

Intelligent Assistant

Innovative features to improve user experience for the OP Portal users. Voice top notch technology.



Intelligent Assistant

About

The OPIA Intelligent Assistant was developed in line with the EU Parliament mandate of the "Reading Disability and Document Access" RDDA Pilot project.

OPIA is a powerful tool that detects your voice and using intelligent algorithms turns voice input into text without the need to type.

The Intelligent assistant's goal is to increase usability of the search portal with two main functionalities:

- Speech-to-text algorithm - simple and fast way to search the database with using only voice
- Intelligent search assistant - enabling to search the database to get quick answers with advanced content filtering

It is up-to-date solution tailored to the needs of people with disabilities and adapting to the current online searching trends increasingly using chatbots in a natural progression for information-gathering on the internet.

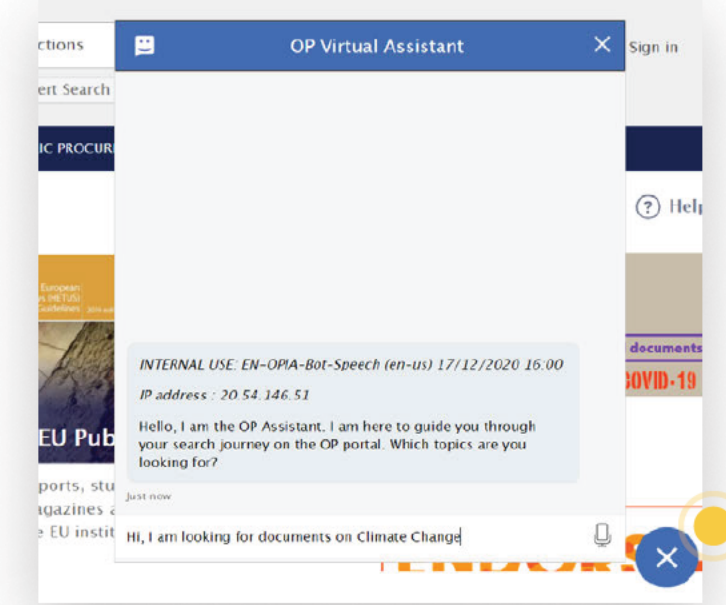
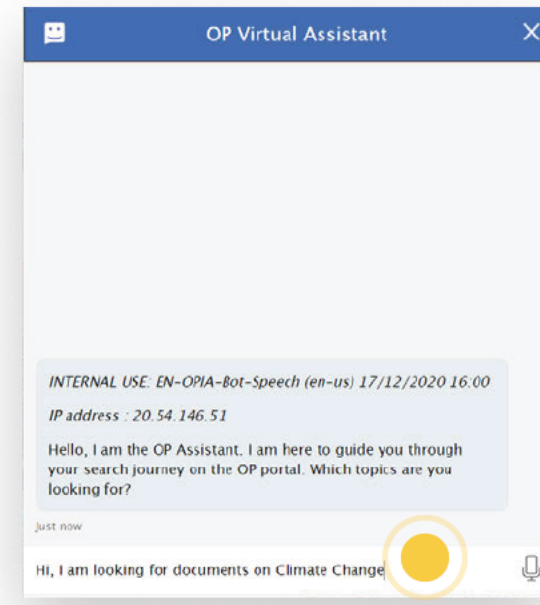
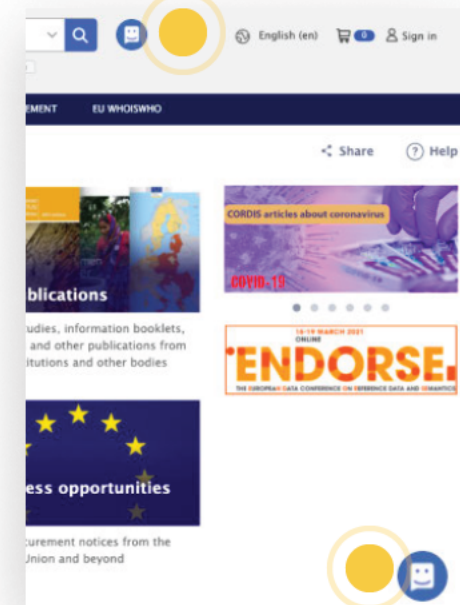
Great Features

Search Assistant

Simple and fast to use. To activate all you need to click to one of the two OPIA icons and start searching. No need to download. With advanced content filtering you would search the database to find relevant publications and content you want in a faster way.

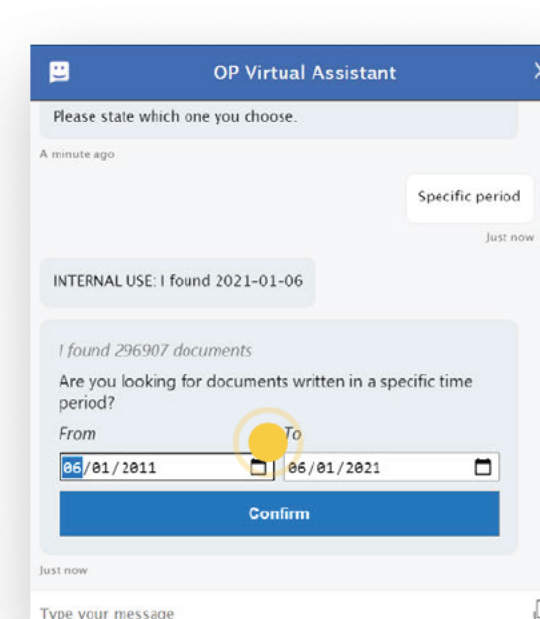
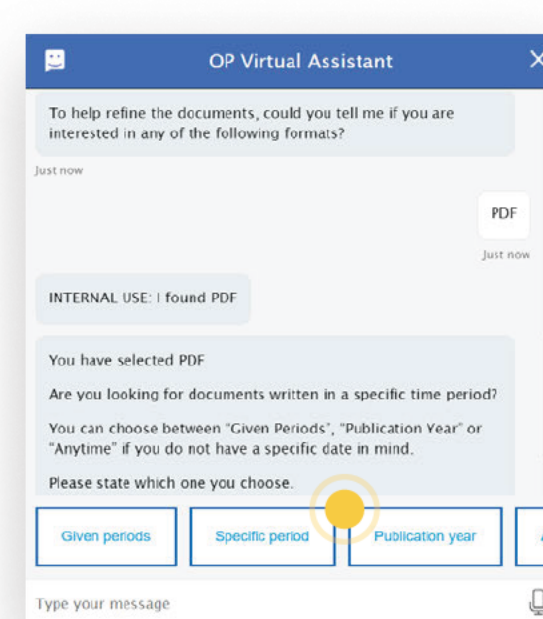
EASY AND FAST INTERACTION

Simple and fast to use. To activate all you need to click to one of the two OPIA icons and start searching. To close simply click close icon.



ADVANCED FILTERING

With advanced content filtering you would search the database to find relevant publications and content you want in a faster way.



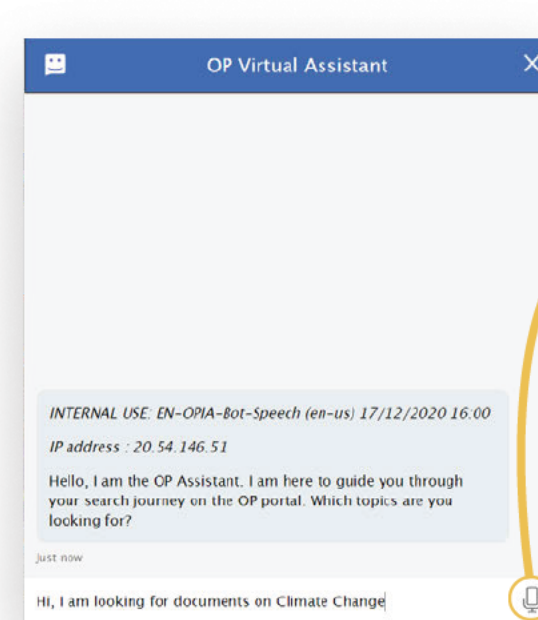
Great Features

Speech to text

Speaking is more natural and easier than typing so thanks to Speech to text feature all you need to do is to make sure that microphone in your mobile phone or laptop is working and click on the Microphone icon. The Language detecting system would turn your speech into searching text. Just Click & Speak.

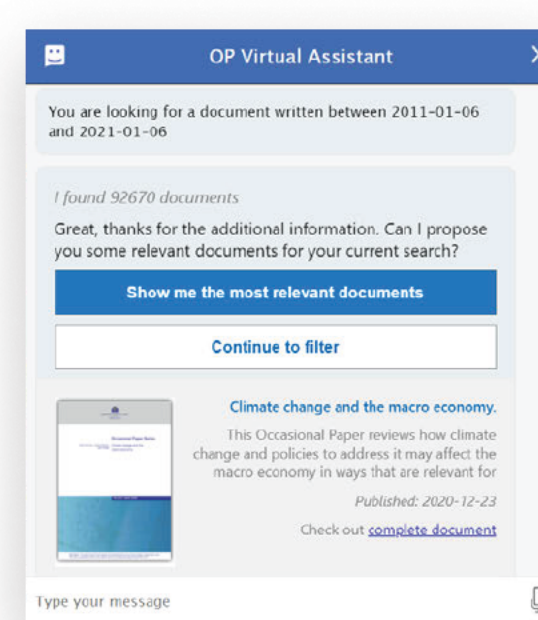
SPEECH TO TEXT ALGORITHM

Intelligent algorithm uses your device's microphone to detect your speech and turns voice input into searching text with no need to type.



AUTOMATIC LANGUAGE DETECTION

The system automatically determine the source language (currently English or French) and adapts it to the interaction without the need to select the language manually. in addition, the publication will be searched in the language of your choice



Great Features

User Experience

Thanks to Artificial Intelligence we no longer need to download the application. Advanced Text and Voice Assistant is incredibly valuable to people with disabilities and as users constantly demand one step ahead, better and more seamless experiences in digital environments is made possible by the increased involvement of chatbots - new generation channel to fully experience OP database.

ASSISTANCE FOR THE DISABLED

Users with disabilities can search with speech function to make the process easier and more accessible.

NO NEED TO DOWNLOAD

There is no need to download the system, to fully experience you only need to click on one of the icons and it is ready to go.

TAILORED TO MARKET NEEDS

The popularity of chatbots is growing faster every year, users want to use them so they are becoming a permanent part of internet reality.

COMPLETE ACCESS

You don't have to choose a catalog, just say what you are looking for and the assistant will find the right publication for you from the whole database.

Technology Used



ELASTIC SEARCH

Elasticsearch is a distributed, free and open search and analytics engine for all types of data, including textual, numerical, geospatial, structured, and unstructured. It offers fast search responses due to index searching instead of searching the text directly.



LIFERAY

Liferay is an Enterprise content management framework and software development platform. It is a dynamic and highly scalable solution offering support for many programming languages like Java, C++, PHP, .NET and many more.



MICROSOFT AZURE

Microsoft Azure is a cloud computing solution offering a software, service, platform and infrastructure options for deploying applications and services on Microsoft-managed data center infrastructure.

Microsoft AI

MICROSOFT AI

Microsoft AI is a robust framework for developing AI solutions in conversational AI, machine learning, data sciences, robotics, IoT, and more. Through AI, system can analyze images, comprehend speech, use them naturally, and make predictions using data.



LUIS

Language Understanding (LUIS) is a cloud-based conversational AI service that applies custom machine-learning intelligence on which azure speech can be integrated such as Azure speech service that converts spoken language requests into text.



BOT FRAMEWORK

Azure Bot Framework integrates LUIS for sophisticated composition of Bot replies using language generation. With Bot it is possible to use visual editing canvas for the conversation flows and adapt the entity and intent recognition.