ASL Sign Translator – User Guide

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# 1. Home & Access

**URL:** http://127.0.0.1:8000

**Purpose:** Landing page for both guests and returning users.

**Features:** Welcome Banner, Register and Login buttons.

# 2. User Registration & Verification

**URL:** /accounts/register/

**Purpose:** Create a new user account with email confirmation.

**Form Fields:** Full Name, Email, Password & Confirm, Contact Number

**How to Use:** Fill form, submit, verify via email link.

# 3. Login & Logout

**URL:** /accounts/login/

**Purpose:** Authenticate returning users.

**Form Fields:** Email, Password, Remember Me

**How to Use:** Enter credentials, click Login, use Logout to exit.

# 4. Main Dashboard

**URL:** /dashboard/

**Purpose:** Central hub with stats and links.

**Components:** Welcome Widget, Quick Stats, Navigation Menu

# 5. Profile Management Page

**URL:** /accounts/profile/

**Purpose:** View/update your personal info.

**Features:** Editable fields, Picture upload, Save Changes

**How to Use:** Modify fields, upload image, click Save.

# 6. Password Change Page

**URL:** /accounts/password\_change/

**Purpose:** Securely change your password.

**Form Fields:** Current, New & Confirm New Password

**How to Use:** Enter passwords, click Change, then re-login.

# 7. ASL Prediction Page

**URL:** /predict/

**Purpose:** Run ASL recognition via webcam or file.

**Tabs:** Live Webcam | Landmark Upload

# 7.1 Live Webcam Mode

**How to Use:** Start camera, click Start Prediction, Stop/Clear as needed.

# 7.2 Landmark Upload Mode

**How to Use:** Upload a CSV of landmarks, click Upload & Predict.

# 8. History & Audit Logs Page

**URL:** /history/

**Purpose:** View all past actions and logs.

**Tabs:** Predictions, Sentences, Videos, Audit Logs

# 8.1 Predictions Tab

**Shows:** Timestamped ASL prediction records.

**Actions:** View Details, Delete

# 8.2 Sentences Tab

**Shows:** Generated English sentences.

**Actions:** View Source, Download, Delete

# 8.3 Videos Tab

**Shows:** ASL videos from text.

**Actions:** Play, Download, Delete

# 8.4 Audit Logs Tab

**Shows:** Full chronological audit trail.

**Filters:** By date range or action type

# 9. Sentence Generation (ASL → English)

**How to Use:** After a prediction, click Generate Sentence, then Save.

# 10. Video Generation (English → ASL)

**How to Use:** Enter text under Text to ASL Video, click Generate, then Save/Download.

# 11. Admin Panel (for Superusers)

**URL:** /admin/

**Purpose:** Manage users, logs, all models.

**Key Models:** Users, AuditLog, Predictions, Sentences, Videos

**How to Use:** Login as superuser, use list to add/edit/delete.

# 12. Automatic Video Cleanup

**Behavior:** Nightly job deletes old videos (configurable).

**Monitoring:** Check last run in Admin Settings.

**Override:** Run: python manage.py cleanup\_videos

# 13. Support & Troubleshooting

**Forgot Password:** Use “Forgot Password?” on login page.

**Email Issues:** Verify SMTP and check spam folder.

**Camera Problems:** Serve over HTTPS or allow camera access.

**API Errors:** Check GEMINI\_API\_KEY in .env.

**Logs:** Inspect logs/debug.log for errors.