

# Component Communication Exercise

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In this exercise, you'll take an existing component and turn it into a group of components that communicate through a Vuex datastore. Throughout this exercise, you'll move data into a Vuex datastore, set up mutations, and create new components to interact with the data.

Before you begin the exercise, run `npm install` to install any dependencies.

## Step One: Show reading list

First, take the following state and put it into the Vuex datastore located in `src/store/index.js`:

```
books: [  
  {  
    title: "Kafka on the Shore",  
    author: "Haruki Murakami",  
    read: false,  
    isbn: "9781400079278"  
  },  
  {  
    title: "The Girl With All the Gifts",  
    author: "M.R. Carey",  
    read: true,  
    isbn: "9780356500157"  
  },  
  {  
    title: "The Old Man and the Sea",  
    author: "Ernest Hemingway",  
    read: true,  
    isbn: "9780684830490"  
  },  
  {  
    title: "Le Petit Prince",  
    author: "Antoine de Saint-Exupéry",  
    read: false,  
    isbn: "9783125971400"  
  }  
]
```

Implement the `ReadingList` component to take that data and create a `BookCard` component for each book. At this stage, you only need to create a `BookCard` component per book. Don't worry about showing anything on the `BookCard` yet.

These are the files you'll edit for this step:

- `src/component/ReadingList.vue`
- `src/store/index.js`

After you complete step one, run the end-to-end tests with the following command: `npm run test:e2e`.

You may notice that the Book Review page contains simply a title and four empty boxes.

## Reading List

All tests under "Step One Tests" now pass.

## Step Two: Display book details

Set up the `BookCard` to have a prop that takes a book and shows the details of that book in its UI: title, cover image, and author. The UI must use the provided classes in the CSS for the tests to work correctly:

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Book Title     `.book-title`

---

Book Author   `.book-author`

Note: The `img` tag to show the book cover using the book's ISBN has been provided, but commented out. You should remove the open and close tags at this time.

```

```

Once you complete this step, all the tests under "Step Two Tests" pass.

## Reading List



## Step Three: Add a read/unread toggle button

Add a new control to the **BookCard** that's a button to toggle the read and unread status of a book. The button must indicate what clicking the button sets the status to. All books with a read status must have the **read** class added to the card.

Remember that the read status must be set through a mutation, not set directly from the **BookCard** component.

The button that sets the status to read must have a **mark-read** class, and the button that sets the status to unread must have a **mark-unread** class.

Once you complete this step, all tests under "Step Three Tests" pass.



## Step Four: Add a **NewBookForm** component

Create a new component that has a form for a user to add a new book to the list. The elements must have the following classes:

Form	<code>.new-book-form</code>
Title Input Field	<code>.title-input</code>
Author Input Field	<code>.author-input</code>
ISBN Input Field	<code>.isbn-input</code>

Lastly, add the component to the page in the **App** component.

Now, all tests pass.