

# Link Shortener Project

```
require('dotenv').config();
const express = require('express');
const mongoose = require('mongoose');
const shortid = require('shortid');
const cors = require('cors');

const app = express();
app.use(express.json());
app.use(cors());

mongoose.connect(process.env.MONGO_URI || 'mongodb://localhost:27017/urlShortener', {
  useNewUrlParser: true,
  useUnifiedTopology: true
}).then(() => console.log('MongoDB Connected'))
.catch(err => console.log('MongoDB Connection Error:', err));

const UrlSchema = new mongoose.Schema({
  originalUrl: String,
  shortUrl: String
});
const Url = mongoose.model('Url', UrlSchema);

app.post('/shorten', async (req, res) => {
  const { originalUrl } = req.body;
  const shortUrl = shortid.generate();

  const url = new Url({ originalUrl, shortUrl });
  await url.save();

  res.json({ originalUrl, shortUrl });
});

app.get('/:shortUrl', async (req, res) => {
  const { shortUrl } = req.params;
  const url = await Url.findOne({ shortUrl });

  if (url) {
    res.redirect(url.originalUrl);
  } else {
    res.status(404).json({ error: 'URL not found' });
  }
});

const PORT = process.env.PORT || 5000;
app.listen(PORT, () => console.log(`Server running on port ${PORT}`));
```