UNIACCESS – ALL-IN-ONE ACCESSIBILITY ASSISTANT

PROBLEM STATEMENT

- **Many digital platforms are not inclusive.**
- **Users with hearing, speech, or vision impairments struggle to communicate or access information.**

MOTIVATION

WHY THIS PROJECT MATTERS:

- Digital inclusion for all
- Empower users with disabilities
- Reduce communication barriers

SOLUTION OVERVIEW

UNIACCESS IS AN AI-POWERED PLATFORM COMBINING:

- Real-time captioning
- Sign language translation
- Color-blind friendly mode

FEATURE 1 – REAL-TIME AI CAPTIONING

- Converts speech to live captions
- Multi-language support
- Helps hearing-impaired users follow conversations

FEATURE 2 – SIGN LANGUAGE TRANSLATOR

- **Detects basic hand gestures via webcam**
- **Converts signs into text/speech**
- **Optional animated sign avatar**

FEATURE 3 – COLOR-BLIND FRIENDLY MODE

- Adjusts web colors for better visibility
- Detects problematic color combinations automatically

HOW IT WORKS / ARCHITECTURE

- **Flow:**

  User → AI Processing → Output

IMPACT & BENEFITS

- Empowers hearing, speech, and vision-impaired users
- Cost-effective and scalable
- Promotes digital inclusion

CONCLUSION & CALL TO ACTION

- **UniAccess makes the digital world inclusive for everyone.**
- **Let's use AI to break barriers and empower users with disabilities.**

THANK YOU