Problem Sheet: Node/Express

The following exercises are related to the use of Node/Express.

- 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. What is Express? Again add you answer to your README file. https://expressjs.com
- 3. Write an server application that listens on localhost:3000 and returns "Welcome to Data Representation & Querying". Follow the following tutorial: https://expressjs.com/en/starter/hello-world.html
- 4. Add another route point using the Express Framework that will take an argument form the url path and return hello "argument" for the url http://localhost:3000/hello/Ted returns hello Ted
- 5. Add a route point /api/books that will return the following json data:

```
{
   "books":[
"title": "Learn Git in a Month of Lunches",
"isbn": "1617292419",
"pageCount": 0,
"thumbnailUrl":
"https://s3.amazonaws.com/AKIAJC5RLADLUMVRPFDQ.book-thumb-images/umali.jpg",
"status": "MEAP",
"authors": ["Rick Umali"],
"categories": []
},
"title": "MongoDB in Action, Second Edition",
"isbn": "1617291609",
"pageCount": 0,
"thumbnailUrl":
"https://s3.amazonaws.com/AKIAJC5RLADLUMVRPFDQ.book-thumb-images/banker2.jpg",
"status": "MEAP",
"authors": [
"Kyle Banker",
"Peter Bakkum",
"Tim Hawkins",
"Shaun Verch",
"Douglas Garrett"
],
"categories": []
},
```

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```
{
"title": "Getting MEAN with Mongo, Express, Angular, and Node",
"isbn": "1617292036",
"pageCount": 0,
"thumbnailUrl":
"https://s3.amazonaws.com/AKIAJC5RLADLUMVRPFDQ.book-thumb-images/sholmes.jpg",
"status": "MEAP",
"authors": ["Simon Holmes"],
"categories": []
}
]
}
```

- 6. Add another route /test that returns a html page when Queried. Your file should called index.html. e.g app.get
- 7. Add a form to index.html with a two text boxs with firstname and lastname with the method GET. Set the form action to "/name" Add a submit button. In server.js, change the "/name" route to accept the name variable as a URL encoded GET variable. Run the server and test.
- 8. Add another form to index.html with a two text boxs with firstname and lastname with the method POST. Set the form action to "/name" Add a submit button. In main.js, change the "/name" route to accept the name variable as a body encoded POST variable. Run the server and test. There will be two methods in node.js one for GET and one for POST.