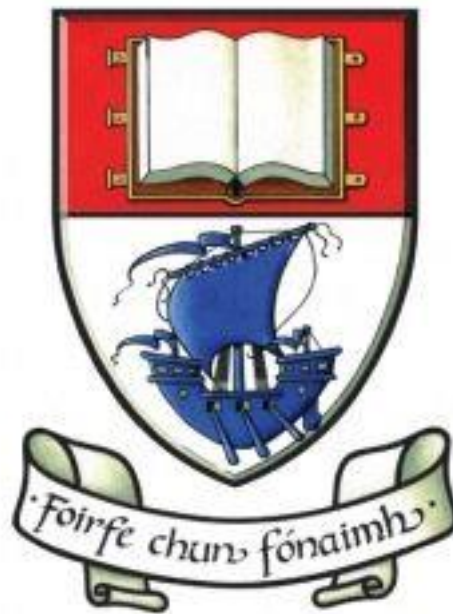


Assignment 1 (React App) Documentation



Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

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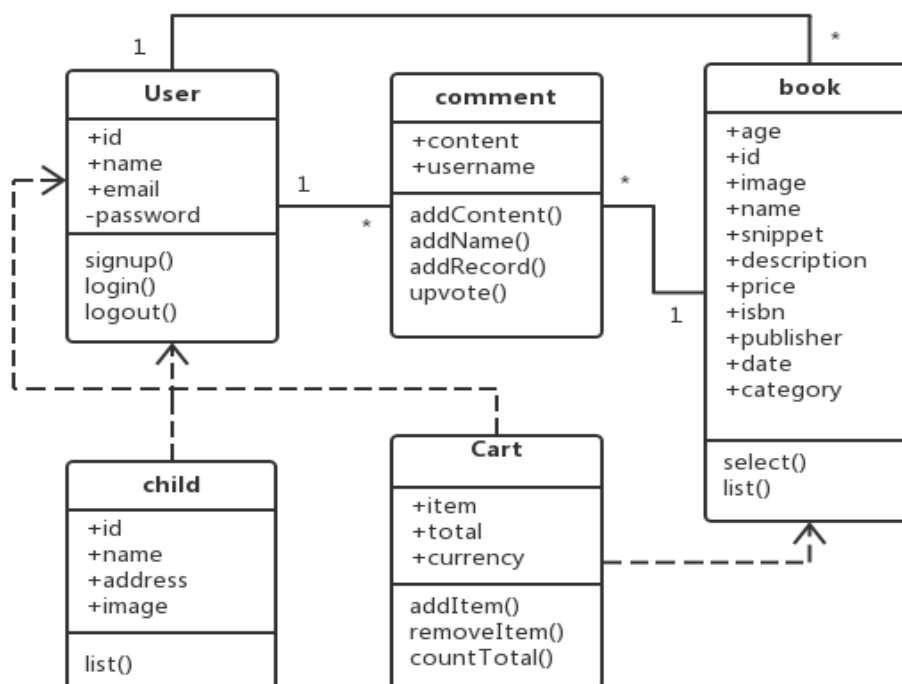
Overview

My app is designed as a charity website which named *as Book Charity*. In this world, a lot of children can not afford their tuition for education, and always live in a remote, poor area as well, but they are so thirsty for learning something, so in my application, user is allowed to donate a second hand book directly to a child who needs help, meanwhile, user also can sell these books, but the income will be donated to some charity organization. Even if the money for a book is not too much, I still think it is meaningful for helping the children all over the world.

User features

- User can sell a second hand book
- User can edit information for the book when sell it and choose a charity organization
- User can donate a second hand book
- User can edit shipping address when donate books
- User can browse the information of children who needs help when donate books
- User can browse a list of books
- User can see the details of a book
- User can add comments for a book
- User can buy a second hand book
- User can add a book to cart and remove it from cart
- User can add payment details and confirm

Data Model Design



The json file for book

```
book-1.json x
1  {
2    "price": 11,
3
4    "description": "Jennifer Worth came from a sheltere
5
6    "id": "book-1",
7    "images": [
8      "img/books/book-1.jpg",
9      "img/books/book-1-1.jpg",
10     "img/books/book-1-2.jpg"
11   ],
12
13   "name": "Call the Midwife",
14
15   "isbn": "9780753823835",
16
17   "publisher": "W&N",
18
19   "date": "3/6/2008",
20
21   "category": "General Biography,Medicine"
22 }
23
```

The json file for user

```
book-1.json x  user.json x
1  {
2    "users": [
3      {
4        "id": 1,
5        "name": "Weitong",
6        "email": "244515121@qq.com",
7        "password": "123456"
8      },
9      {
10       "id": 2,
11       "name": "KAGITO",
12       "email": "kagito@qq.com",
13       "password": "123456"
14     },
15     {
16       "id": 3,
17       "name": "Xia",
18       "email": "jjjwood@qq.com",
19       "password": "123456"
20     }
21   ]
22 }
```

The stubAPI.js file for comments

```
stubAPI.js
1  var _ = require('lodash');
2
3
4  var posts = [
5      {
6          id: 1,
7          content: 'This book is very good.',
8          username: 'Weitong Xia',
9          upvotes: 10
10     },
11     {
12         id: 2,
13         content: 'I hope more children can read this book.',
14         username: 'Elie MacDowell',
15         upvotes: 12
16     },
17     {
18         id: 3,
19         content: 'It is very cheap, I like it!!!',
20         username: 'Tio Plato',
21         upvotes: 12
22     },
23     {
24         id: 4,
25         content: 'I hope I can help more children.',
26         username: 'Randy Orlando',
27         upvotes: 2
28     }
29 ];
```

The data.js file for child

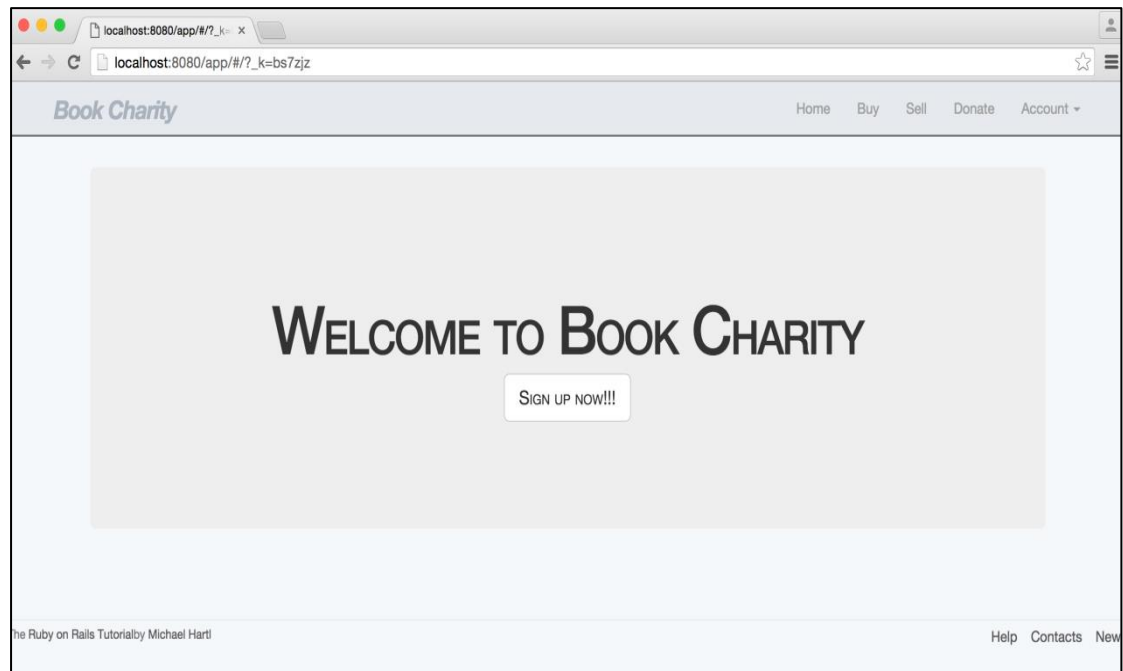
```
book_data.js
1  var allChildren = [
2      {
3          "age": 0,
4          "id": "child-1",
5          "imageUrl": "img/children/child-1.jpg",
6          "name": "Huang Huang",
7          "address": "702-16 Deming Park, Shiji District, Na
8      },
9      {
10         "age": 1,
11         "id": "child-2",
12         "imageUrl": "img/children/child-2.jpg",
13         "name": "Yan Xiao",
14         "address": "No.206 Ninglu Road, Nanjing, Jiangsu,
15     },
16     {
17         "age": 2,
18         "id": "child-3",
19         "imageUrl": "img/children/child-3.jpg",
20         "name": "Dong Lin",
21         "address": "53 Tianhong Park, Dayan District, Sich
22     },
23     {
24         "age": 3,
25         "id": "child-4",
26         "imageUrl": "img/children/child-4.jpg",
27         "name": "Feng Nie",
28         "address": "102-13 Pudong Park, 12 Qiaobei Road, C
29     },
30 ];
31
32 ];
33
34 exports.allChildren = allChildren;
```

The data.js file for book

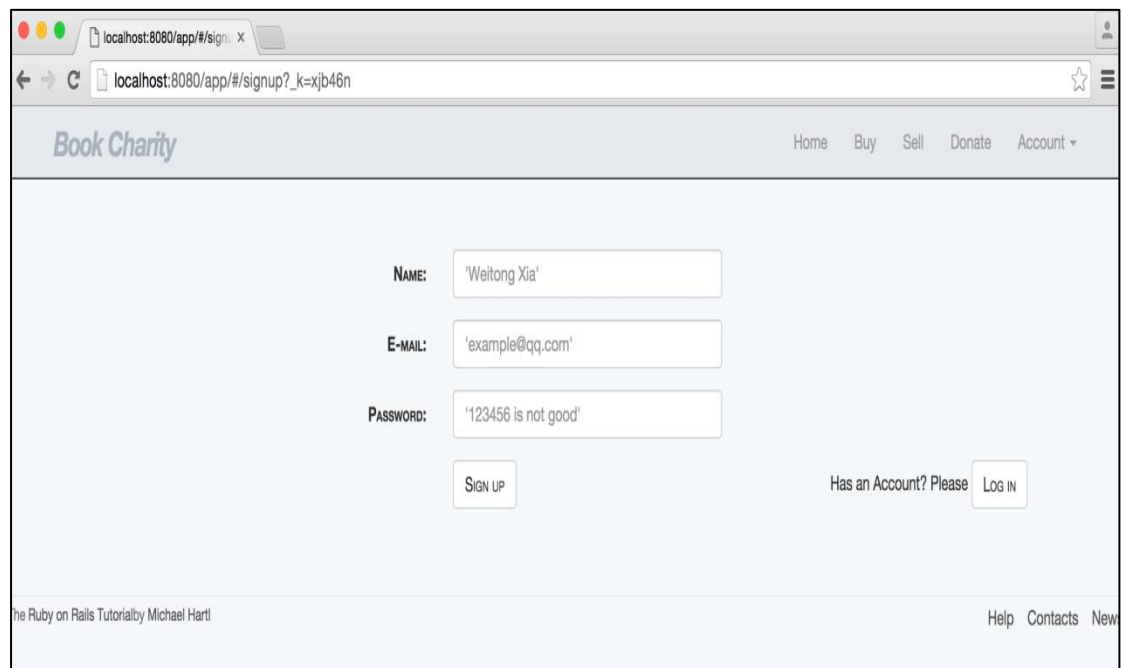
```
book_data.js
1  var allBooks = [
2      {
3          "age": 0,
4          "id": "book-1",
5          "imageUrl": "img/books/book-1.jpg",
6          "name": "Call the Midwife",
7          "snippet": "A fascinating slice of social history - Je
8      },
9      {
10         "age": 1,
11         "id": "book-2",
12         "imageUrl": "img/books/book-2.jpg",
13         "name": "Flowers in the Attic",
14         "snippet": "The haunting young adult gothic romance cl
15     },
16     {
17         "age": 2,
18         "id": "book-3",
19         "imageUrl": "img/books/book-3.jpg",
20         "name": "Four",
21         "snippet": "Fans of the Divergent series by No. 1 New
22     },
23     {
24         "age": 3,
25         "id": "book-4",
26         "imageUrl": "img/books/book-4.jpg",
27         "name": "Eleanor & Park",
28         "snippet": "'Reminded me not just what it's like to be
29     },
30     {
31         "age": 4,
32         "id": "book-5",
33         "imageUrl": "img/books/book-5.jpg",
34         "name": "Twilight",
```

UI Design

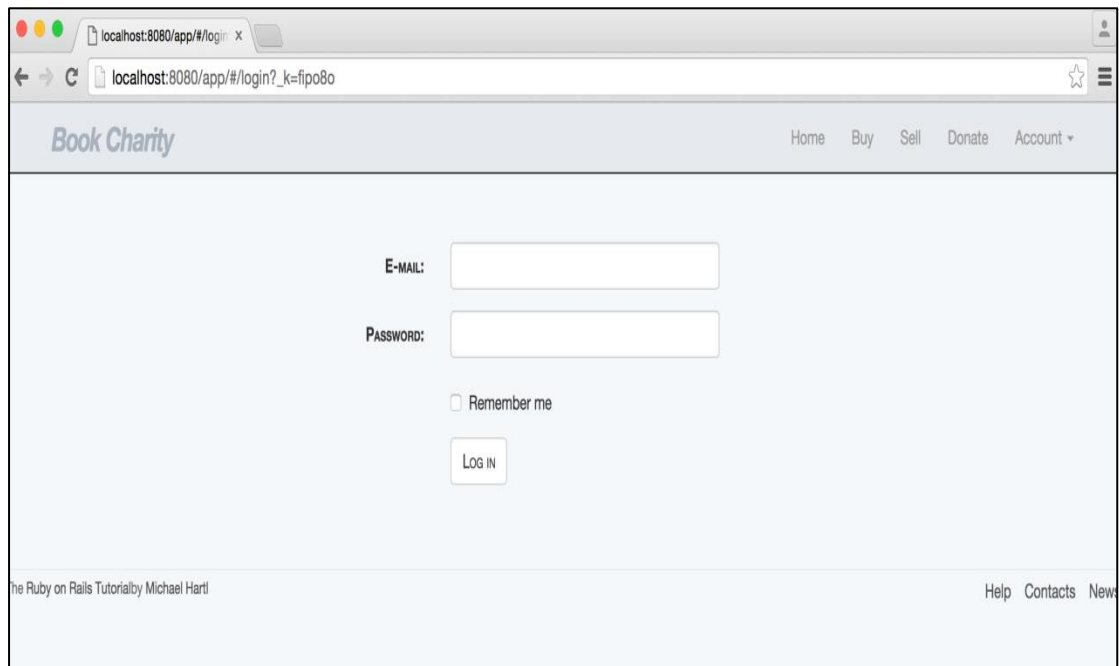
Route: /app (IndexRoute)



Route: /app/#/signup



Route: /app/#/login



A screenshot of a web browser showing the login page for 'Book Charity'. The browser's address bar displays 'localhost:8080/app/#/login?_k=fipo8o'. The page has a light blue header with the 'Book Charity' logo on the left and navigation links 'Home', 'Buy', 'Sell', 'Donate', and 'Account' on the right. The main content area is a light blue box containing a login form. The form has two input fields: 'E-MAIL:' and 'PASSWORD:'. Below these is a checkbox labeled 'Remember me' and a 'Log IN' button. At the bottom of the page, there is a footer with the text 'The Ruby on Rails Tutorial by Michael Hartl' on the left and 'Help', 'Contacts', and 'New' on the right.

Book Charity

Home Buy Sell Donate Account

E-MAIL:

PASSWORD:

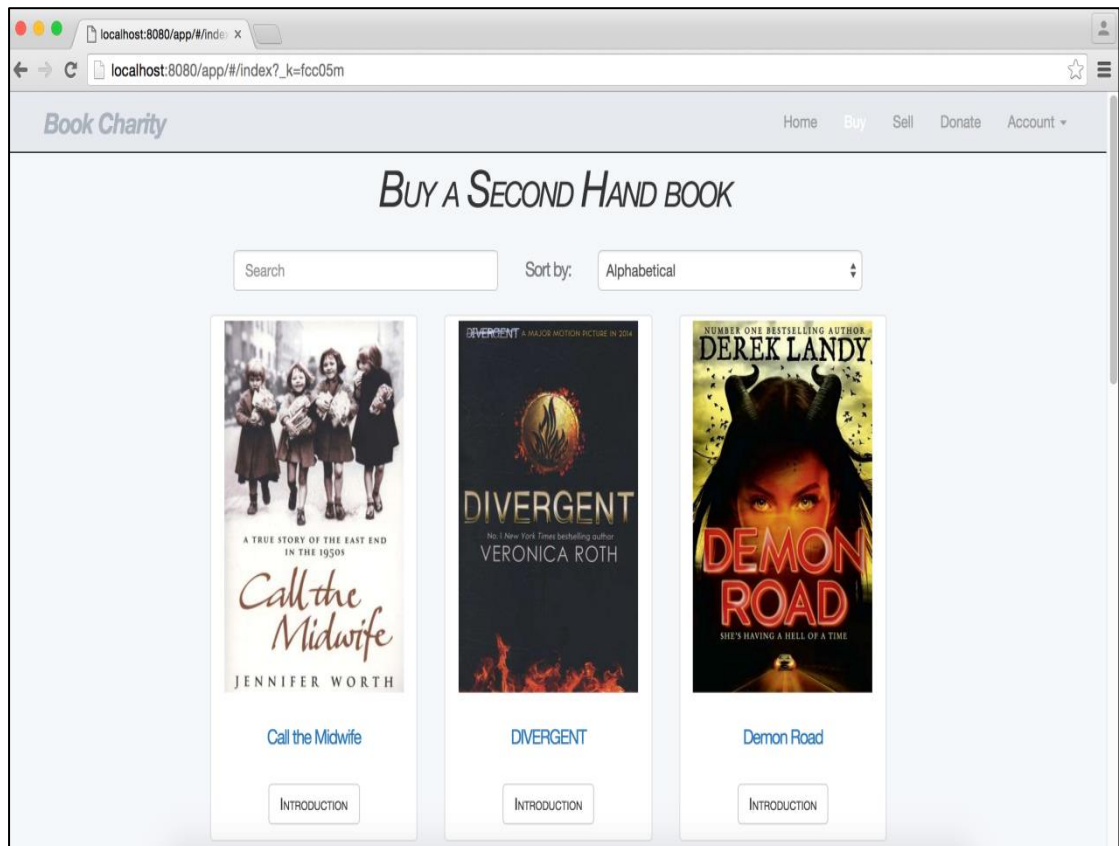
☐ Remember me

Log IN

The Ruby on Rails Tutorial by Michael Hartl

Help Contacts New

Route: /app/#/index



A screenshot of a web browser showing the index page for 'Book Charity'. The browser's address bar displays 'localhost:8080/app/#/index?_k=fcc05m'. The page has a light blue header with the 'Book Charity' logo on the left and navigation links 'Home', 'Buy', 'Sell', 'Donate', and 'Account' on the right. The main content area is a light blue box with the heading 'BUY A SECOND HAND BOOK'. Below the heading is a search bar and a 'Sort by: Alphabetical' dropdown menu. There are three book cards displayed in a row. Each card features a book cover, the book title, the author's name, and an 'INTRODUCTION' button. The first card is for 'Call the Midwife' by Jennifer Worth. The second card is for 'DIVERGENT' by Veronica Roth. The third card is for 'Demon Road' by Derek Landy.

Book Charity

Home Buy Sell Donate Account

BUY A SECOND HAND BOOK

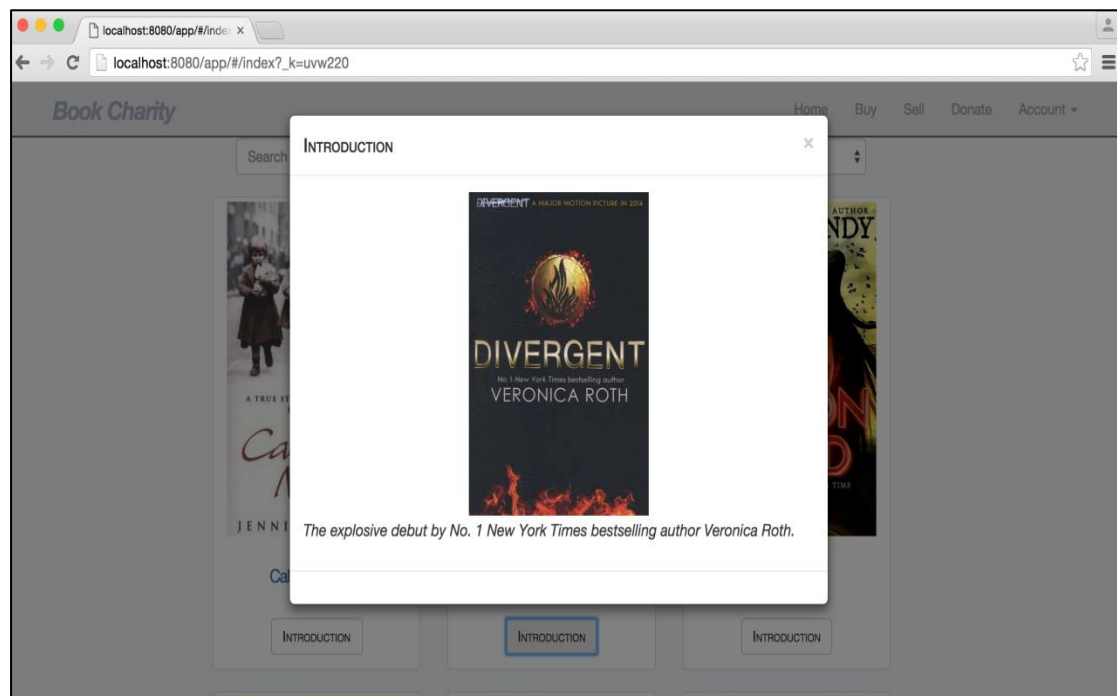
Search Sort by: Alphabetical

Call the Midwife
A TRUE STORY OF THE EAST END
IN THE 1950s
JENNIFER WORTH
Call the Midwife
INTRODUCTION

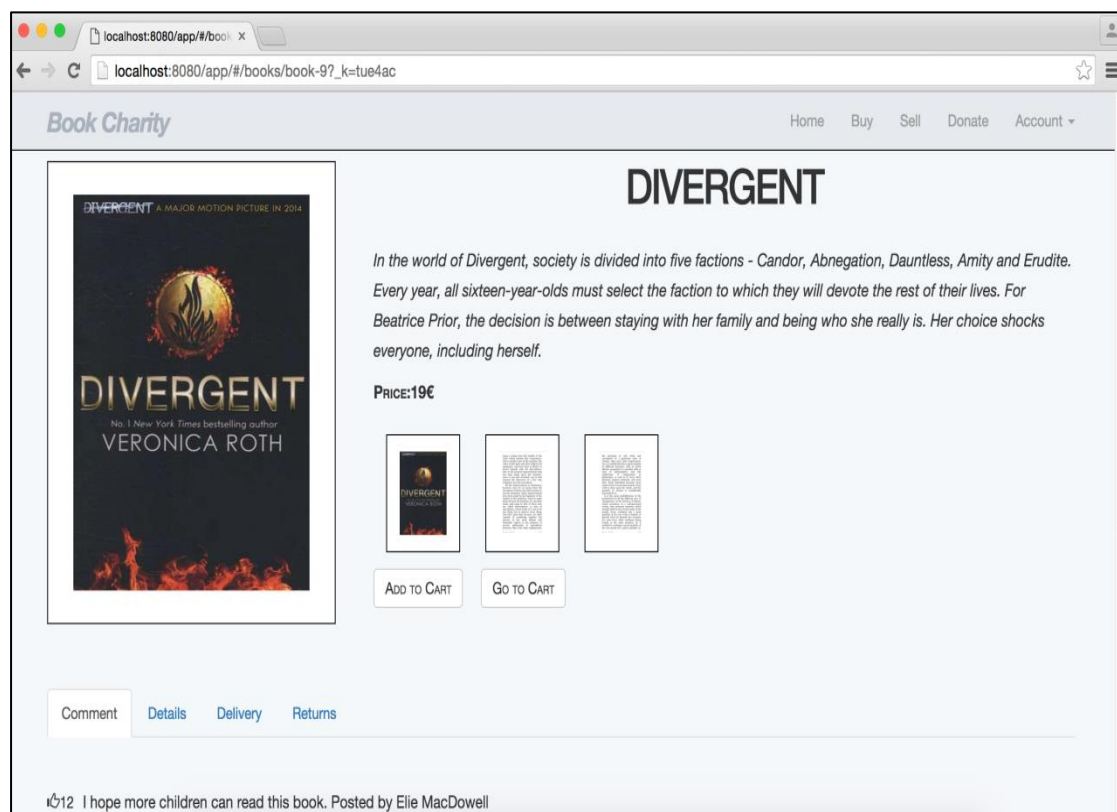
DIVERGENT
No. 1 New York Times bestselling author
VERONICA ROTH
DIVERGENT
INTRODUCTION

DEMON ROAD
NUMBER ONE BESTSELLING AUTHOR
DEREK LANDY
SHE'S HAVING A HELL OF A TIME
Demon Road
INTRODUCTION

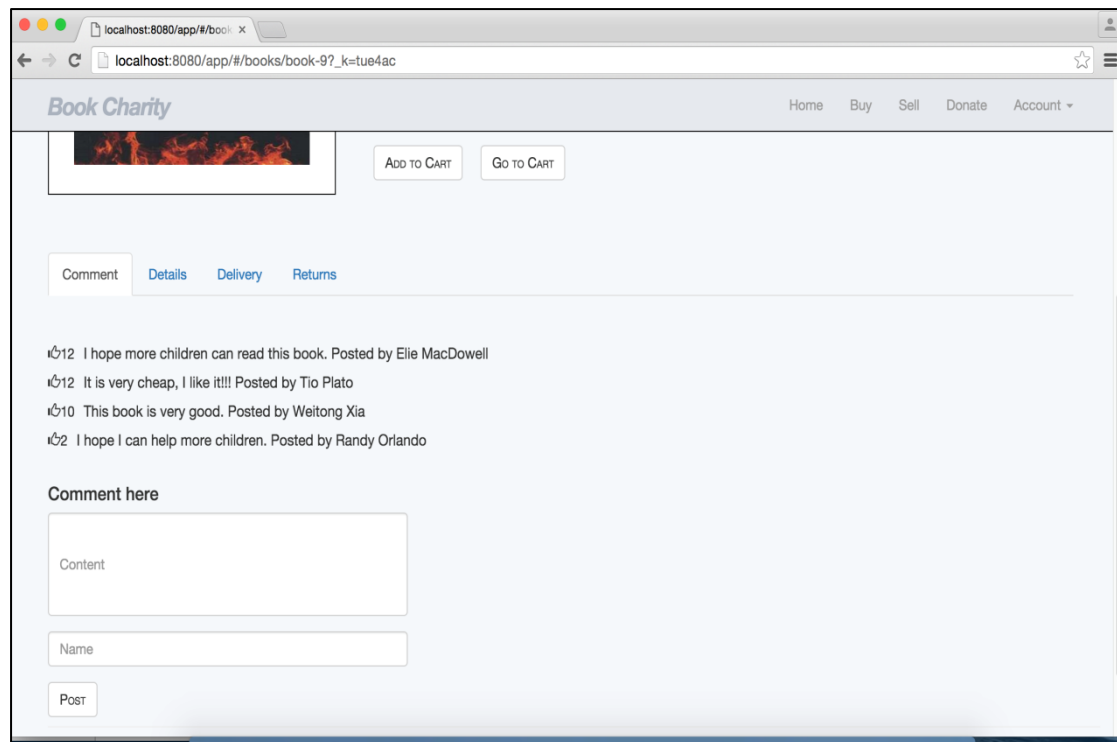
Click description button



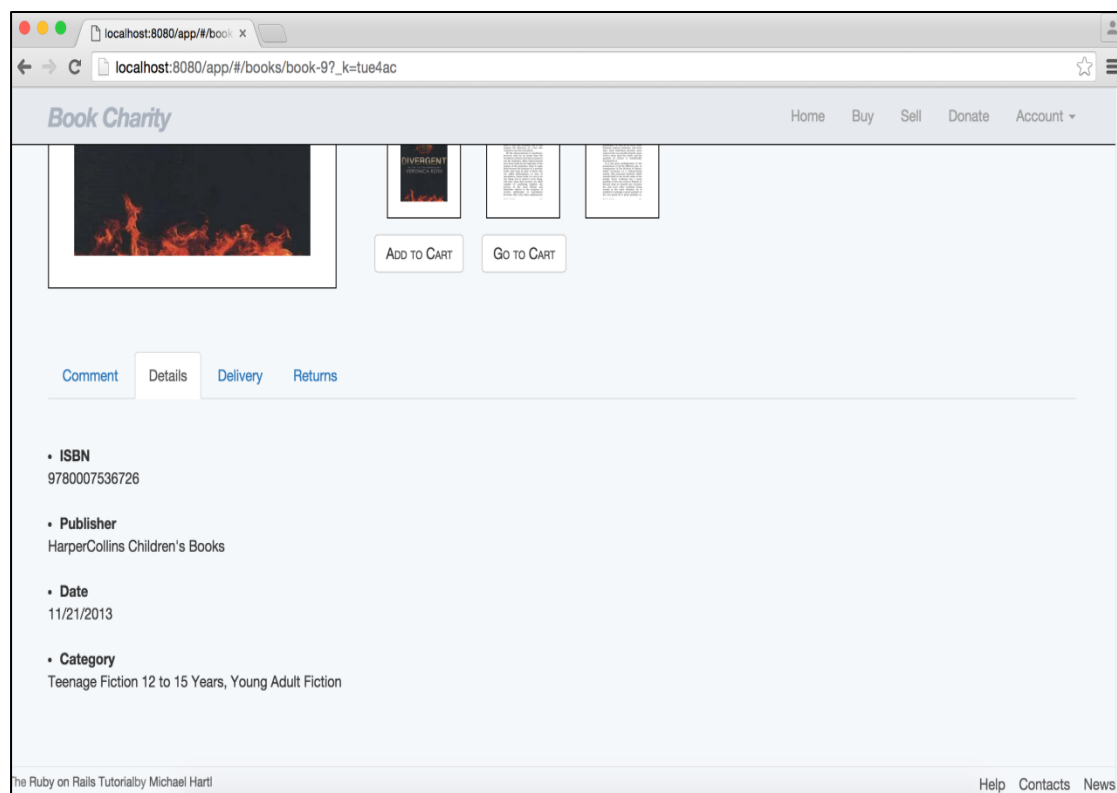
Route: /app/#/books/book-id



Comment view



Details view



Route: /app/#/sell

localhost:8080/app/#/sell?_k=ravj61

Book Charity

HomeBuySellDonateAccount

Book name:

'Grimm's Fairy Tales' ...

Introduction:

Cover page:

Choose File


No file chosen

Set price:

€

The income will be donated to:

Charity Total Association



SUBMIT

Route: /app/#/donate

localhost:8080/app/#/donate?_k=62tqkt

Book Charity

HomeBuySellDonateAccount

Shipping Address:

First Name

Last Name


Area Code

Primary Phone


ZIP Code

Street Address


Apt, Suite, Bldg, Gate Code. (optional)




DONG LIN

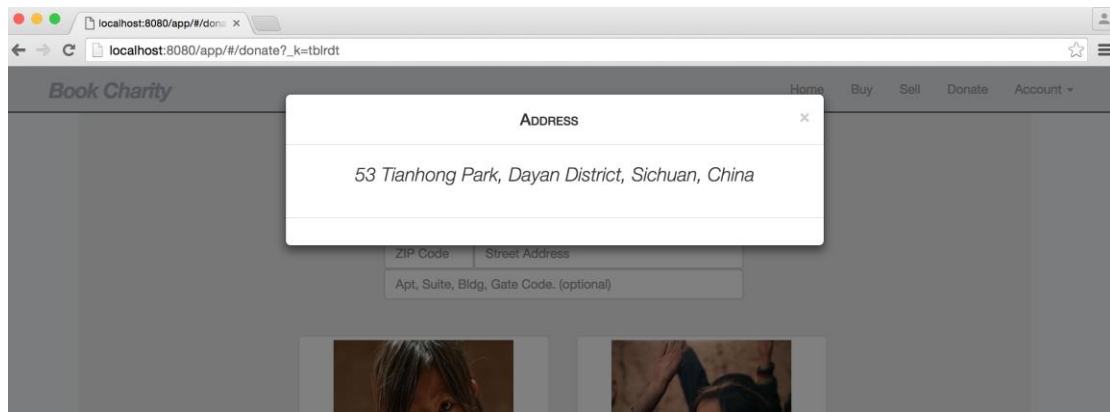


FENG NIE





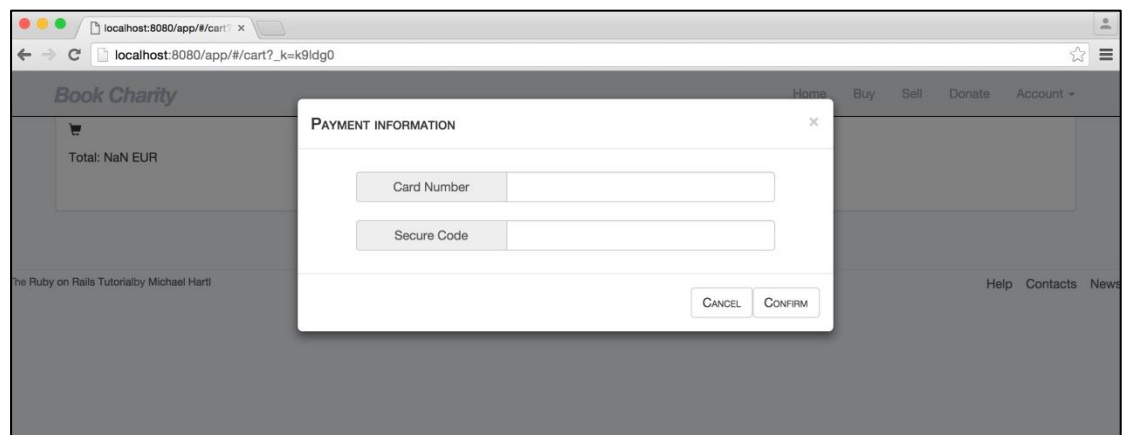
Click name button

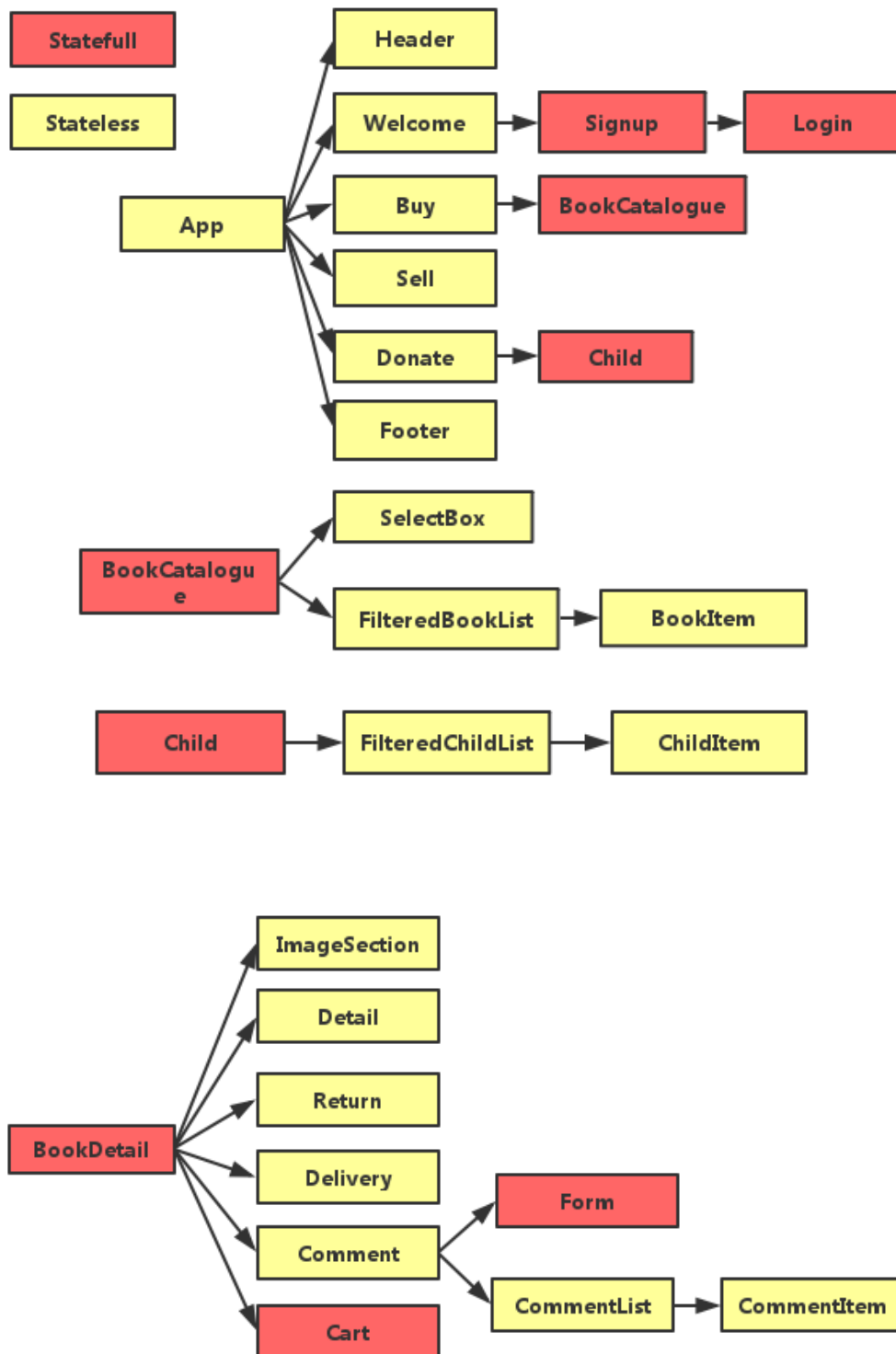


Route: /app/#/cart



Click Pay button





BookCatalogue state: { search: "", sort: 'name', books : [] }

BookDetail state: {book: null, added : false }

Child state: { search: "", sort: 'name' , children : [] }

Form state: {content: "", name: }
Signup state: { email:"", password:""}
Login state: { email:"", password:""}
Cart state: { items: [], total: 0, currency: 'EUR'}

Extra features

In my assignment, I use json-server to mock users, which includes:

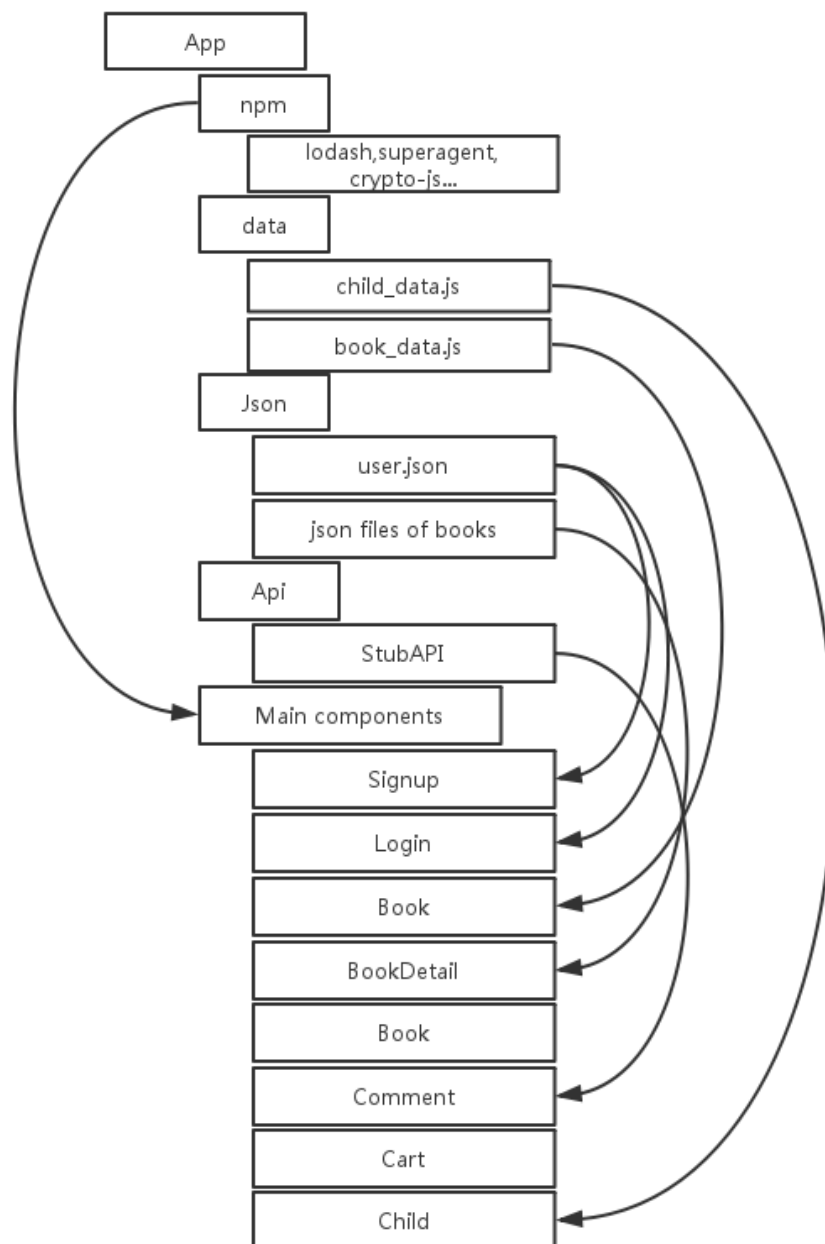
1. Sign up
2. Encrypt password with SHA256
3. Log in
4. Log out
5. Authenticate whether a user has logged in

These features can not work without json server

When users sign up, the user information will be written into user.json file, and the password will be encrypted by SHA256 algorithm and shown in user.json file or localhost:3000/users

When a user wants to add a book into cart, the application can judge whether a user has logged in. if not, the user can not add a book and jump to log in page. Once logged in, the user can only use the cart function, and then click logout button, the user can not use cart again.

Architecture



Independent learning

SHA256 algorithm for encryption.