

VOICE BASED AUTOMATION FOR INCIDENT CREATION



INTRODUCTION

In this digital age, automation plays a vital role in enhancing user experience and streamlining processes. With the advancements in speech recognition technology, integrating voice commands into websites has become increasingly popular. Today, we will explore how the powerful combination of Selenium, a widely-used automation framework, and Vosk, speech-to-text model, can revolutionize website automation.

SOFTWARE REQUIREMENTS

- Python
- Selenium Library
- Chrome Driver
- Vosk Voice Model



VOSK

*Vosk is an open-source speech recognition toolkit developed by Kaldi
Vosk utilizes deep learning techniques to achieve high-quality speech recognition performance.*

Key features of Vosk include:

- *Vosk supports various languages*
- *offline model*
- *Doesn't require 3rd party API*



SELENIUM LIBRARY

Selenium is a popular open-source library and framework used for automating web browsers. It provides a set of tools and APIs that enable developers to interact with web applications and perform automated actions, such as clicking buttons, filling out forms, navigating through pages, and extracting data.

Key features of Selenium include:

- **Browser Compatibility:** Selenium supports multiple web browsers
- **Interaction with Web Elements** such as buttons, text fields, dropdowns, checkboxes, and more



IMPLEMENTATION STEPS

1. Load Vosk Model
2. Selenium WebDriver Instance
3. Set Up Voice Recognition
4. Implement Voice Recognition and Automation Loop
5. Code according to the website's structure



OUTPUT

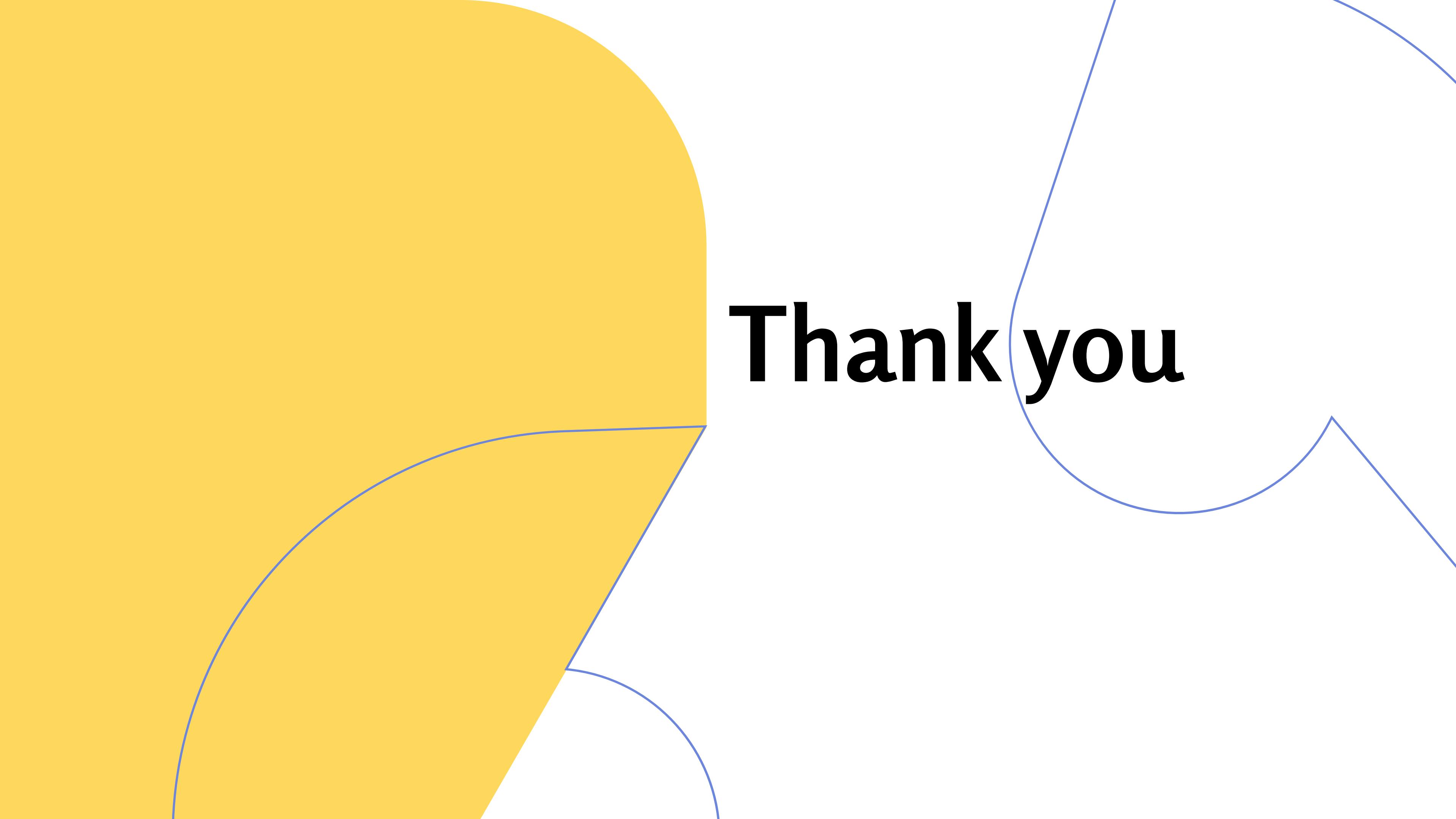
By integrating Selenium and Vosk, we were able to achieve 95% accuracy in indent creation through voice-based automation. Faster, easier, and more efficient!

Advantages:

- *open source voice model*
- *Privacy*
- *low end pc*

Challenges :

- *The requirements should be available in the clients system and cant be used from server side.*
- *Vosk has an accuracy of only 80% .*



Thank you