

Set up development environment

Prepare the development environment with necessary dependencies.
VSCode, Python, OpenAI API, Configure background environment

Develop frontend form interface

Build a responsive and user-friendly frontend.
React and Tailwind CSS

Integrate Voice-to-Text

Capture and preprocess audio input. Convert speech to text and handle multiple languages using Whisper
Whisper API

Implement Language Translation

Provide support for multiple languages based on user needs.
Google Translate API

Backend Development for Data Handling and Processing

Set up backend server to handle data processing, validation, and response formatting.
Python, Django, REST API framework

Testing and Debugging

Implement unit tests for each module (voice processing, form filling). Test UI with Selenium to ensure real-time updates work as expected.
PyTest (unit testing), Selenium (UI Testing)

Deployment

Deploy the frontend and backend to Vercel for live testing and scaling
Vercel, GitHub Actions (for CI/CD)

Monitoring and Optimising

Use monitoring tools to track performance and identify areas for improvement
Vercel Analytics