

# Training Day 6 Report

Date: 2 July 2025

## Topic Covered: Connecting MongoDB Atlas with Mongoose

On the sixth day of MERN stack training, we learned how to connect our backend server to a MongoDB database using Mongoose and MongoDB Atlas.

### Setting Up MongoDB Atlas

- Logged into MongoDB Atlas and created a free cluster.
- Added a database user with username and password.
- Configured network access to allow connections from any IP address (0.0.0.0/0).
- Copied the MongoDB connection string from the Atlas dashboard.

### Installing and Configuring Mongoose

- Ensured `mongoose` package was installed in the backend.
- Created a `.env` file to securely store the `MONGO_URI`.
- In `server.js`, imported Mongoose and used:

```
mongoose.connect(process.env.MONGO_URI, {
  useNewUrlParser: true,
  useUnifiedTopology: true
})
.then(() => console.log('MongoDB connected'))
.catch(err => console.log(err));
```

### Testing the Connection

- Started the backend server.
- Verified in the console that the message "MongoDB connected" appeared.
- Checked Atlas to confirm that the connection was active.

## Outcome of the Day

- Successfully connected the backend to MongoDB Atlas.
- Learned how to store sensitive credentials in a `.env` file.
- Backend is now ready for creating database models and routes.