the template for each different request.

Template PUT table:

DELETE /ap	oi/deleteBooksho	p/{id}	
Delete one bo	okshop		
Parameters:	Name	Туре	Description
Add a * to the name of	id*	path	The bookshop id, which need to be deleted.
required parameters.			
Responses:	Code	Description	/ example if successful
	return "200";	If delete suc	ccess, return status code: 200
	return "406";	If delete fail	ed, return status code: 406

	oi/deleteBook/{id	}	
Delete one bo	OK		
Parameters:	Name	Туре	Description
Add a * to the name of	id*	path	The book id, which need to be deleted.
required parameters.			
Responses:	Code	Description / example if successful	
	return "200";	If delete success, return status code: 200	
	return "406";	If delete failed, return status code: 406	