

# IMY 220

## Practical 5

### MongoDB

---

*Due: Friday 6 September @ 8:30*

*The submission instructions are available on ClickUP. Any deviation from these instructions will cause 10% deduction from your mark.*

#### Instructions

- The aim of this practical is to fetch data from MongoDB database and display events that fall within certain criteria.
- Download the *events.json* from ClickUP. This file contains the data that you will need to upload to a MongoDB database and display.

Before you start, note that there is a potential issue with using the connection string when connecting when using the “Connect via MongoShell” option. **You should use the method specified in the lecture slides to get the connection string.**

For this practical, you will need to upload your connection string in a file called *details.txt*. **Please do not upload your MongoDB Atlas account details. Only the connection string** that you use to interact with the database.

#### Section #1 - Initial Setup

Create a new MongoDB database and name it whatever you want. You are also welcome to use an existing database that you have already setup. Create a collection with the name **events** and upload the *events.json* file to it. You can use any method of uploading the JSON file, although the easiest way would be using MongoDB Compass.

Once your MongoDB database is set up, create a new Node project (using *npm init*) and install the **mongodb** package. You will only be allowed to use the **mongodb** package to interact with your MongoDB database via code.

#### Section #2 - Fetching Events

For this practical, you **do not** need to set up an Express server. Inside your *server.js* file, connect to your MongoDB database and query the events collection to fetch only the entries that fall under the specific criteria:

- The event should take place in **Brooklyn** with a capacity **greater than 20**.
- An event should fall **between** the dates of the 8th of October and the 26th of October.

After fetching the correct data, only display the **name** and **description** of the event. If this has been done correctly, the following will be logged to your console:

```
[
  {
    "name": "Picnic in the park",
    "description": "Picnic at a local park"
  },
  {
    "name": "Pumpkin picking",
    "description": "Pumpkin picking with friends"
  },
  {
    "name": "Farmers market", "description":
    "Farmers market with musicians and good food" },
  {
    "name": "Quiz night",
    "description": "Quiz night at a local bar"
  }
]
```

## Submission Files

- server.js
- details.txt

## Submission Instructions

- ZIP all submission files (using a tool like 7Zip or WinRar) into a ZIP file called *uXXXXXXXX-P5.zip*, where *uXXXXXXXX* is your student number.
- Submit your ZIP file before 8:30 to avoid any late submissions.