## Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Microblogging App</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="container">
    <h1>Microblogging Application</h1>
    <div id="auth">
      <h2>Register</h2>
      <input type="text" id="regUsername" placeholder="Username">
      <input type="password" id="regPassword" placeholder="Password">
      <button id="registerBtn" onclick="alert('Registered successfully')">Register</button>
    </div>
      <input type="text" id="loginUsername" placeholder="Username">
      <input type="password" id="loginPassword" placeholder="Password">
    <a id="loginLink" href="post.html">
      <button id="loginBtn">Login</button>
    </a>
    </div>
  </div>
  <script>
```

```
let token = ";
document.getElementById('registerBtn').addEventListener('click', async () => {
  const username = document.getElementById('regUsername').value;
  const password = document.getElementById('regPassword').value;
  const response = await fetch('/register', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ username, password })
  });
  const result = await response.json();
  alert(result.message);
});
document.getElementById('loginBtn').addEventListener('click', async () => {
  const username = document.getElementById('loginUsername').value;
  const password = document.getElementById('loginPassword').value;
  const response = await fetch('/login', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ username, password })
  });
  const result = await response.json();
  token = result.token;
  document.getElementById('auth').style.display = 'none';
  document.getElementById('app').style.display = 'block';
  fetchFeed();
});
document.getElementById('postBtn').addEventListener('click', async () => {
  const content = document.getElementById('postContent').value;
  await fetch('/post', {
```

```
headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ content, token })
      });
      document.getElementById('postContent').value = ";
      fetchFeed();
    });
    async function fetchFeed() {
      const response = await fetch('/feed', {
        headers: { Authorization: `Bearer ${token}` }
      });
      const posts = await response.json();
      const feedDiv = document.getElementById('feed');
      feedDiv.innerHTML = ";
      posts.forEach(post => {
        const postDiv = document.createElement('div');
        postDiv.textContent = post.content;
        feedDiv.appendChild(postDiv);
      });
    }
  </script>
</body>
</html>
Post.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

method: 'POST',

```
<title>Document</title>
  <link rel="stylesheet" href="style1.css">
</head>
<body>
  <h1>Microblogging Application</h1>
    <h2>Create a Post</h2>
    <input type="text" id="postContent" placeholder="What's on your mind?">
    <button id="postBtn" onclick="alert('Post Successfull')">Post</button>
    <h2>Your Feed</h2>
    <div id="feed"></div>
</body>
</html>
Express.js
const express = require('express');
const mongoose = require('mongoose');
const bcrypt = require('bcryptjs');
const jwt = require('jsonwebtoken');
const app = express();
app.use(express.json());
app.use(express.static('public'));
const jwtSecret = "supersecretkey";
// Connect to MongoDB
mongoose.connect('mongodb://localhost/microblog', {
  useNewUrlParser: true,
  useUnifiedTopology: true
}).then(() => console.log('Connected to MongoDB...'))
```

```
.catch(err => console.error('Could not connect to MongoDB...', err));
// User and Post Schemas
const userSchema = new mongoose.Schema({
  username: { type: String, unique: true },
  password: String,
  followers: [{ type: mongoose.Schema.Types.ObjectId, ref: 'User' }],
  following: [{ type: mongoose.Schema.Types.ObjectId, ref: 'User' }]
});
const User = mongoose.model('User', userSchema);
const postSchema = new mongoose.Schema({
  content: String,
  user: { type: mongoose.Schema.Types.ObjectId, ref: 'User' },
  date: { type: Date, default: Date.now }
});
const Post = mongoose.model('Post', postSchema);
// Helper to verify token and get user ID
const verifyToken = (token) => jwt.verify(token, jwtSecret).userId;
// Register user
app.post('/register', async (req, res) => {
  const { username, password } = req.body;
  const hashedPassword = await bcrypt.hash(password, 10);
  await new User({ username, password: hashedPassword }).save();
  res.json({ message: 'User registered successfully!' });
});
// Login user
app.post('/login', async (req, res) => {
```

```
const { username, password } = req.body;
  const user = await User.findOne({ username });
  if (user && await bcrypt.compare(password, user.password)) {
    const token = jwt.sign({ userId: user._id }, jwtSecret);
    return res.json({ token, userId: user._id });
  }
  res.status(400).json({ message: 'Invalid username or password' });
});
// Post content
app.post('/post', async (req, res) => {
  const { content, token } = req.body;
  await new Post({ content, user: verifyToken(token) }).save();
  res.json({ message: 'Post created successfully!' });
});
// Follow a user
app.post('/follow', async (req, res) => {
  const { token, followUserId } = req.body;
  const userId = verifyToken(token);
  const user = await User.findById(userId);
  const followUser = await User.findById(followUserId);
  if (!user.following.includes(followUserId)) {
    user.following.push(followUserId);
    followUser.followers.push(userId);
    await user.save();
    await followUser.save();
  }
  res.json({ message: `You are now following ${followUser.username}` });
});
```