

Training Day 19

Day 19 - 15th July 2025

Topics Covered: Mongoose, Middleware, Params, Query, Body, Schema

1. Mongoose

- a. Used Mongoose to interact with MongoDB from Node.js.
- b. Established a connection with MongoDB Atlas.
- c. Created schemas and models to define data structure and interact with collections.

2. Schema

- a. Defined custom schema for documents using `mongoose.Schema()`.
- b. Example:

```
const studentSchema = new mongoose.Schema({  
  name: String,  
  age: Number,  
  course: String  
});
```

3. Middleware

- a. Learned about Express middleware for pre-processing requests.
- b. Used middleware like `express.json()` to parse incoming JSON data.
- c. Also understood how custom middleware can be used for authentication or logging.

4. Params

- a. Used `req.params` to capture dynamic route values.
- b. Example:

```
app.get('/user/:id', (req, res) => {  
  res.send(req.params.id);
```

```
});
```

5. Query

- a. Extracted query strings using req.query.
- b. Example:
/search?course=react
app.get('/search', (req, res) => {
 res.send(req.query.course);
});

6. Body

- a. Accessed POST request data using req.body (after using express.json() middleware).
- b. Example:

```
app.post('/submit', (req, res) => {  
  console.log(req.body);  
});
```

Task for Tomorrow:

1. Practice writing POST and GET APIs using Express and Mongoose.
2. Perform database operations like insert, update, delete using schemas.
3. Explore route structuring and API best practices.