Israeli Sign Language Letters Recognition Application
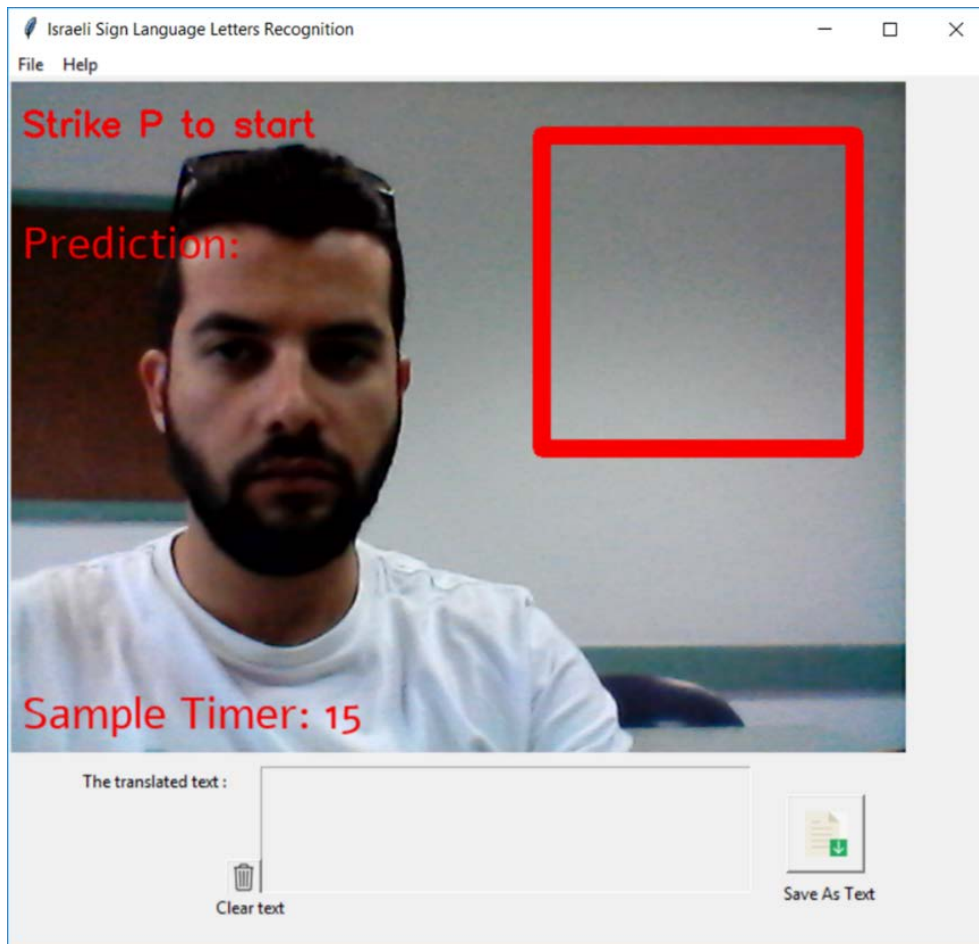
User Guide

Welcome to the Israeli Sign Language Letters Recognition Application

The application translates the Israeli Sign Language Letters into text in real time.

First Step -Get to know the app

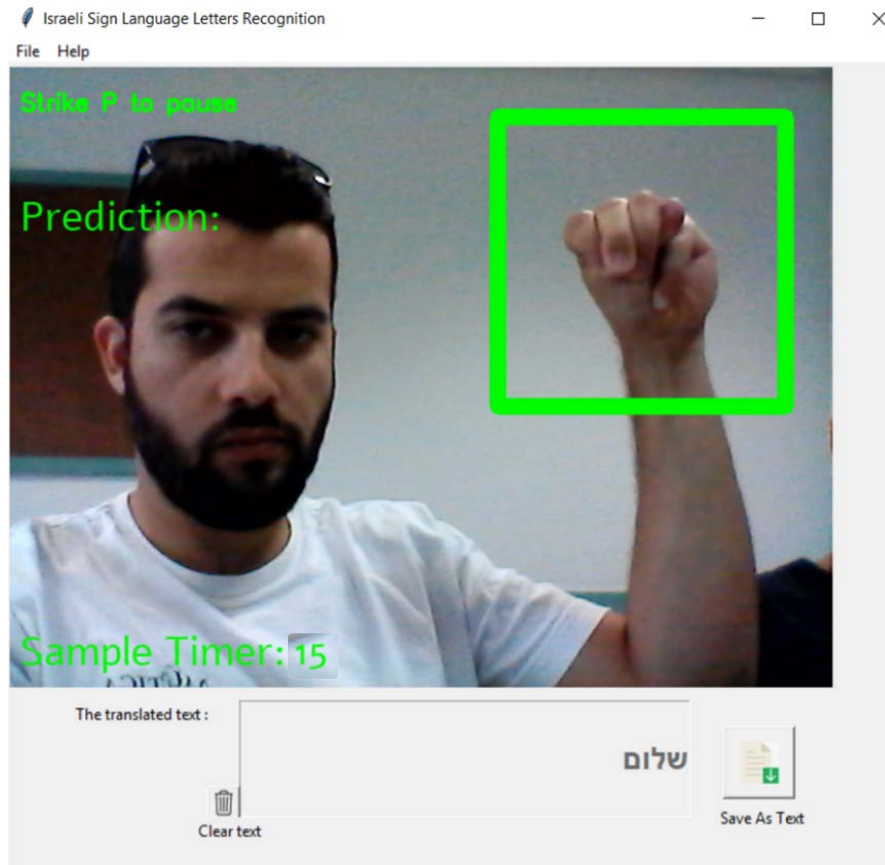When opening the application, the main screen will appear.

In the main window, we can see almost all the options that our system offers.
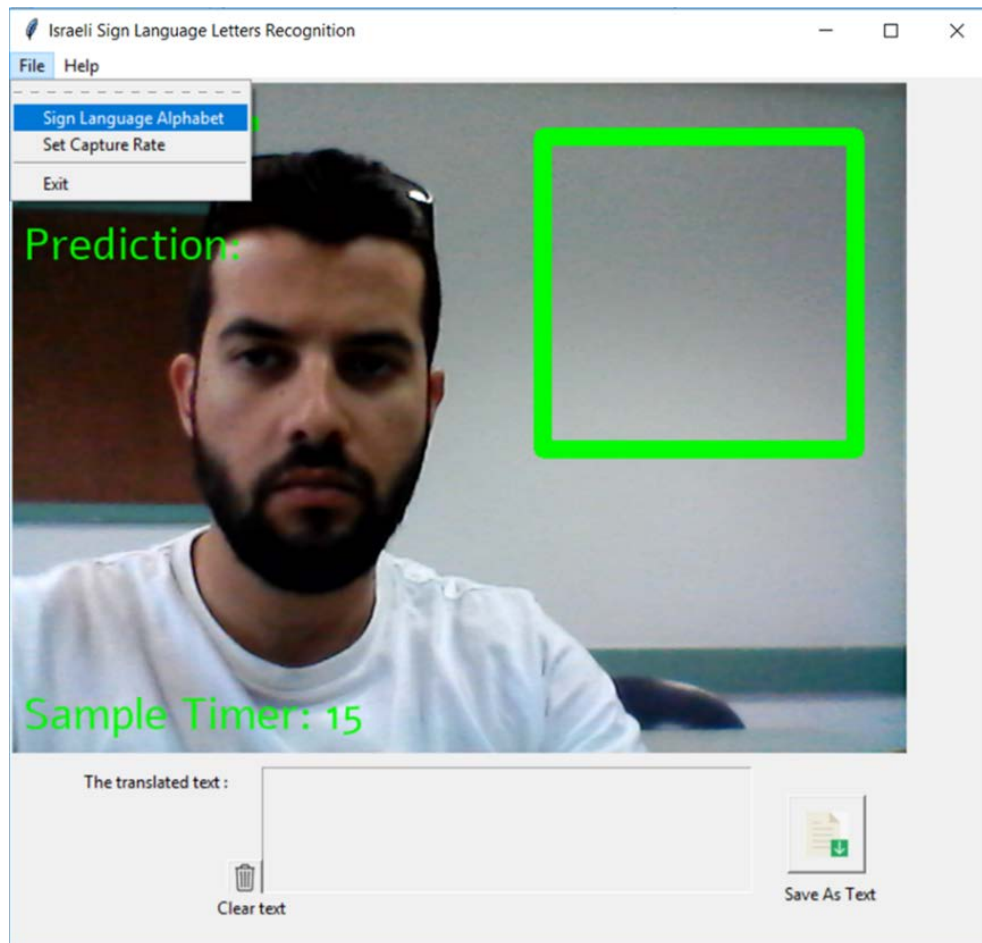
Components description:

- A red square (ROI - area of interest) represents the area where the frame is taken, due to this fact, you hand need to be at the middle of the square while marking the sign(letter).
- The menu bar including the tabs File and Help.
- The "Sample Timer" label indicates the rate time(seconds) that each letter is written to the text box, in this short time the user could adjust his hand to mark the wanted sign.
- In the lower part of the window the translated text will appear, with the options of saving the translated text as a text file and clearing the text box by clicking the garbage icon.The text box is uneditable means, it cannot be change/add letters to the translated text.

2

The prediction process

In order to start the prediction procedure, press the "P" button. When pressed, the ROI will turn into green and the you could start the recognition process.
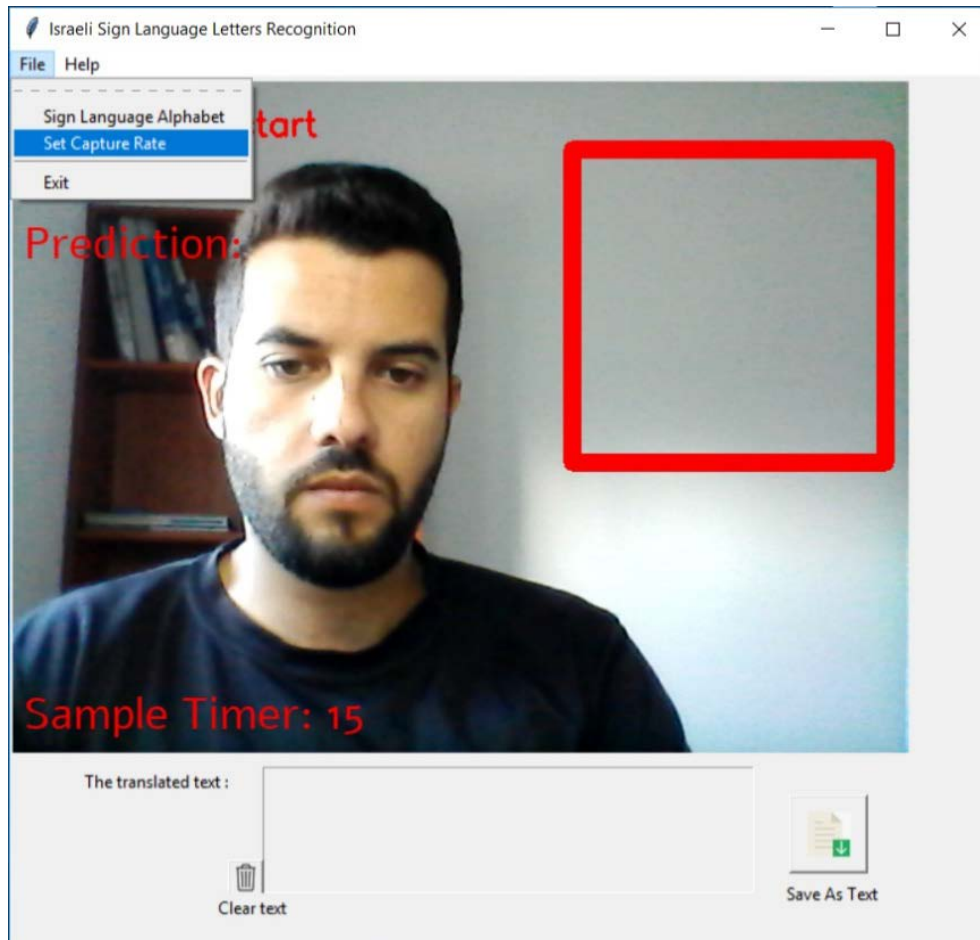

When "Save As Text" button is pressed, a text file is created with the translated text.
in case, the user pressed "Clear text" button, the text in the text box will be deleted.
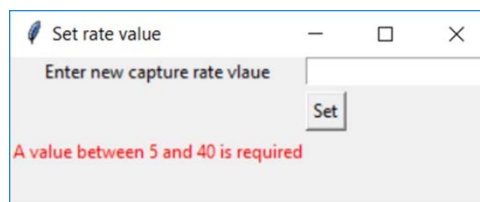If "P" is pressed again the predict process will pause.

During the recognition process a Legend of the Israeli sign language letters window can be opened, by click File ->Sign Language Alphabet and the next window will appear.
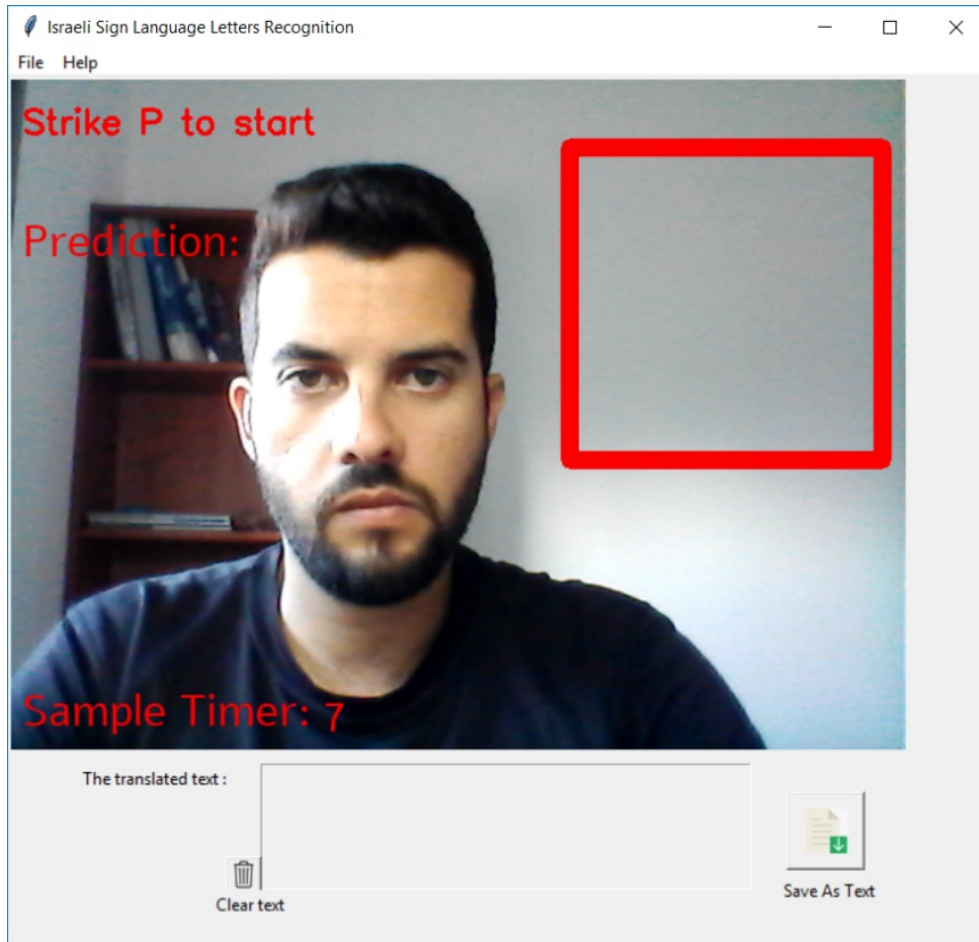
Capture rate can be determined according to user convenience.

After clicking on the Set Capture Rate in the File menu the next window will open.

The value is between 5-40 seconds. After choosing the wanted value it will be automatic update on the main screen as shown.

The change in the sample value will determine the speed that the letters will written in the text box.

Thank you and have a pleasant and teachfull use!