

Training Day 27 Report

Date: 26 July 2025

Project: MERN Notes App

Topic Covered: Deployment of MERN Notes App

On the twenty-seventh day, we deployed the MERN Notes App to a cloud hosting provider and connected it with MongoDB Atlas. This made the application publicly accessible.

Concepts Learned

- Hosting backend and frontend together on platforms like Render/Heroku.
- Configuring environment variables on the hosting platform.
- Connecting to MongoDB Atlas from production environment.
- Testing the deployed application.

Steps for Deployment

1. Pushed latest code to GitHub repository.
2. Chose **Render** as the hosting provider.
3. Created a new Render web service linked to the GitHub repo.
4. Set build and start commands:

```
1 # Build command
2 npm install && npm run build
3
4 # Start command
5 npm start
```

5. Configured environment variables in Render dashboard:

```
1 PORT=10000
2 MONGO_URI=mongodb+srv://<username>:<password>@cluster0.mongodb.net/
  notes
3 JWT_SECRET=mysecretkey
4 NODE_ENV=production
```

6. Deployed and monitored logs to ensure successful startup.

Testing the Deployment

- Opened the live URL provided by Render → frontend loaded correctly.
- Signed up a new user and logged in → authentication worked in production.
- Created, edited, and deleted notes → changes persisted in MongoDB Atlas.
- Verified that protected routes required authentication.

Outcome of the Day

- Successfully deployed the MERN Notes App to the cloud.
- Connected backend to MongoDB Atlas for persistent storage.
- Application is now fully functional and accessible online.