Dokumen Sistem Informasi Perpustakaan New Generation



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Fakultas Informatika dan Teknik Elektro S1 Sistem Informasi 2020/2021

1. Deskripsi Singkat Proyek

Sistem Informasi Perpustakaan New Generation merupakan suatu media yang digunakan untuk memenuhi kebutuhan user dalam meminjam, mencari dan mengembalikan buku. Sistem ini dapat menyimpan semua data buku, data user, dan data pengembalian buku. Pada Sistem Informasi Perpustakaan ini seorang pengunjung dapat meminjam buku yang diinginkan, dan mengembalikan buku yang dipinjam.

2. Functional Requirement

2.1 Peminjaman buku

Peminjaman buku merupakan kegiatan yang dilakukan oleh user, dimana user yang akan meminjam buku telah terdaftar sebagai anggota perpustakaan. Adapun tujuan adanya sistem informasi perpustakaan new generation, diharapkan kegiatan peminjaman buku ini dapat memudahkan admin dalam melakukan pengisian data-data user yang akan melakukan peminjaman buku. Data-data yang akan diisi adalahid, ISBN, borrow date, title, author dan return date. Setelah data-data tersebut dimasukkan, sistem akan menyimpan data tersebut sehingga akan dicek dan disesuaikan kembali pada pengembalian buku nantinya.

2.2 Pengembalian buku

Pengembalian buku merupakan kegiatan yang dilakukan oleh user, dimana user akan mengembalikan buku yang telah dipinjam dahulu. Pada sistem informasi perpustakaan new generation ini Sistem dapat mengelola pengembalian buku. User dapat mencatat semua transaksi pengembalian buku. User dapat menampilkan no ISBN buku, Borrow date book, Return date book, dan Status Book. User dapat melihat tanggal buku dipinjam dan tanggal pengembalian buku.

2.3 Mengelola data buku

Mengelola data buku merupakan rules yang dimiliki oleh admin. Pada sistem informasi perpustakaan new generation admin dapat mengedit data buku yang ada pada sistem. Data-data yang dimaksud adalah meliputi: ISBN, judul buku, nama buku, pengarang dan juga jenis buku. Keberadaan data buku ini sendiri dapat mempermudah user atau pengunjung dalam mencari buku, dan melakukan peminjaman buku yang dibutuhkan.

2.4 Autentifikasi

• login

Pada sistem informasi perpustakaan new generation agar admin dan user dapat masuk ke dalam system dibutuhkan login terlebih dahulu. Pada saat login, admin dan user harus mengisi email address dan password yang sesuai dengan milik pengguna. Sebelum melakukan login harus dipastikan akun dari pengguna telah terdaftar dan pengguna dapat masuk kedalam system.

logout

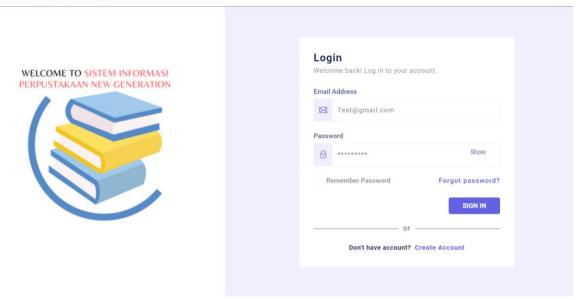
Pada sistem informasi perpustakaan new generation setelah seorang admin atau user melakukan login untuk menggunakan sistem tersebut, maka untuk keluar dari sistem tersebut dilakukan logout pada akun pengguna di dalam sistem.

3. Non Functional Requirement

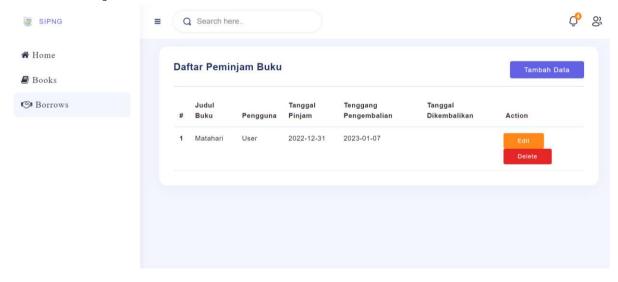
- 3.1 Pengguna mudah memahami tampilan program
- 3.2 User Friendly dan User Experience
- 3.3 Pengguna Mudah Mengoperasikannya
- 3.4 Terdapat validasi untuk mengurangi kesalahan data

4. Tampilan setiap Functional Requirement dan kodenya (NFR yg no 4)

- 4.1 Tampilkan ss website dan Code
 - Autentifikasi

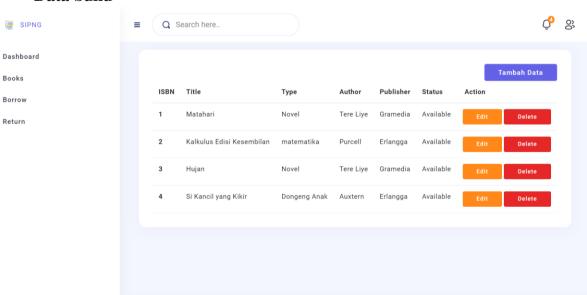


• Peminjaman



```
## Section container conta
```

Data buku



```
<div class="card-body">
                                <h3>Daftar Buku</h3>

<thead>
                                #
ISBN
Title
Type

                               cth scope="col">Type

cth scope="col">Author

cth scope="col">Status

cth scope="col">Status

cth scope="col" class="px-3">Action

                           </thead>

<dd>{{$b->isbn}}
<dd>{{$b->title}}
<do{{$b->title}}
<do{{$b->type}}
<do{{$b->author}}
<do{{$b->author}}
<do{{$b->publisher}}
<do{{$b->publisher}}
<do{{$b->publisher}}
</do>

                                           close=""(froute('book.edit', ['book_id'=>$b->id])}}" class="btn btn-sm btn-warning">Edit</a>
<a onclick="return confirm('Yakin ingin menghapus data?');" href="{{route('book.destroy', ['book_id'=>$b->id])}
                                            Tidak mempunyai akses

@endforeach
```

5. Desain API, rules yang diaplikasikan, payload

5.1 Menambahkan data buku

General Information	n	
Resource URI	:	books/
Business process	:	[FR01] Menambahkan data buku
Tujuan	:	Menambah satu data buku ke dalam collection
Responsible	:	Putri Rachel Geby Tampubolon (@putritampubolon08)
Member		
Applied Rules	:	#1: Forward slash "/"
		#2: No trailing forward slash "/"
		#4: Underscore "-" should be avoided
		#5: Use lowercase
Developer	:	Putri Rachel Geby Tampubolon
Request		

HTTP Verb	:	POST
Authenticated?	:	Yes, with token (anonymous access is not allowed)
User group	:	Admin (otherwise forbidden)
Has payload data	:	Yes (JSON)
Data structure	:	{
		"id": 1,
		"isbn": "1111135",
		"title": "Si Kancil yang Kikir",
		"tipe": "Dongeng Anak",
		"author": "Auxtern",
		"publisher": "Erlangga",
		"status": "Available",
		"created_at": null
		},
		"links": {
		"display_book": "/api/book",
		"add_book": "/api/book/add"
		}
Applied Dules		#10 . Using POST to areate a new resource healt
Applied Rules	:	#19 : Using POST to create a new resource book
Possible Response	:	Response 1
HTTP Status Code	:	201 (Created)
Has payload data	:	Yes (JSON)
Data structure	:	{
		"status": true,
		"message": "Berhasil menambahkan data buku"
		"data": {
		"total": 2,
		"books": [
		{
		"id": 1,
		"isbn": "1111135",
		"title": "Si Kancil yang Kikir"

```
"type": "Dongen Anak",
                                     "author": "Auxtern",
                                     "publisher": "Erlangga",
                                     "status": "Available",
                                     "created at": null,
                                    },
                         }
                         "links": {
                                  "display_book": "/api/book",
                                  "add_book": "/api/book/add"
                                 }
Applied Rules
                         #26: Using 201 (Created) for successful insertion.
Possible Response
                         Response 2
HTTP Status Code
                         404 (Not Found)
Has payload data
                         Yes (JSON)
Data structure
                         {
                                "status": false,
                                "message": "Buku dengan ISBN ini telah tersedia"
                         }
                         "links": {
                                  "display_book": "/api/book",
                                  "add_book": "/api/book/add"
                         #37: 404 (NotFound) indicates that the URI is not valid or simply
Applied Rules
                         does not exist.
HATEOAS Links
                         Add Books
                         POST/http://127.0.0.1:8000/api/books
URI
                         Untuk menambahkan data buku baru
Description
```

5.2 Mengupdate data buku

General Information				
Resource URI	:	books/update-data		
Business process	:	[FR01]Mengupdate data buku		
Tujuan	:	Mengupdate data buku ke dalam collection		
Responsible Member	:	Andri Anjelia Hutapea(@andrianjeliahutapea)		
Applied Rules	:	#1: Forward slash "/" #2: No trailing forward slash "/"		
Developer	:	Andri Anjelia Hutapea		
Request				
HTTP Verb	:	PUT		
Authenticated?	:	Yes, with token (anonymous access is not allowed)		
User group	:	Admin		
Has payload data	:	Yes (JSON)		

Data structure		<pre>"id": 3, "isbn": "1111124", "title": "Hujan", "type": "Novel", "author": "Tere Liyee", "publisher": "Gramedia", "created_at": "2022-12-31 15:19:44", "updated_at": "2022-12-31 15:19:44" }, "links": { "display_book": "/api/book/update" }</pre>
Applied Rules	:	#21: PUT must be used to both create or modify a resource in a store.
Possible Response	:	Response 1
HTTP Status Code	:	201 (Created)
Has payload data	:	Yes (JSON)

Data structure	:	{
		"message": "Berhasil mengupdate data buku",
		"data": {
		"id": 3,
		"isbn": "1111124",
		"title": "Hujan",
		"type": "Novel",
		"author": "Tere Liyee",
		"publisher": "Gramedia",
		"created_at": "2022-12-31 15:19:44",
		"updated_at": "2022-12-31 15:19:44"
		},
		"links":{
		"display_book": "/api/book",
		"update_book": "/api/book/update"
		}
		}
Applied Rules	:	#26: 201(Created) indicates that a resource is successfully created
Possible Response	:	Response 2
HTTP Status Code	:	404 (Not Found)

Has payload data	:	Yes (JSON)
Data structure	:	<pre>{ "status": false, "error_message": "Update data buku gagal", "links": { "display_book": "/api/book", "update_book": "/api/book/update" } }</pre>
Applied Rules	:	#34: 400(BadRequest) indicates a general failure that is caused by the consumer.
HATEOAS Links	:	Update data books
URI	:	PUT/http://127.0.0.1:8000/api/books
Description	:	Untuk mengupdate data buku.

5.3 Menghapus data buku

General Information			
Resource URI	:	book/destroy-book	
Business process	:	[FR01] Menghapus data buku	
Tujuan	:	Menghapus satu data buku ke dalam collection	
Responsible Member	:	Nadya Dioranta Tambunan (@Nadya06)	

Applied Rules	:	#1: Forward slash "/" #2: No trailing forward slash "/" #4: Underscore "-" should be avoided #5: Use lowercase
Developer	:	Nadya Dioranta Tambunan
Request	<u> </u>	<u> </u>
HTTP Verb	:	DELETE
Authenticated?	:	Yes, with token (anonymous access is not allowed
User group	:	Admin (otherwise forbidden)
Has payload data	:	Yes (JSON)
Data structure		<pre>{ "data": { "isbn": "1111135", "title": "Si Kancil yang Kikir", "type": "Dongeng Anak", "author": "Auxtern", "publisher": "Erlangga", "status": "Available", "created_at": null }, "links": { "display_data": "/api/book } }</pre>
Applied Rules	:	#23: DELETE should be used to remove a data make it unavailable.

Possible Response	:	Response 1
HTTP Status Code	:	200 (Ok)
Has payload data	:	Yes (JSON)
Data structure	:	{
		"message": "Delete data successfully",
		"links": {
		"display_data": "/api/book",
		"delete_data": "/api/book/delete"
		}
		}
Applied Rules	:	#25: 200(OK) indicates that the request is completely executed without problems.
Possible Response	:	Response 2
HTTP Status Code	:	400 (Bad request)
Data structure	:	{ "error_message": "Delete data failed", "links": { "display_book": "/api/book", "
		"develop_book": "/api/book/develop",
		"manage_book": "/api/book/manage" }
		}
Applied Rules	:	#37: 404(NotFound) indicates that the URI is not valid or simply does not exist.
HATEOAS Links	:	Delete data book
URI	:	DELETE/http://127.0.0.1:8000/api/books

Description : This link will direct the user to the delete data book.	Description
---	-------------

5.4 Mengupdate peminjaman buku

General Informatio	n	
Resource URI	:	borrow/edit{id}
Business process	:	[FR02] Mengupdate data peminjaman buku
Tujuan	:	Mengubah status buku menjadi <i>not available</i> di <i>store</i>
Responsible	:	Siska Manullang (@SiskaManullang)
Member		
Applied Rules	:	#1: Forward slash "/"
		#2: Underscore "-" should be avoided
		#3: Use lowercase
D 1		G: 1 M 11
Developer	:	Siska Manullang
Request		DIVE
HTTP Verb	:	PUT
Authenticated?	:	Yes, with token (anonymous access is not allowed)
User group	:	Admin (otherwise forbidden)
Has payload data	:	Yes (JSON)
Data structure	:	{
		"borrow_id": "1"
		_
		},
		"links": {
		"update status": "/borrow/ edit{id}"
		1
		}
Applied Rules	:	#21: PUT must be used to both create or modify a resource in a store
Possible Response	:	Response 1
HTTP Status Code	•	201 (Created)
Has payload data	•	Yes (JSON)
Data structure	:	{
		"status": true,
		"message": "status changed successfully!"
		"data": {
		"id": 1,
		"isbn": "1111135",
		"borrow date": "31-12-2022",
		00110 W date 1 31 12 2022 ,

		"return date": "06-01-2023",		
		"status": "Borrowed",		
		"created_at": null		
		}		
Applied Rules	:	#26: Using 201 (Created)		
Possible Response	:	Response 2		
HTTP Status Code	:	404 (Not Found)		
Has payload data	:	Yes (JSON)		
Data structure	:	{		
		"status": false,		
		"message": "not exist because book is being borrowed"		
		}		
Applied Rules	:	#37: 404 (NotFound) indicates that the URI is not valid or simply		
		does not exist.		
HATEOAS Links	:	Add Books		
URI	:	POST/http://127.0.0.1:8000/api/borrow		
Description	:	Untuk mengubah status buku		

5.5 Menghapus data peminjaman buku

General Informatio	n				
Resource URI	:	borrow/delete-data{id}			
Business process	:	[FR02] Menghapus data peminjaman buku			
Tujuan	:	Menghapus satu data peminjaman buku pada collection fitur			
Responsible	:	Nemnem Sihombing (@nemnemsihombing35)			
Member					
Applied Rules	:	#1: Forward slash "/"			
		#2: No trailing forward slash "/"			
		#4: Underscore "-" should be avoided			
		#5: Use lowercase			
Developer	:	Nemnem Sihombing			
Request					
HTTP Verb	:	DELETE			
Authenticated?	:	Yes, with token (anonymous access is not allowed)			
User group	:	Admin (otherwise forbidden)			
Has payload data	:	Yes (JSON)			
Data structure	:	{			
		· ·			
		1			
		"borrow_id": "1"			
	},				
		J, ,			

		"links": {		
		"display data": "/api/data",		
		"delete_data": "/api/data/delete"		
		}		
		}		
Applied Rules	:	#23: DELETE should be used to remove a data or to make it unavailable		
Possible Response	:	Response 1		
HTTP Status Code	:	200(OK)		
Has payload data	:	Yes (JSON)		
Data structure	:	{		
		"message": "Delete data success",		
		"links": {		
		"display_data": "/api/data",		
		"delete_data": "/api/data/delete"		
		}		
		}		
Applied Rules	:	#25: 200(OK) indicates that the request is completely executed		
D 111 D		without problems		
Possible Response	:	Response 2		
HTTP Status Code	:	400(Bad Request)		
Has payload data	:	Yes (JSON)		
Data structure	:	{ "error_message": "Delete data failed",		
		"links": {		
		"develop_return":"/api/return/develop",		
		"manage_return":"/api/return/manage"		
		}		
		}		
Applied Rules	:	#37: 404 (NotFound) indicates that the URI is not valid or simply does not exist.		
HATEOAS Links	:	Delete Books return data		
URI	:	POST/http://127.0.0.1:8000/api/return		
Description	:	Untuk menghapus status peminjaman buku		
_ esemption	•	mengimpao omisio penninjaman osita		

5.6 Mengupdate data pengembalian buku

General Informatio	n				
Resource URI	:	borrow/edit{id}			
Business process	:	[FR03] Mengupdate data peminjaman buku			
Tujuan	:	Mengubah status buku menjadi <i>available</i>			
Responsible	:	Nadya Dioranta Tambunan (@Nadya06)			
Member	•	Nadya Diotanta Tambunan (@Nadya00)			
Applied Rules	:	#1: Forward slash "/"			
Applied Rules	•	#2: Underscore "-" should be avoided			
		#2. Officerscore - should be avoided			
		#3: Use lowercase			
D1		Nadaa Diamata Tambanan			
Developer	:	Nadya Dioranta Tambunan			
Request		DI IO			
HTTP Verb	:	PUT			
Authenticated?	:	Yes, with token (anonymous access is not allowed)			
User group	:	Admin (otherwise forbidden)			
Has payload data	:	Yes (JSON)			
Data structure	:	{			
		"id": 1,			
		"isbn": "1111111",			
		"borrow date": "31-12-2022",			
		"return date": "06-01-2023",			
		"status": "Not Available" },			
		"links": {			
		"update status": "/return/ edit{id}"			
		}			
Applied Rules	:	#21: PUT must be used to both create or modify a resource in a store			
Possible Response	:	Response 1			
HTTP Status Code	:	201 (Created)			
Has payload data	:	Yes (JSON)			
Data structure	:	{			
		"status": true,			
		"message": "status changed successfully!"			
		"data": {			
		"id": 1,			
		"isbn": "1111135",			
		"borrow date": "31-12-2022",			

```
"return date": "06-01-2023",
                                   "status": "Returned",
                                   "created_at": null
                         "links": {
                              "develop_return":"/api/return/develop",
                              "manage_return":"/api/return/manage"
                                }
                         }
                        #26: Using 201 (Created)
Applied Rules
Possible Response
                         Response 2
HTTP Status Code
                         404 (Not Found)
Has payload data
                         Yes (JSON)
Data structure
                         {
                                "status": false,
                                "message": "Return a book failed",
                                "links": {
                                     "develop_return":"/api/return/develop",
                                     "manage_return":"/api/return/manage"
                                       }
                         }
Applied Rules
                         #37: 404 (NotFound) indicates that the URI is not valid or simply
                         does not exist.
HATEOAS Links
                         Add Books
                         POST/http://127.0.0.1:8000/api/return
URI
                         Untuk menghapus status pengembalian buku
Description
```

6. Implementasi API dan potongan code

7. Test Cases

7.1 Menambahkan data buku

Test ID	NRF01-01-API

FR/NFR ID	NFR02 : Add Book
Test Name	Add book data according to the ISBN entered
Objective	To ensure that books can be added to the system
Description	This mechanism is part of adding book data to the book collection in the database
Preconditio n	The user has login
Date	31 Desember 2022
Tester	Nemnem Sihombing
Programme r	Lydia Tesalonika Harianja

Testing Scenario

- 1. Set the target URL (/users/authenticate).
- 2. Set the request method to POST.
- 3. Set a JSON-formatted data with the given configuration and send it.

Evaluation Criteria

- 1. All data in the database has been successfully added;and
- 2. The given credentials are matched with the stored data.

ID	Input	Expected	Actual	Verdict
		Behavior	Behavior	

NFR01-01- API-01	Fill in the URI id http://localhost:8000/api/books and add book data: isbn: "1111135" title": "Si Kancil yang Kikir" tipe: "Dongeng Anak" author: "Auxtern" publisher": "Erlangga"	Response status code 201 (created) and in JSON format containing message: "Successfull y added data"	Displays the response status code 201 (created) and in JSON format containing the message: "Successfull y added data"	[x] passed [] failed
NFR01-01- API-02	Fill in book data with previously available data such as ISBN data isbn: "1111135" title": "Si Kancil yang Kikir" tipe: "Dongeng Anak" author: "Auxtern" publisher": "Erlangga"	Displays a response status 404 (not found) and in JSON format containing the message: "This book with ISBN is available"	Displays a response status 404 (not found) and in JSON format containing the message: "This book with ISBN is available"	[x]passe d [] failed
NFR01-01- API-03	Adding book data with an incorrect format such as ISBN is not added	Will display a response status code 400 (Bad REQUEST) with JSON format and contains an incorrect data format message	Will display a response status code 400 (Bad REQUEST) with JSON format and contains an incorrect data format message	[x] passed [] failed

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Successfully added data and Testing went smoothly.

7.2 Mengupdate data buku

Test ID	NFR01-02-API
FR/NFR ID	NFR02 – Update Book
Test Name	Update book data in the Book database
Objective	To ensure that previously entered book data can be updated
Description	This test is part of updating the book data that was previously added. This test is used to test and ascertain whether the user is able to update any book data in the system and ensure that the changed data is appropriate.
Precondition	There is book data in the database
Date	31 Desember 2022
Tester	Agnes Marpaung
Programmer	Siska Manullang
T4: C	

Testing Scenario

- 1. Set the target URI (/books//Update-book)
- 2. Set the request method to PUT.
- 3. Update Book

Evaluation Criteria

1. Updating all data in the book database has been successfully stored in the website database.

ID	Input	Expected Behavior	Actual Behavior	Verdic t
NFR01-02- API-01	Correct Input: { "id": 3, "isbn": "1111124", "title": "Hujan", "type": "Novel", "author": "Tere Liyee", "publisher": "Gramedia", "created_at": "2022-12-31 15:19:44", "updated_at": "2022-12-31 15:19:44" },	Displays response status code 201 (Created) in JSON format containing the message: "Successfully changed data"	Displays the response status code 201 (Created) in JSON format and an output message in JSON containing: "Successfully Changed data"	[x] passed [] failed

NFR01-02- API-02	Incorrect Input: { "id": 3, "isbn": "1111124", "title": "Hujan", "type": "Novel", "author": "Tere Liyee", "publisher": "Gramedia", "created_at": "2022-12-31 15:19:44", "updated_at": "2022-12-31 15:19:44"	A status code 404 (Not Found) response will appear in JSON format and contains the message: "Book data not available"	,	[x] passed [] failed
NFR01-02- API-03	Correct Format: { "isbn": "1111124", "title": "Hujan", "type": "Novel", "author": "Tere Liyee", "publisher": "Gramedia",	A response status code 400 (Bed Request) will be displayed in JSON format and contains the message: "Incorrect data format"	response status code 400 (Bed Request) in JSON format and contains the message: "Data	[x] passed [] failed

	"created_at":		
	"2022-12-31		
	15:19:44",		
	"updated_at":		
	"2022-12-31		
	15:19:44"		
	},		
Notes			

Successfully added data and Testing went smoothly.

7.3 Menghapus data buku

Test ID	NFR01-03-API
FR/NFR ID	NFR02: Destroy Book
Test Name	Destroy Book
Objective	To Ensure that book can be deleted
Description	This test aims to ensure that the system can delete books that are already stored in the system.
Precondition	Book was already in the system
Date	31 Desember 2022

Tester	Winda Sari ButarButar
Programmer	Niver Titi Sibuea

Testing Scenario

- 1. Set the target URI (/books//destroy-book)
- 2. Set the request method to Delete.
- 3. delete book

Evaluation Criteria

- 1. Book successfully deleted
- 2. Data is updated in the database

ID	Input	Expected Behavior	Actual Behavior	Verdict
NFR01-03-API- 01	Add book data along with the ID of the book to be deleted	A 200-based response with a JSON-formatted payload contains the authenticated user.	returns status code 200 (Ok) in JSON format containing the message " Successfully deleted data"	[x] passed [] failed
NFR01-03-API- 02	Delete a previously deleted book	A 404-based response with a JSON-formatted payload contains "Book data is not available" message.	A 404-based response with a JSON-formatted payload contains "Book data is not available" message.	[x] passed [] failed

NFR01-03-API-	Delete data	Displaying a 400	Displaying a 400	[x] passed			
			1 , 0	_			
03	with improper	Bad Request	Bad Request	[] failed			
	formatting	Response Code	Response Code				
		Containing the	Containing the				
		Message "Data	Message "Data				
		Format Is	Format Is				
		Incorrect"	Incorrect"				
Notes							
Successfully added data and Testing went smoothly.							
ľ	buccessiany added data and resums went smoothly.						

7.4 Mengupdate peminjaman buku

Test ID	NFR02-01-API
FR/NFR ID	NFR02 – Update Book borrowing
Test Name	update the borrowing status of books in the database
Objective	To ensure that the book borrowing has been successful and the book data has been updated
Description	This test is part of the borrowing of books that have been carried out, This test is useful to ascertain whether the data of the borrowed book has been updated its status in the system to the status of 'borrowed'.
Precondition	There is book data in the database
Date	31 Desember 2022
Tester	Lydia Tesalonika
Programmer	Siska Manullang
Testing Scenar	io

- 1. Set the target URI (/book borrowing//update-book borrowing)
- 2. Set the request method to PUT.
- 3. Update Book

Evaluation Criteria

1. The status of the borrowing book update has been successfully saved in the database.

ID	Input	Expected Behavior	Actual Behavior	Verdict
NFR02-01- API-01	Inputting data on the book to be borrowed Correct Input: "borrow_id": "1" },	Displays response status code 201 (Created) in JSON format containing the message: "Successfully borrowing book"	Displays the response status code 201 (Created) in JSON format and an output message in JSON containing: "Successfully borrowing book"	[X] passed [] failed

API-03 bo				
}	nputting data on the book to be borrowed incorrect Input: "id": "1"	A status code 400(Bad Request) response will appear in JSON format and contains the message: "Error message/ Incorrect data format"	Displays the response status code 400 (Bad Request) in JSON format and contains the message: "Error message/Incorrect data format"	[X] passed [] failed
Notes				

7.5 Menghapus data peminjaman buku

Test ID	NFR02-02-API
FR/NFR ID	NFR03: destroy book borrow data
Test Name	Destroy book borrow data
Objective	To Ensure that book borrow data can be deleted
Description	This test aims to ensure that the system can delete book borrow data that are already stored in the system.
Precondition	Book borrow data was already in the system
Date	31 Desember 2022
Tester	Niver Titi Sibuea
Programmer	Siska Manullang

Testing Scenario

- 1. Set the target URI (borrow/delete-data{id})
- 2. Set the request method to Delete.
- 3. delete book borrow data

Evaluation Criteria

- 1. Book borrow data successfully deleted
- 2. Data is updated in the database

ID	Input	Expected Behavior	Actual Behavior	Verdict			
NFR02-02-API- 01	Add book borrow data along with the ID of the book to be deleted	A 200-based response with a JSON-formatted payload contains the authenticated user.	Borrows status code 200 (Ok) in JSON format containing the message " Successfully deleted data"	[x] passed			
NFR02-02-API- 02	Delete a previously deleted data	A 404-based response with a JSON-formatted payload contains "Book data is not available" message.	A 404-based response with a JSON-formatted payload contains "Book data is not available" message.	[x] passed [] failed			
NFR02-02-API- 03	Delete data with improper formatting	Displaying a 400 Bad Request Response Code Containing the Message "Data Format Is Incorrect"	Displaying a 400 Bad Request Response Code Containing the Message "Data Format Is Incorrect"	[x] passed [] failed			
Notes							
Successfully add	Successfully added data and Testing went smoothly.						

7.6 Mengupdate data pengembalian buku

Test ID	NFR03-01-API
FR/NFR ID	NFR03 – Update Book
Test Name	Updating the book return data in the database
Objective	To ensure that previously entered book data can be updated

Description	This test is used to test and ascertain whether the user is able to update any book data in the system and ensure that the changed data is appropriate.				
Precondition	There is book data in t	he database			
Date	31 Desember 2022				
Tester	Gabriel Panggabean				
Programmer	Siska Manullang				
Testing Scenar	rio				
2. Set the r					
Evaluation Criteria					
 Update the success book return data Data is update in database 					
Test Cases					
ID	Input	Expected Behavior	Actual Behavior	Verdict	

NFR03-01- API-01	Correct Input: { "book_id": 1, "isbn": "1111135", "title": "Si Kancil yang Kikir", "tipe": "Dongeng Anak", "author": "Auxtern", "publisher": "Erlangga", },	Displays response status code 201 (Created) in JSON format containing the message: "Successfully changed data"	Displays the response status code 201 (Created) in JSON format and an output message in JSON containing: "Successfully Changed data"	[x] passed [] failed
NFR03-01- API-02	Incorrect Input: { "book_id": 1, "isbn": "1111135", "title": "Si Kancil yang Kikir", "tipe": "Dongeng Anak", "author": "Auxtern", "publisher": "Erlangga", },	A status code 404 (Not Found) response will appear in JSON format and contains the message: "Book data not available"	Displays the response status code 404 (Not Found) in JSON format and contains the message: "Book data not available"	[x] passed [] failed

NFR03-01-	Correct Format:	A response status	Displays the	[x]
API-03	{	code 400 (Bed	response status	passed
	"isbn":	Request) will be	code 400 (Bed	[] failed
	"1111135",	displayed in JSON	Request) in JSON	
	"title": "Si	format and contains	format and	
	Kancil yang	the message: "Incorrect data	contains the message: "Data	
	Kikir",	format"	format is	
	"tipe":		incorrect"	
	"Dongeng			
	Anak",			
	"author":			
	"Auxtern",			
	"publisher":			
	"Erlangga",			
	},			
Notes				
Successfully added data and testing went smoothly				

Refleksi KEL-4:

Dari awal pengerjaan proyek, kelompok kami sudah berusaha dengan semaksimal mungkin dengan harapan hasil yang terbaik.

Kami sudah memberikan pendapat, ide, kreativitas dan logika yang kami miliki pada proyek ini.

Ketika pengerjaan proyek kami memiliki beberapa kesulitan dalam pengerjaan proyek, mungkin adanya miskomunikasi antar anggota tim yang mengakibatkan kami kesulitan dalam menyatukan pendapat kami, dan menemukan solusi atas permasalahan kami.

Ada kalanya kami kesulitan dalam memahami setiap tugas yang diberikan, dan kesulitan dalam pemahaman, pengimplementasian dan pengerjaan proyek.

Kurangnya dalam pendefinisian dan analisis terhadap masalah yang dihadapi, sehingga agak sulit dalam menentukan solusi terhadap masalah yang kami alami dan tidak mengatur waktu mengerjakan proyek dengan baik sehingga terkadang menjadi terburu-buru dalam melakukan submitan.

Saran:

Semoga tahun depan lebih baik lagi dan pembagian kelompoknya lebih baik lagi serta tidak berdasarkan ipk agar yang mahasiswa yang kurang mampu dalam mata kuliah ini dapat diajari oleh temannya yang lebih mampu.

Pembagian Tugas:

Application Developer: Lidya, Gabriel, Siska, Putri

Rest API : Nadya, Andri, Niver

Deployment : Winda, Nemnem, Agnes