Database search from Node

Welcome to this lab activity

In this lab activity, you will explore how to implement a search page that searches the database and shows matching results.

Task 1: Make a copy of the previous lab code

You will start with your previous Node.js lab code.

- 1. Make a copy of the folder 17_inserting_data_to_database from your previous lab and call it 18_database_search.
- **2.** Open the new folder in Visual Studio Code.
- **3.** Run the code and confirm that the list page still works (refer to the previous lab if you need a reminder of how to do this).

Task 2: Modify the existing 'search' code in your web application

Your task is to modify your search functionality. When the user enters a search term in the search form, your application should perform a search on the database and then show any matching books in the /list web page.

4. Modify the handler for the /search_result route as follows:

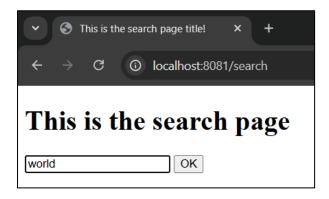
```
router.get("/search_result", function (req, res, next) {
    // Search the database
    let sqlquery = "SELECT * FROM books WHERE name LIKE ?";

    // Execute sql query
    let word = ['%' + req.query.search_text + '%'];
    db.query(sqlquery, word, (err, result) => {
        if (err) {
            next(err);
        }
        else if (result.length==0) {
            res.send("No book matches the search term " + word);
        }
        else {
            res.render ('list.ejs', {availableBooks:result});
        }
}
```

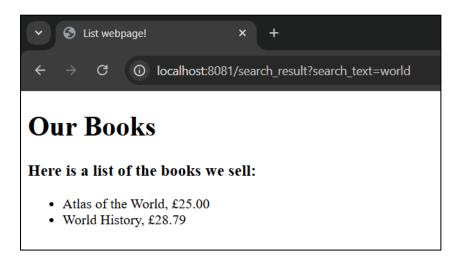
```
});
});
```

Task 3: Test your app

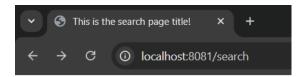
5. Run the app and browse to the /search route. Enter a search term that matches one or more books, for example:



You should see a list of books:



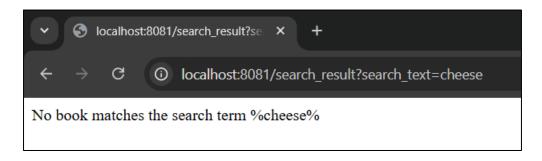
6. Go back to your search page and enter a search term for a book that doesn't exist, for example:



This is the search page



Confirm that you get an appropriate error message:



Task 4: Explore further

When tackling these lab activities, it's always good to stretch yourself by doing some research and attempting some changes on your own.

Change message from 'Here is a list of the books we sell' to 'Here is a list of books matching 'world". Do this dynamically, so both the /list and the /search_result routes use the same list.ejs page.

End of lab

Congratulations on completing this lab.

In the next lab, you will be designing a data model to fulfil a set of requirements.