

Sign-Sync

User Manual Document (Demo 2)



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Sign Sync

Sign Sync is a web application developed by the University of Pretoria student group, Apollo Projects with the external company Gendac acting as the client. Sign Sync is designed for all users but at the core is a communication tool meant to bridge the gap between those that understand and make primary use of sign language and those that do not. Sign Sync offers real time translations between signed languages like ASL and text or speech.

What SignSync Does

- Converts spoken or typed words into sign language animations
- Converts sign language into spoken words or text

Key Benefits

- Real-time translation between speech and sign language
 - Works on computers, tablets, and smartphones
 - Customizable settings for individual needs
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Getting Started

While SignSync does not require an account to be used, it is heavily recommended to set one up as you will have access to customizable features

Creating Your Account

1. Click the "Sign Up" button
 2. Enter your:
 - Email address
 - Secure password
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Using SignSync

Speech to Sign Language

1. Click the microphone icon
2. Speak clearly into your microphone
3. The system will display sign language animations

Sign Language to Speech

1. Click the camera icon
 2. Position your hands clearly in view
 3. The system will convert signs to spoken words
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Customizing Your Experience

1. Click the gear icon (Settings)
 2. Customize:
 - Avatar appearance
 - Translation speed
 - Font size
 - Display themes
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Troubleshooting Common Issues

Camera not showing

- Ensure that your camera permissions are allowed for the website
- Click the camera icon to the left of the URL

No speech input

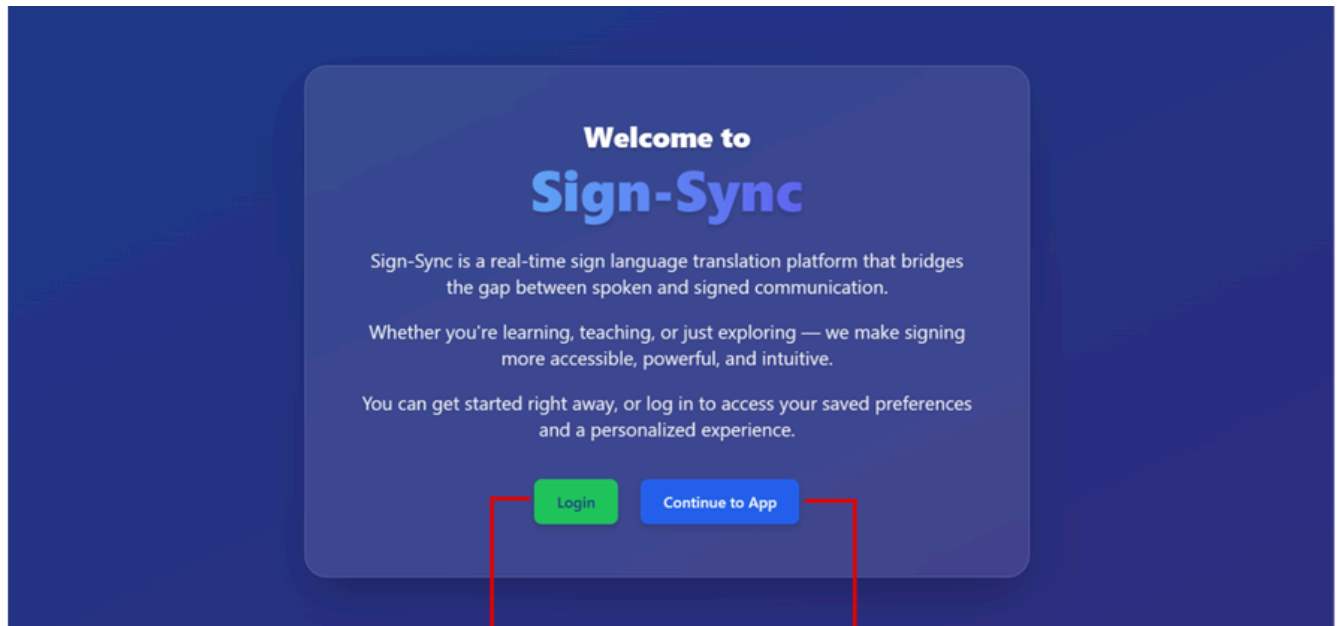
- Ensure that sight has permission to use microphone
- Check system settings to see if your microphone is enabled

Camera not picking up signs

- Ensure that your environment is well lit
- Do not wear gloves

Page Guide

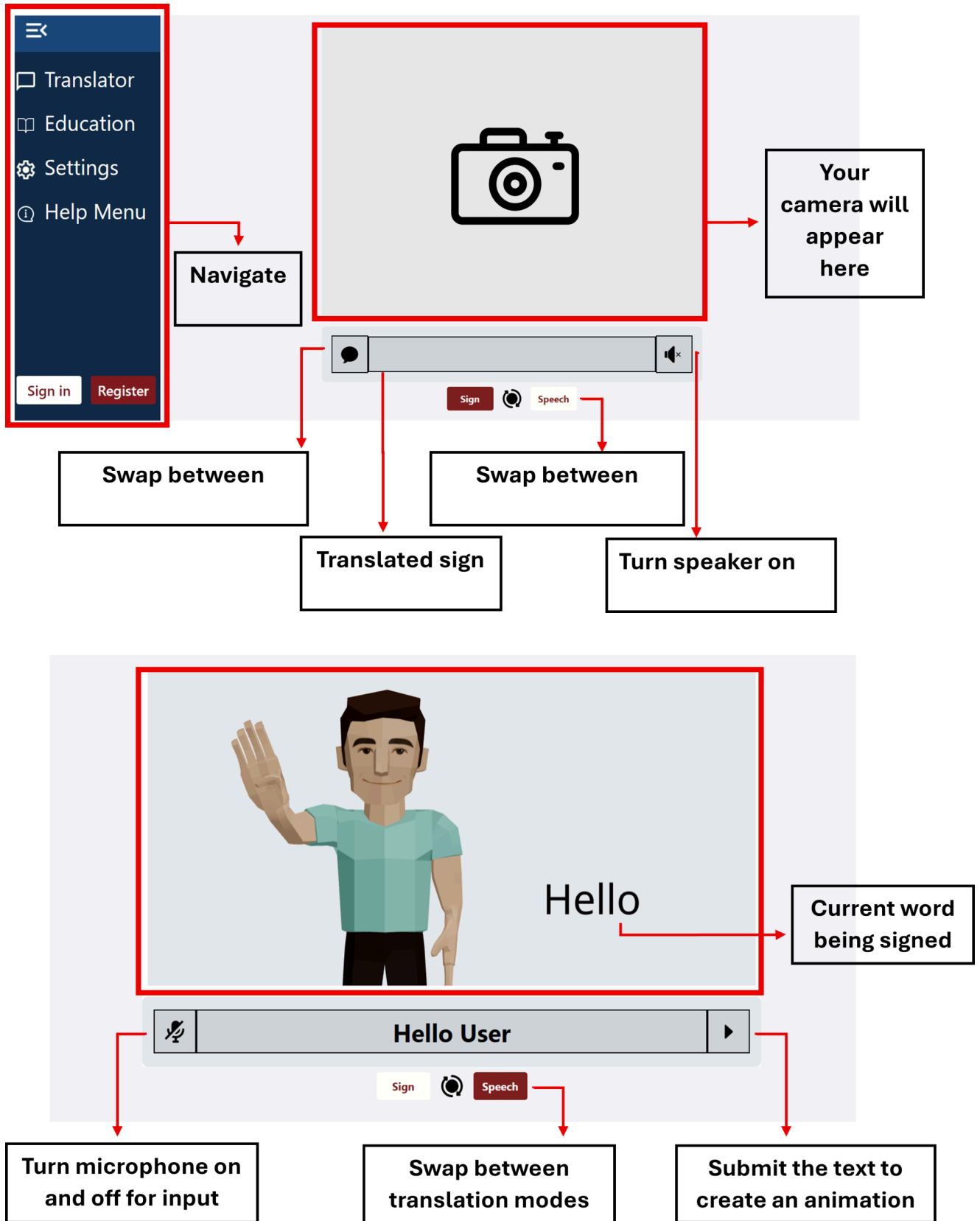
Landing Page



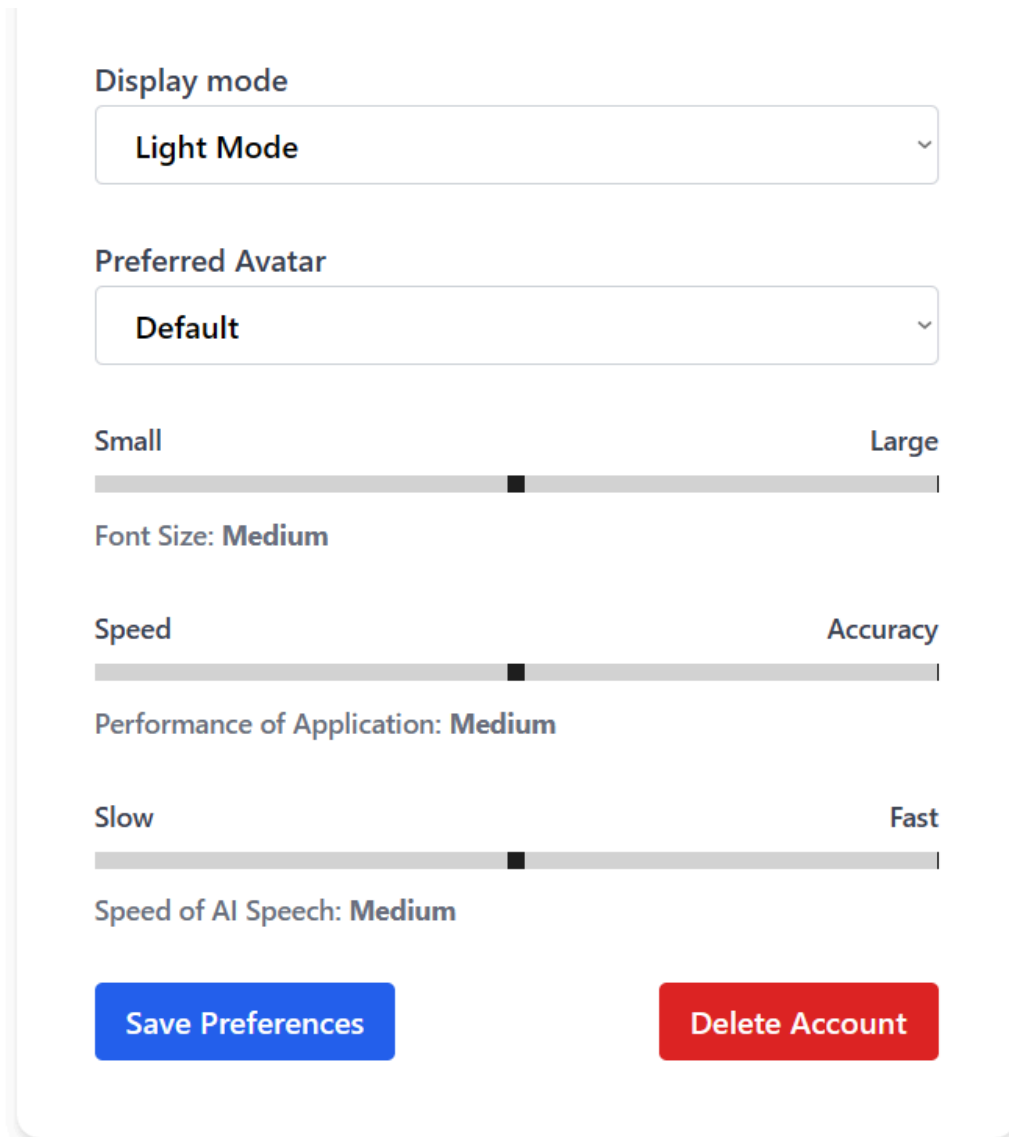
This will lead you to the login page if you have made an account or to the registration page if you have not

Regardless of whether you have an account or not, you still have access to Sign Sync and this will take you to the translation page

Translation Page



Settings Page



The settings page is a light gray rounded rectangle containing several controls. At the top is a 'Display mode' dropdown menu with 'Light Mode' selected. Below it is a 'Preferred Avatar' dropdown menu with 'Default' selected. The next section is a slider for 'Font Size' ranging from 'Small' to 'Large', with a black marker at the 'Medium' position. Below the slider is the text 'Font Size: Medium'. The next section is a slider for 'Performance of Application' ranging from 'Speed' to 'Accuracy', with a black marker at the 'Medium' position. Below the slider is the text 'Performance of Application: Medium'. The final section is a slider for 'Speed of AI Speech' ranging from 'Slow' to 'Fast', with a black marker at the 'Medium' position. Below the slider is the text 'Speed of AI Speech: Medium'. At the bottom are two buttons: a blue 'Save Preferences' button and a red 'Delete Account' button.

Display mode

Light Mode

Preferred Avatar

Default

Small Large

Font Size: **Medium**

Speed Accuracy

Performance of Application: **Medium**

Slow Fast

Speed of AI Speech: **Medium**

Save Preferences Delete Account

- Display Mode - A choice between Light, Dark and Contrast themes
- Preferred Avatar - Choose the avatar visible in the translation mode
- Font size - Control size of all fonts across the whole website
- Performance - Fine tune the AI's speed vs its accuracy
- Speed of AI Speech - Control how fast the text to speech is