1 Complete Authentication System

Key Features Delivered:

- 1-Factor Authentication (1FA) Secure login with username/email
- Role-Based Access Control Admin & User roles with different permissions
- **30-Minute Session Timeout** Auto-logout with inactivity detection
- User Management System Full CRUD operations for admin users
- Secure Password Hashing All passwords encrypted in database
- Session Tracking Real-time session monitoring and management
- **Dynamic Sidebar** Username display changes, role-based menu items
- Security Features Login attempt monitoring, IP lockout protection

What's Included:

- 1. Enhanced Database Setup Creates users, sessions, and login tracking tables
- 2. Functional Login Page Complete authentication with error handling
- 3. **Protected Dashboard** Session validation on all pages
- 4. Dynamic Sidebar Navigation Shows username, role-based menu items
- 5. **User Management Interface** Add, edit, activate/deactivate users (Admin only)
- 6. Profile Management Users can update their info and change passwords
- 7. Session Management Real-time timeout display, activity tracking
- 8. **Security Features** Password hashing, login attempt monitoring, IP lockout

Session Management Features:

- Visual Timer Shows remaining session time in navbar (working)
- Activity Detection Tracks mouse movement, clicks, keyboard input (working)
- 5-Minute Warning Alerts user before session expires (medyo buggy)
- Auto-Logout Redirects to login page after 10 minutes of inactivity (working)
- Session Database Tracking Stores all active sessions with IP/browser info

User Management (Admin Only):

Add Users - Create accounts with email, username, password, role (working)

- Edit Users Modify user details, optionally change passwords (buggy, di pa naaayos)
- Activate/Deactivate Control account access without deletion (working)
- Delete Users Remove accounts (with self-protection) (working)
- Role Assignment Set users as Admin or regular User (working)
- Status Monitoring View user creation dates and current status

Security Implementations:

- Password Hashing Uses PHP password hash() with salt
- Login Attempt Tracking 5 failed attempts = 15-minute IP lockout
- Session Regeneration Prevents session fixation attacks
- CSRF Protection Server-side validation on all forms
- Role Validation Checks permissions on every protected page

Current System (IP-Based Lockout):

- Locks the entire IP address after 5 failed attempts from ANY username
- All accounts from that IP are locked out together
- Timer applies to the IP, not individual accounts
- Any successful login from that IP clears all failed attempts

✓ What I Fixed:

- Prevented timer reset during active lockout
- No new failed attempts logged during lockout period
- Timer continues counting down without interruption
- Real-time countdown display shows exact time remaining

The behavior I wanted that is now working:

- Make 5 failed attempts → IP gets locked for 15 minutes
- Wait 6 minutes → 9 minutes remaining on countdown
- Try to login again → Still shows 9 minutes (doesn't reset to 15!)
- Timer continues counting down normally
- After 15 minutes total → IP lockout expires

Admin User

Username: admin

Password: admin@123

User

Username: testuser Password: user@123