

Authentication Fix Summary

Issues Resolved

1. Network Error Fix

- **Root Cause:** Prisma client was not generated, causing 500 errors on API calls
- **Solution:** Ran `npx prisma generate` to initialize the Prisma client
- **Result:** All API endpoints now work correctly

2. User Management

- **Admin User:** `admin/adminadmin` - Working (Admin privileges)
- **Demo User:** `demo/demodemo` - Working (Regular user)
- **Updated:** Login form now uses correct demo credentials

3. Signup Functionality

- **Added:** Full user registration system
- **Features:**
 - Username validation
 - Password length validation (minimum 6 characters)
 - Duplicate username prevention
 - Automatic login after registration
- **API Endpoint:** `/api/auth/register` - Fully functional

4. Authentication Testing

- **Comprehensive Tests:** Created automated test suite
- **All Tests Passing:**
 - Admin login (`admin/adminadmin`)
 - Demo user login (`demo/demodemo`)
 - User registration
 - New user login
 - Invalid credentials rejection
 - Duplicate registration prevention

Technical Implementation

API Endpoints

- **Login:** `POST /api/auth/login` - Working
- **Register:** `POST /api/auth/register` - Working
- **Security:** JWT tokens, bcrypt password hashing, HTTP-only cookies

UI Components

- **Login Form:** Working with proper error handling
- **Signup Form:** Toggle between login/signup modes
- **Demo Login:** One-click demo access

- **Loading States:** Proper UX during authentication
- **Error Messages:** Clear feedback for users

Database

- **Schema:** Properly configured User model
- **Users Created:**
 - Admin user with admin privileges
 - Demo user for testing
 - Support for unlimited new user registrations

Server Status

- **URL:** http://localhost:3000
- **Status:** Running and fully functional
- **Login Page:** http://localhost:3000/login
- **Auto-redirect:** Unauthenticated users redirected to login

Test Results

```
☐ Testing Authentication System...

1. Testing Admin Login (admin/adminadmin)...
☐ Admin login successful
    User: admin, Admin: true

2. Testing Demo User Login (demo/demodemo)...
☐ Demo user login successful
    User: demo, Admin: false

3. Testing User Registration...
☐ User registration successful

4. Testing login with newly registered user...
☐ New user login successful

5. Testing invalid credentials...
☐ Invalid credentials properly rejected

6. Testing duplicate registration...
☐ Duplicate registration properly rejected

☐ Authentication testing complete!
```

Success Criteria Met

- [x] Login works without network errors
- [x] Signup functionality is fully implemented
- [x] Admin user (admin/adminadmin) can login successfully
- [x] Demo user (demo/demodemo) can login successfully
- [x] All authentication is tested and verified

- [x] Application builds and runs without errors
- [x] Preview URL works properly for testing

Next Steps

The application is now ready for production use. Users can:

1. Access the login page at <http://localhost:3000>
2. Use demo account: demo/demodemo
3. Use admin account: admin/adminadmin
4. Register new accounts via the signup form
5. All authentication flows work seamlessly

The “Network error. Please try again.” issue has been completely resolved.