

TRƯỜNG ĐẠI HỌC BÁCH KHOA HÀ NỘI

Viện Công nghệ thông tin và Truyền thông

Tài liệu đặc tả yêu cầu phần mềm

(Software Requirement Specification - SRS)

LIBRARY SYSTEM

Môn: Phát triển phần mềm theo chuẩn kỹ năng ITSS

Số nhóm: 06

Danh sách thành viên

Trịnh Thiên Long	:	20142710	Nhóm trưởng
Nguyễn Thăng Long	:	20142685	Thành viên
Nguyễn Phương Nam	:	20143061	Thành viên

Hà Nội, ngày 14 tháng 10 năm 2017

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NỘI DUNG

1. Chuẩn hóa thông số màn hình

→ Kích thước website: rộng 960px, dài tùy ý.

→ Buttons:

- ◆ Sắp xếp theo thứ tự: Cancel - OK, Register - Login
- ◆ Kích thước: cao 50px, dài tùy theo text trong button.
- ◆ Màu sắc: Cancel - màu xám, OK - màu xanh green, nguy hiểm - màu đỏ, khác - màu xanh blue

→ Khung nhập dữ liệu(input text field):

- ◆ Label nằm trên khung input, cách nhau 10px, thẳng lề trái
- ◆ Mỗi trường input cách nhau 25px
- ◆ Khung input cao 50px, dài tùy ý

→ Menu luôn hiển thị trên header mọi trang

→ Title: bắt buộc, mô tả đúng hoạt động của trang.

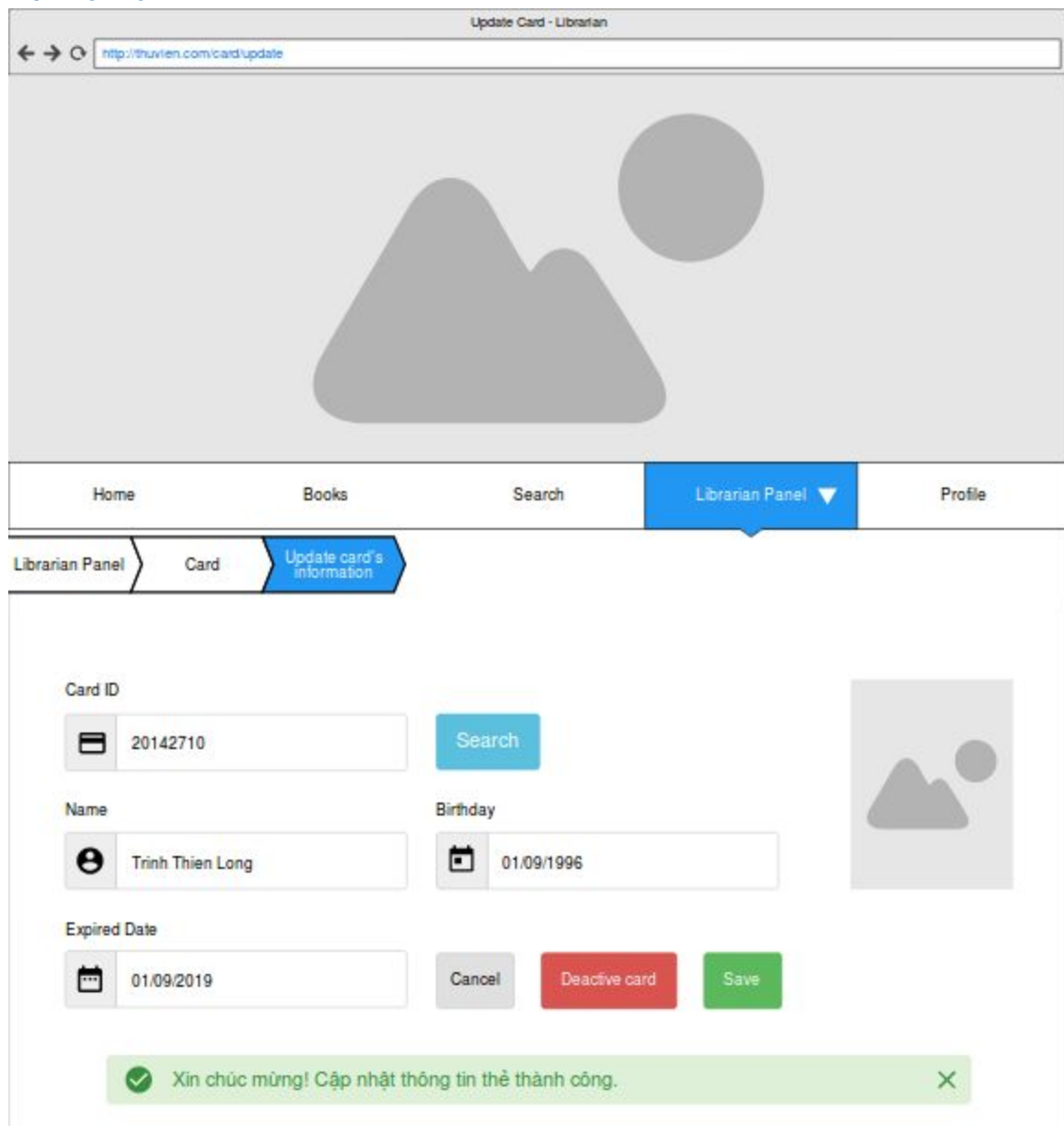
→ Messages:

- ◆ Màu sắc: thành công - green; cảnh báo - màu cam; thất bại, nguy hiểm - màu đỏ, thông tin trợ giúp - màu blue.
- ◆ Vị trí: góc trên bên phải đối với popup message, chính giữa màn hình đối với dialog message.

3. Graphical user interface design and screen specification

3.1. UI01 "Update card's information"

<https://goo.gl/SRWHCB>



Screen specification

Control	Operation	Function
Area for display card information form	initial	
Search button	click	Display card information form
Save button	Click	Save card with new

		information
Deactive card button	Click	Deactive card
Cancel button	Click	Cancel the change

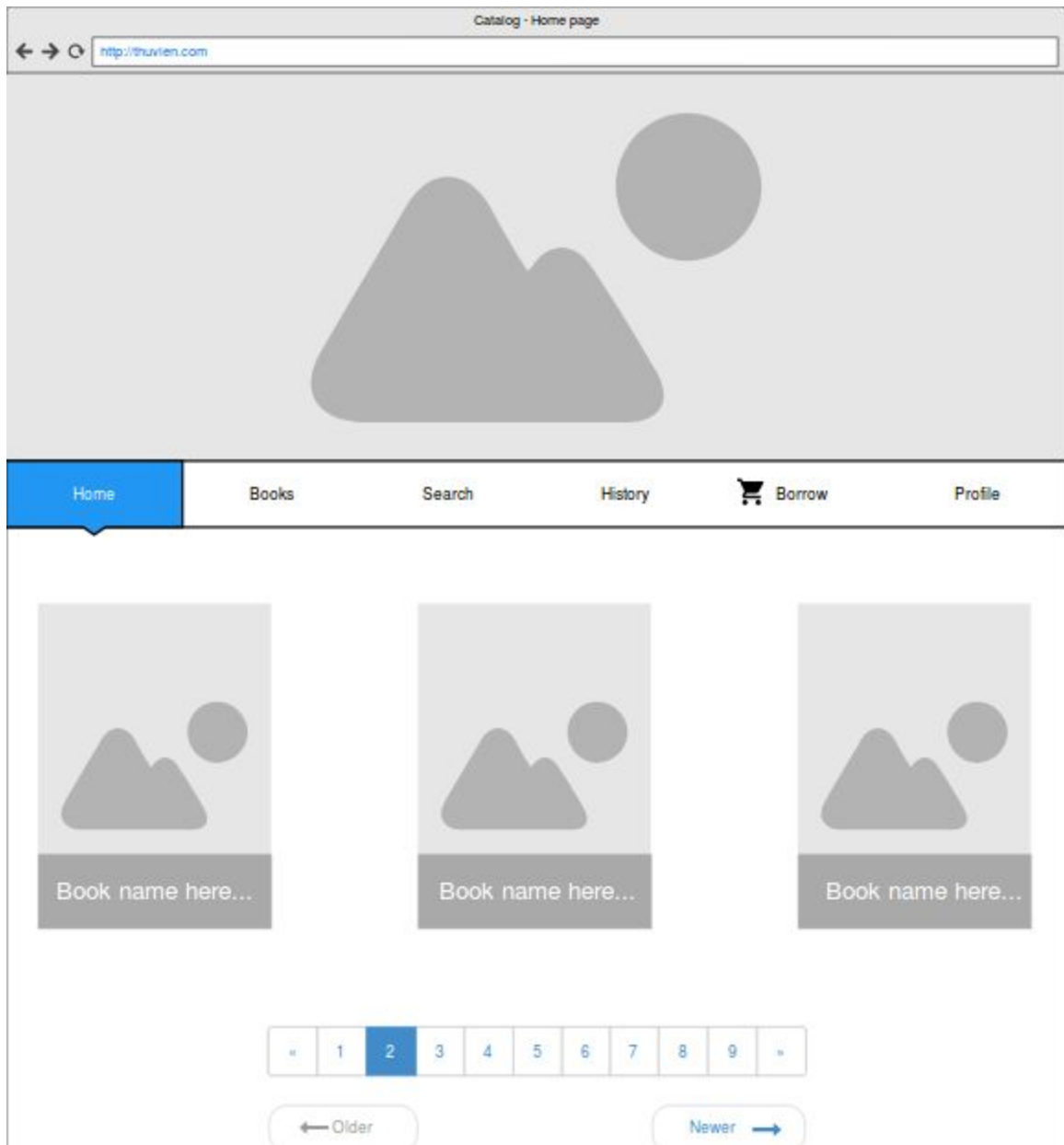
Defining the field attributes

Screen name	Update card			
Item name	Number of digits	Type	Field attribute	Remarks
Card ID	8	number		
Name	50	character		
Expired date	8	Date time		
Birthday	8	Date time		

3.2. UI02 "Register to borrow books"

Link mockups: <https://goo.gl/NWM7xY>

Screen 01: Catalog



Screen specification

Control	Operation	Function
Area for display books cover image	initial	Display Books cover image in library
Older button	click	Jump to previous page
Newer button	Click	Jump to next page
Page 'x' button	Click	Jump to page 'x'
Cover image	click	Link to book detail page

Screen 02: Book details screen



Book name here

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in tempus ut, vehicula eu diam. Pellentesque rhoncus aliquam mattis. Ut vulputate eros sed felis sodales nec vulputate justo hendrerit. Vivamus varius pretium ligula, a aliquam odio euismod sit amet. Quisque laoreet sem sit amet orci ullamcorper at ultricies metus viverra. Pellentesque arcu mauris, malesuada quis ornare accumsan, blandit sed diam.

Register to borrow

Author	Sakamoto
Category	ngôn tình, hài hước, tình cảm
Label	blah blah
Label	blah blah

Screen specification


Control	Operation	Function
Area for display book's information	initial	Display book information
Register to borrow button	click	Add this book to 'borrow list'

Defining the field attributes

Screen name	Book detail			
Item name	Number of digits	Type	Field attribute	Remarks
Book cover image		image		
Book name	100	character		
Description	1000	character		
Author	30	character		
Catergory	100	character		

Screen 03: Confirm the registration


[Home](#) [Books](#) [Search](#) [History](#) [Borrow](#) [Profile](#)



First book name here

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in tempus ut. vehicula eu diam. Pellentesque

Author	Sakamoto
Category	ngôn tình, hài hước, tình cảm
Label	blah blah
Label	blah blah



Second book name here

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla quam velit, vulputate eu pharetra nec, mattis ac neque. Duis vulputate commodo lectus, ac blandit elit tincidunt id. Sed rhoncus, tortor sed eleifend tristique, tortor mauris molestie elit, et lacinia ipsum quam nec dui. Quisque nec mauris sit amet elit iaculis pretium sit amet quis magna. Aenean velit odio, elementum in tempus ut. vehicula eu diam. Pellentesque

Author	Trinh Thien Long
Category	ngôn tình, hài hước, tình cảm
Label	blah blah
Label	blah blah

Cancel

Confirm to register

Screen specification

Control	Operation	Function
Area for display book to be borrowed	initial	Display book to be borrowed
Confirm to register	click	Confirm the registration
Cancel	click	Cancel the registration

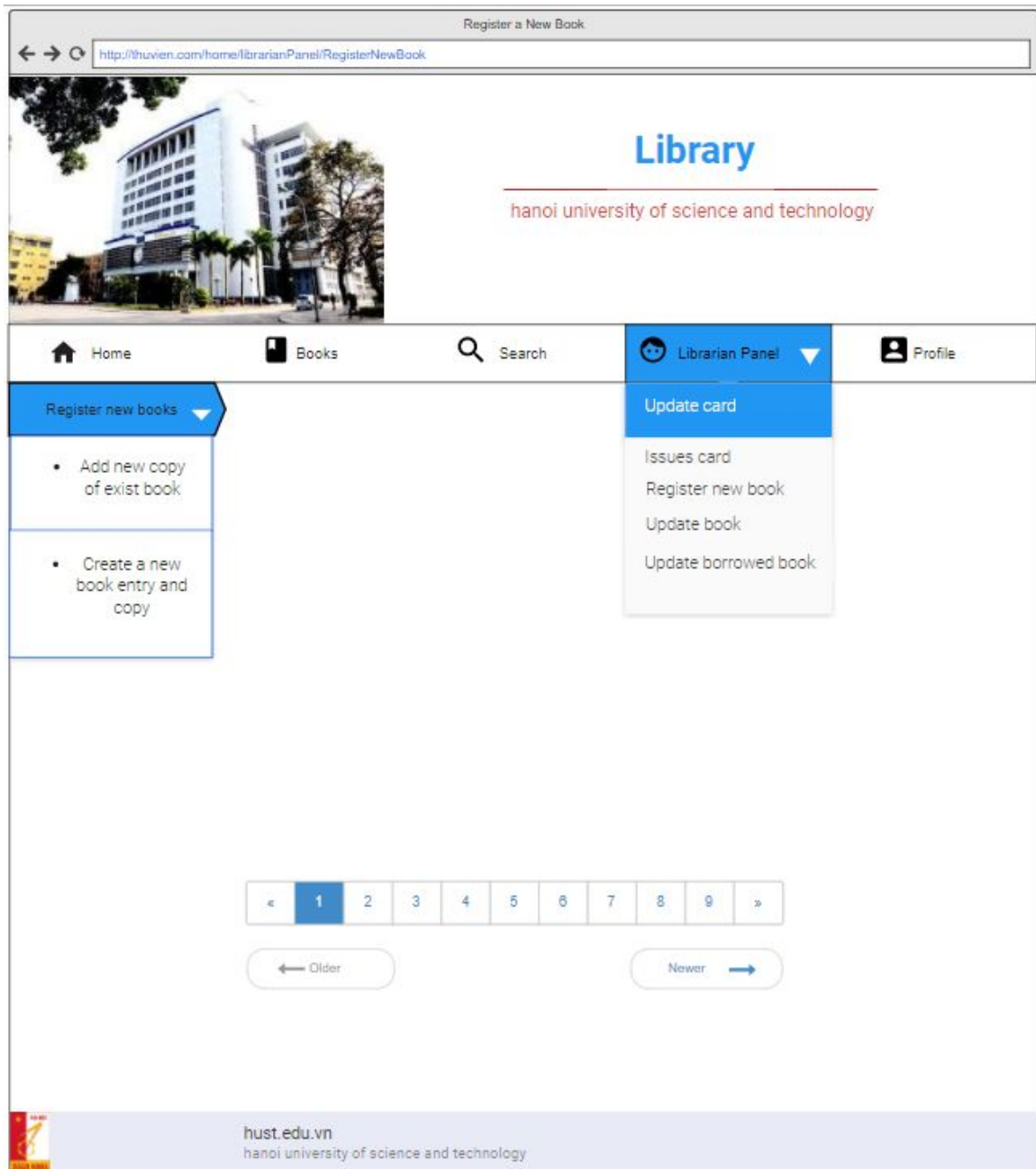
Defining the field attributes

Screen name	Confirm the registration			
Item name	Number of digits	Type	Field attribute	Remarks
Book cover image		image		
Book name	100	character	required	
Description	1000	character	required	
Author	30	character		
Category	100	character		

3.3. UI03 “Register new book”

<https://goo.gl/r54Qme>

Screen 1: Register new book



Screen specification

Control	Operation	Function
Button Librarian panel	click	Display the function of the librarian
Button Update book's infor	click	Go to page "Update book's infor"
Button Register new book	click	Display two additional book functions
Button add new copy of exist book	click	Go to page "add new copy of exist book"
Button create a new book entry and copy	click	Go to page "create a new book entry and copy"
Button Older	click	Go to previous page
Button Newer	click	Goto next page
Button 1,2,3,4...	click	Go to page number 1,2,3,4...

Screen 2: Add new copy of exist book

add New Copy Of Exist Book

http://RegisterNewBook/addNewCopyBookOfExistBook

Library
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Home Books Search Librarian Panel Profile

Register new books Add new copy of exist book

+ Book Number
+Number of new copies
+Type of copy
+Price of Copies

Cancel OK

▼ Number	▼ Title	▼ Type
010001	Nghìn lẻ một đêm	Reference
020001	50 sắc thái	Borrowable
030001	Hồng lâu mộng	Borrowable
040001	Kim bình mai	Reference

< 1 2 3 4 5 6 7 8 9 >

← Older Newer →

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Screen specification

Control	Operation	Function
Table		Display all books in library
Button Librarian panel	click	Display the function of the librarian
Button Register new book	click	Display two additional book functions
Button Older	click	Go to previous page

Button Newer	click	Goto next page
Button 1,2,3,4	click	Goto page number 1,2,3,4
Button Cancel	click	Cancel the registration
Button Ok	click	Submit the registration


Defining the field attributes

Screen name	Add new copy of exist book			
Item name	Number of digits	Type	Field attribute	Remarks
Book number	6	integer	required	
Num ber of new copies		integer	required	
Type of copy	1000	character	required	
Price of copy	30	double	required	

Screen 3 : Create a new book entry and copy

Create a NewBook Entry And Copy

http://RegisterNewBook/CreateNewBookEntryAndCopy



Library
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HomeBooksSearchLibrarian PanelProfile

Register new booksCreate a new book entry and copy

+Title

+Publisher

+ Authors

+Number of new copies

+Type of copy

+Price of Copies


CancelOK

Book

▼ Number	▼ Title	▼ Type
010001	Nghìn lẻ một đêm	Reference
020001	50 sắc thái	Borrowable
030001	Hồng lâu mộng	Borrowable
040001	Kim bình mai	Reference

«123456789»

← OlderNewer →



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Screen specification

Control	Operation	Function
Table		Display all books in library
Button Librarian panel	click	Display the function of the librarian
Button Register new book	click	Display two additional book functions
Button Older	click	Go to previous page
Button Newer	click	Goto next page
Button 1,2,3,4	click	Goto page number 1,2,3,4
Button Cancel	click	Cancel the registration
Button Ok	click	Submit the registration

Defining the field attributes

Screen name	Create a new book entry and copy			
Item name	Number of digits	Type	Field attribute	Remarks
Title	100	character	required	
Publisher	100	character	required	
Author	100	charater	required	
Num ber of new copies		integer	required	
Type of copy	100	character	required	
Price of copy	30	double	required	

3.4. UI04 “Update book’s information”


<https://goo.gl/RKueP7>

Screen : update book’s information

updateBookInformation

← → ↻

http://thuvien.com/home/librarianPanel/Update Book



Library

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Home

Books

Search

Librarian Panel

Profile

Register new books

Update Book

50 sắc thái

+Title : 50 sắc thái

+Publisher : Alpha Books

+Authors : E.L. James

+Number of copies : 1000

+Type of copy : reference

+Price of Copies : 100.000 VNĐ

Cancel

OK


Books

▼ Number	▼ Title	▼ Type
010001	Nghìn lẻ một đêm	Reference
020001	50 sắc thái	Borrowable
030001	Hồng lâu mộng	Borrowable
040001	Kim bình mai	Reference

« 1 2 3 4 5 6 7 8 9 »

← Older

Newer →



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Screen specification

Control	Operation	Function
Table		Display all books in library
Button Librarian panel	click	Display the function of the librarian
Button Register new book	click	Display two additional book functions
Button Older	click	Go to previous page
Button Newer	click	Go to next page
Button 1,2,3,4	click	Go to page number 1,2,3,4
Button Cancel	click	Cancel the registration
Button Ok	click	Submit the Update
Button fix	click	Edit the contents in the corresponding box

Defining the field attributes

Screen name	Update book's information			
Item name	Number of digits	Type	Field attribute	Remarks
Title	100	character	required	
Publisher	100	character	required	
Author	100	charater	required	
Number of new copies		integer	required	
Type of copy	100	character	required	
Price of copy	30	double	required	

3.5. UI05 “Search books”

<https://goo.gl/Fdu7qj>

Screen 01. Search books

Search books

[←](#) [→](#) [↻](#)

Home

Books

Search

History

Borrow

Profile

Search

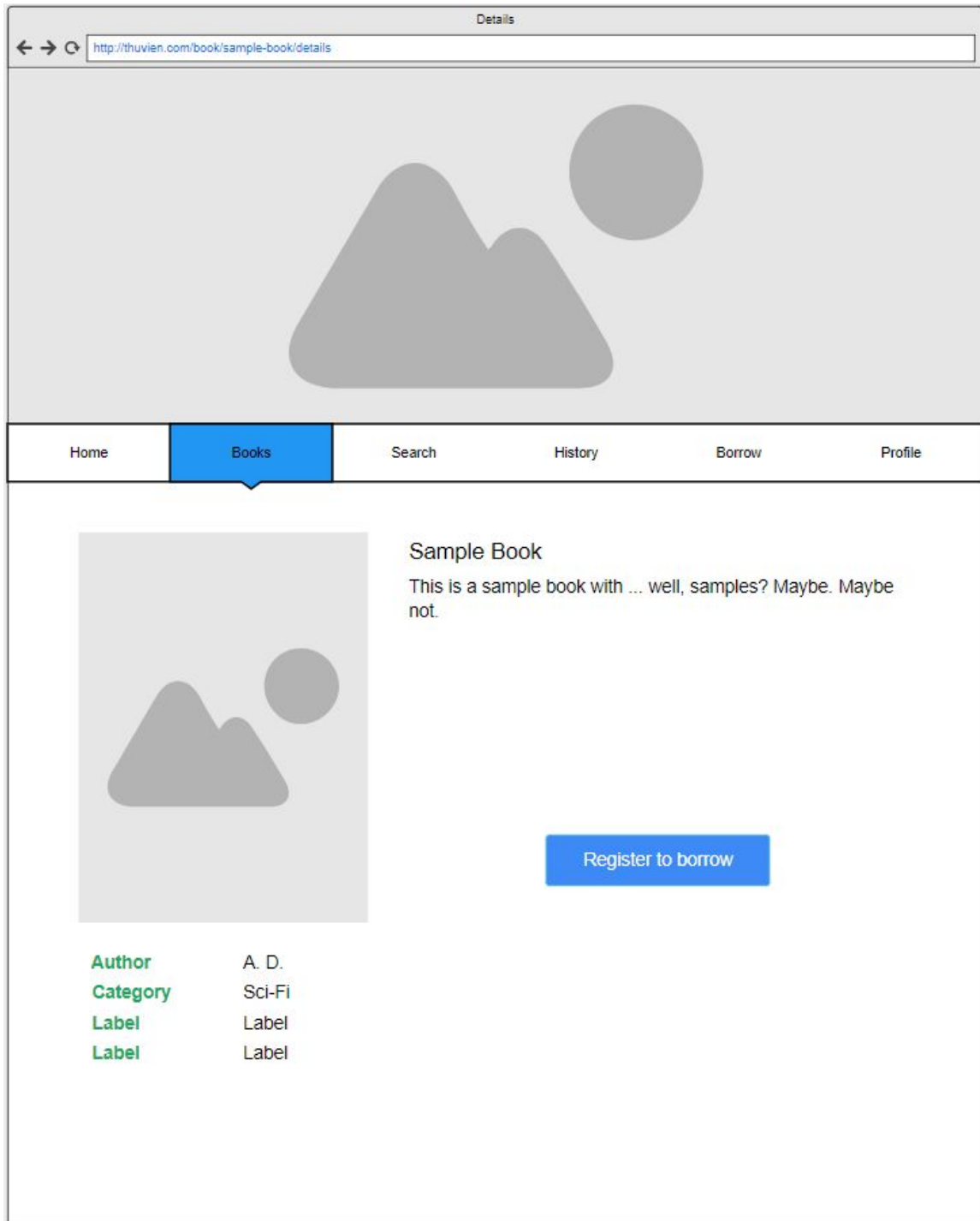
▼ Book No.	▼ Title	▼ Author	▼ Book Type
010001	Sample Book	A. D.	Reference
020001	Sample Sample	Imao guy	Borrowable
010002	Sample 123	Cell 9	Borrowable
030001	The Best Samples	Cell 12	Reference
040002	Samples?	Cell 3	Reference
050001	Samples	Cell 3	Reference

« 1 2 3 4 5 6 7 8 9 »

← Older

Newer →

Screen 02. Book details screen



Screen specification

Control	Operation	Function
Area for displaying books table		
Table row	Click	Go to detail page of the book shown on that row
“Older” button	Click	Go to previous page
“Newer” button	Click	Go to next page
“1,2,3...” button	Click	Go to page 1,2,3,...
Search button	Click	Search for books from database

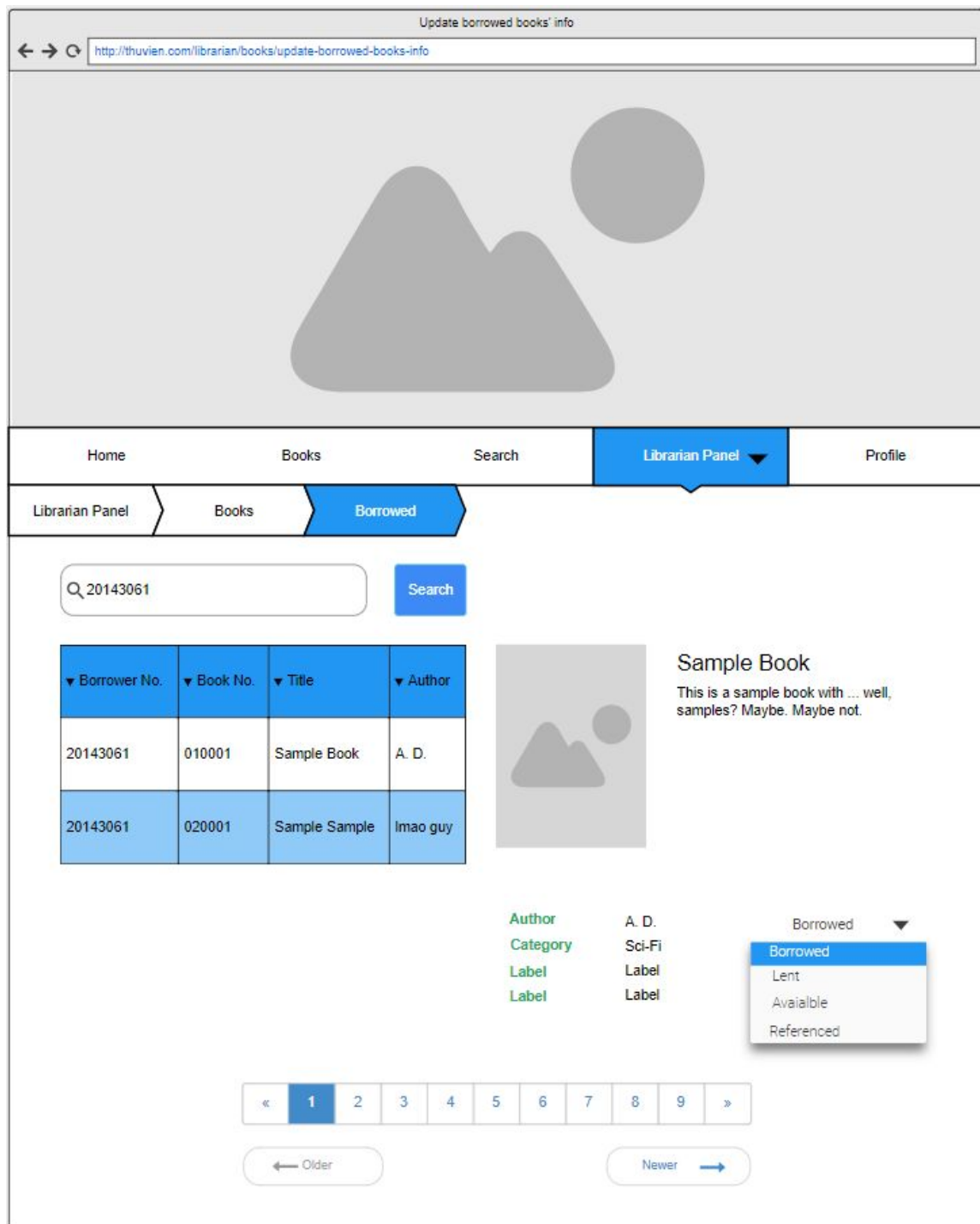
Defining the field attributes

Screen name	Search books			
Item name	Number of digits	Type	Field attributes	Remarks
Book search bar	100	Character		
Book title	100	Character		
Description	1000	Character		
Author	30	Character		
Category	100	Character		

3.6. UI06 “Update borrowed books’ info”

<https://goo.gl/ejGn2v>

Screen 01. Update borrowed books’ info



Screen specification

Control	Operation	Function
Area for displaying books table		
Area for displaying book details		
Area for displaying status dropdown menu		
Search button	Click	Search borrower number for borrowed books
Table row	Click	Go to detail page of the book shown on that row
Status dropdown menu	Click	Change book status
“Older” button	Click	Go to previous page
“Newer” button	Click	Go to next page
“1,2,3...” button	Click	Go to page 1,2,3,...

Defining the field attributes

Screen name	Update borrowed books' info			
Item name	Number of digits	Type	Field attributes	Remarks
Borrower number search bar	100	Number		
Book title	100	Character		
Description	1000	Character		
Author	30	Character		
Category	100	Character		

4. Lịch sử review

Thành viên review	Thành viên được review	Nội dung
Trịnh Thiên Long	Nguyễn Thăng Long	Hiểu sai một số biểu diễn trong Transition diagram khi làm
Trịnh Thiên Long	Nguyễn Phương Nam	Prototype Update borrowed books' info ở Moqup cần tìm theo Borrower Number
Nguyễn Phương Nam	Nguyễn Thăng Long	Dropdown menu ở Moqup cần cuộn lại được thay vì mở sẵn
Nguyễn Thăng Long	Nguyễn Phương Nam	Các bản Moqup cần thêm footer

5. Phân công công việc

Thành viên		Nhóm	Cá nhân
Trịnh Thiên Long	20142710	Quy ước chuẩn hóa thông số màn hình, Vẽ biểu đồ dịch chuyển màn hình.	Thiết kế GUI chức năng "Update card's information" và chức năng "Register to borrow books"
Nguyễn Thăng Long	20142685		Thiết kế GUI chức năng "Update book's information" và chức năng "Register new book"
Nguyễn Phương Nam	20143061		Thiết kế GUI chức năng "Search books" và "Update borrowed books' info"