**Final Project**

**Due Date: April 24, 2018**

**For this final project, you are asked to write a web application in Node.js. The app is to be deployed on the IBM Bluemix cloud platform and be accessible from anywhere on the Internet.**

**The app should provide users with an API that allows to implement a book management system using a Cloudant NoSQL database deployed on the cloud.**

**The information to be maintained about the books is as follows:**

* **Title: a character string representing the book title.**
* **Author: a character string representing the author of the book.**
* **Year: the year the book was published.**
* **Genre: a category for classifying the book genre. The possible choices for this field include science fiction, satire, drama, action, romance, mystery, and horror.**

**The API should include a function to perform each of the following actions:**

* **Add a new book to the database. The user will be asked to enter all the attributes of the new book to be added. Once the book is successfully added to the database, the user should see an acknowledgement in the browser.**
* **Delete an existing book from the database. The user will be asked to enter the title of the book to be deleted. Once the book is deleted from the database, the user should see an acknowledgement in the browser.**
* **Find all books matching any one of the attributes. The user will be asked for the value of the attribute to be matched. The user should see the resulut of the query based on the provided information.**
* **List all books. The user will not be required to enter any information. The information about all the books in the database should be displayed in the browser.**
* **Modify attributes of the book. The user will be asked to provide the new values of the attributes. Once the attributes have been updated in the database, the user should see an acknowledgement in the browser.**

**Please use the notes for the example we developed in class as a guide. The code used in the example was already posted on Canvas.**