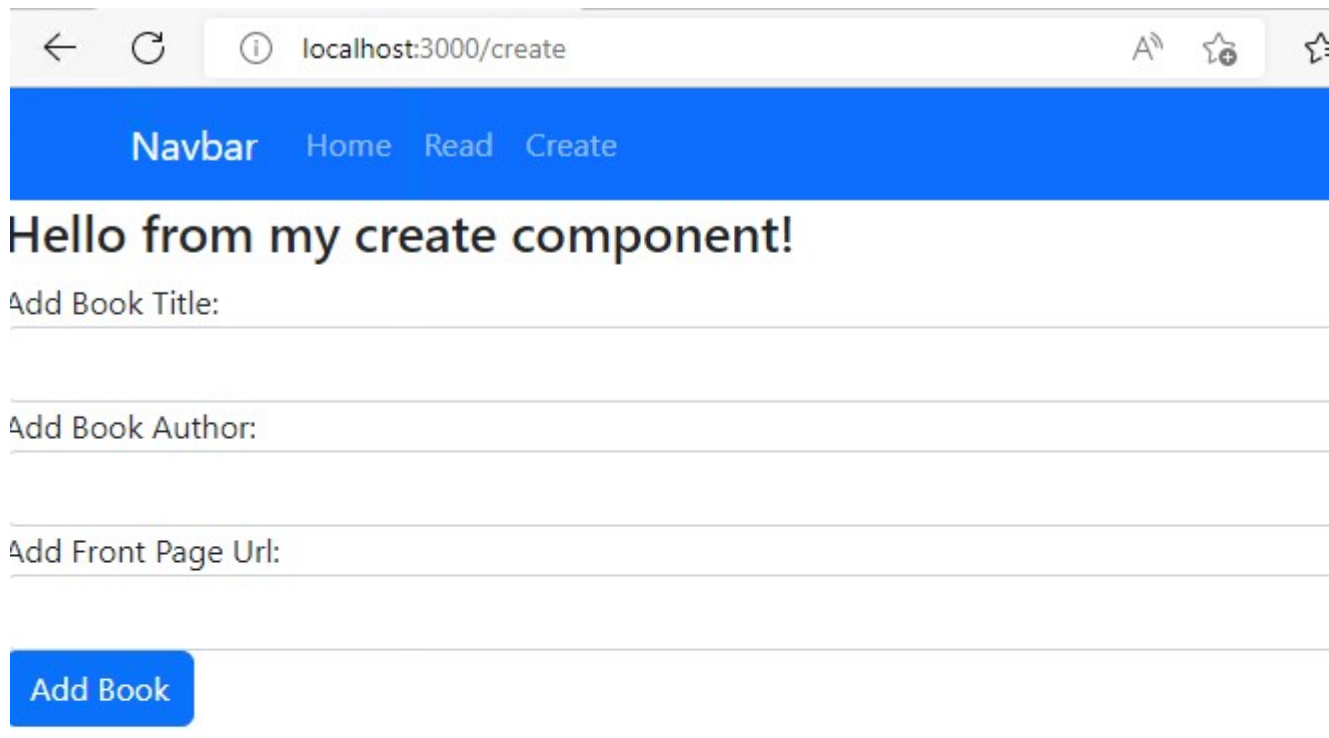


The following exercises are related to the use of React.

1. Create a git repository for your answers to this problem sheet. Push the repository to GitHub. Make a commit and push it to GitHub after each exercise.
2. (a) In last weeks lab we built an React Application that embedded components that exchange data. The final solution to last weeks lab can be found at [https://github.com/Data-Rep-MERN-Application/lab\\_three](https://github.com/Data-Rep-MERN-Application/lab_three). However, you should use your lab solution from last week. Clone this application if you did not finish the application last week. To clone the application:  
`git clone https://github.com/Data-Rep-MERN-Application/lab_three`  
We then need to run:  
`npm install`  
This will install all the prerequisites for the application.  
(b) Add axios to our project, axios is a Promise based HTTP client. Using:  
`npm install axios`  
(c) Use a component lifecycle hook that will called every time the component is inserted into the DOM. <https://reactjs.org/docs/state-and-lifecycle.html>  
(d) In this lifecycle hook make a http get call that will return the json data from <https://jsonblob.com/api/jsonblob/1027219693823606784> and assign it to the component state. Remove the assignment direct to the component state from part one.
3. (a) Modify the Create component so that it now includes a form that will upload data to a server. An example of this can be found at <https://reactjs.org/docs/forms.html>. The application should now look like:



← ↻ ⓘ localhost:3000/create A ☆ ☆

Navbar Home Read Create

## Hello from my create component!

Add Book Title:

Add Book Author:

Add Front Page Url:

Add Book

- (b) The application should handle the new events from the button click and log the information submitted in the form to the console as shown above. **Hint:** The code for the Book title input control is:

```
<div className="form-group">
  <label>Add Book Title: </label>
  <input type="text"
    className="form-control"
    value={this.state.title}
    onChange={this.onChangeBookTitle}
  />
</div>
```