## Problem Sheet:Mongo/MERN

The following exercises are related to the use of Mongo Database.

- 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. In our lab we got our React application sending and receiving data from out Node/Express Server. The final solution to the lab can be found at https://github.com/Data-Rep-MERN-Applicatilab\_six. Clone this application if you did not finish the application last week. To clone an the application

git clone https://github.com/Data-Rep-MERN-Application/lab\_six if the application does not run you must install the project dependencies

## npm install

- 3. (a) Create a free account and free cluster on https://www.mongodb.com/. Follow the tutorial provided.
  - (b) Allow all IP addresses to connect to your database.
  - (c) Add a simple user and password to connect to your database e.g admin admin
- 4. Get your node/express server to connect to the mongodb Mongo database. We will use mongoose.js module to connection to our Mongo database hosted in the cloud. https://mongoosejs.com/docs/index.html
- 5. Create a data model using Schema Interface to represent the book object we have been creating and listing in the labs to-date. An introduction to mongoose schema can be found at: https://mongoosejs.com/docs/guide.html. Use the Schema to construct a database model: https://mongoosejs.com/docs/models.html. A compete tutorial on using mogoose.js can be found at: https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express\_Nodejs/mongoose.
- 6. Make sure your database is empty of all files and collections. Write a method that will write data to your data base use the tutorial available at https://developer.mozilla.org/en-US/docs/Learn/Server-side/Express\_Nodejs/mongoose
- 7. Write a method that reads all data from the database and gets it to display on the react app.
- 8. Write a method that reads a document/book by id from your database in your node/express server.