

# 🗣 go42TUM User Guide

A Voice Assistant for TUM Application

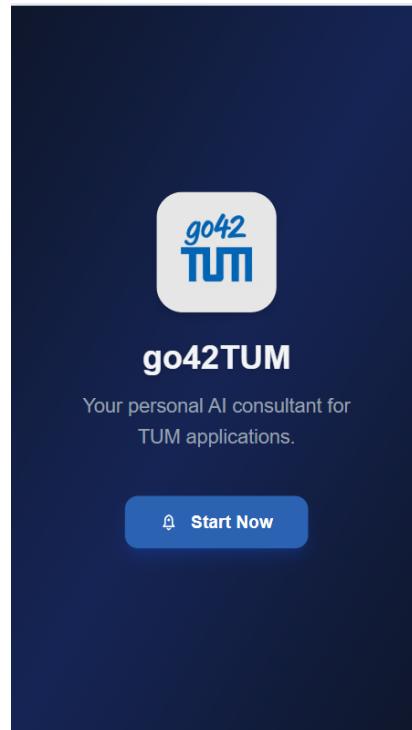
**Group:** 5

**Live Demo:** <https://voice-assistant-gilt.vercel.app/>

**GitHub Repository:** <https://github.com/tsaichen10/voiceAssistant>

## 1. Introduction

**go42TUM** (pronounced "go-for-TUM") is an intelligent voice assistant specifically designed to help prospective students navigate TUM's application process. The name represents our mission to make it easier for everyone to "go for TUM" - to pursue their educational dreams at Technical University of Munich without barriers. **go42TUM** integrates voice-first interaction, real-time guidance, multilingual capabilities, and session tracking to enhance usability and streamline the application process.



### 👥 Who is it for?

- Prospective TUM applicants

### 💻 How does it work?

User type in or speak to tum application related problems.

1. The user types or speaks a question related to the TUM application process.
2. The system analyzes the query and retrieves relevant information using Vertex AI Search.
3. Gemini generates an enhanced response based on both the user's input and the retrieved results.
4. The user receives a response in text or audio format.

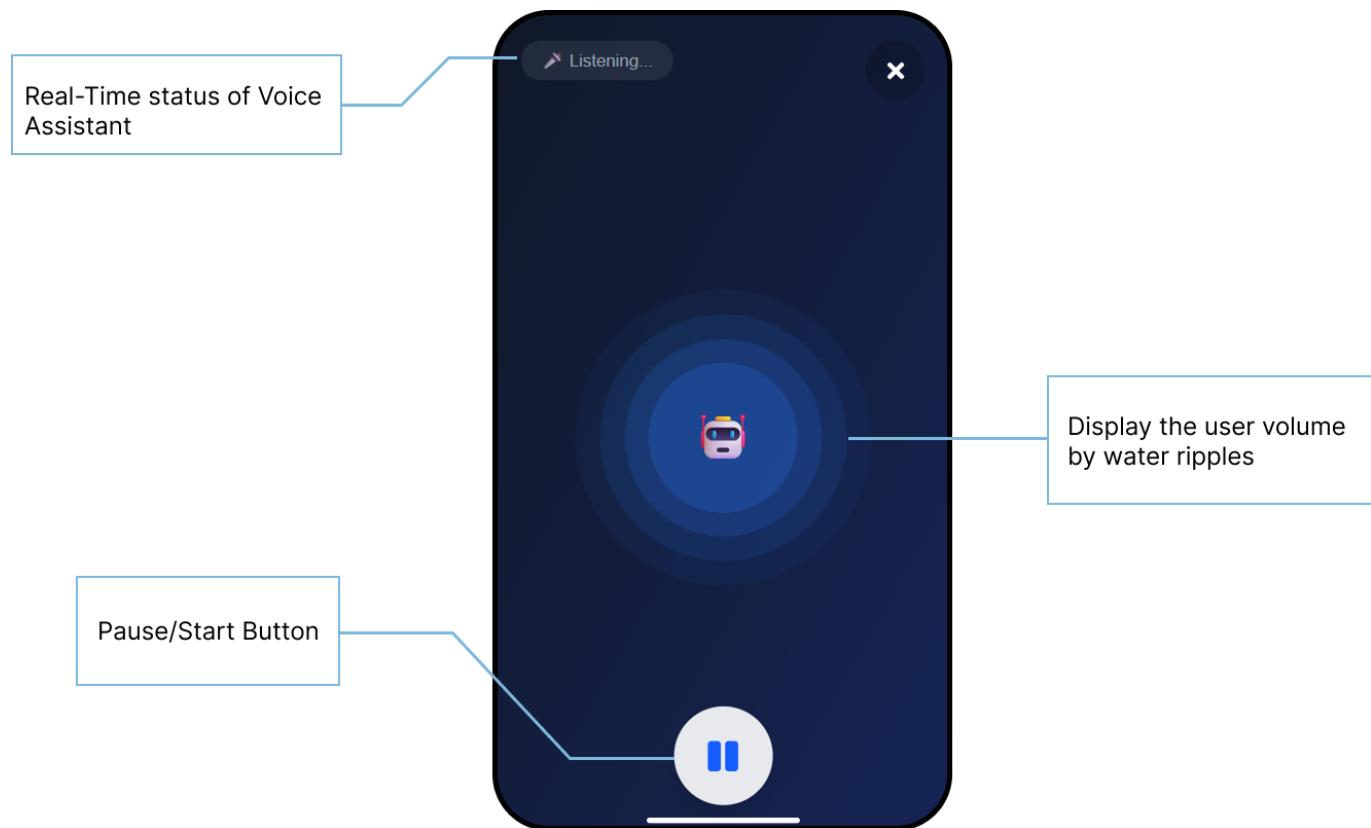
## 2. Key Features

### ⌚ Voice-First Interaction

Natural voice conversations with real-time audio processing and intelligent interruption detection.

### ⚡ Instant Application Guidance

The system provides real-time answers to TUM application-related questions by retrieving the most relevant and up-to-date information from trusted sources.



### 🧠 AI-Powered Response Generation

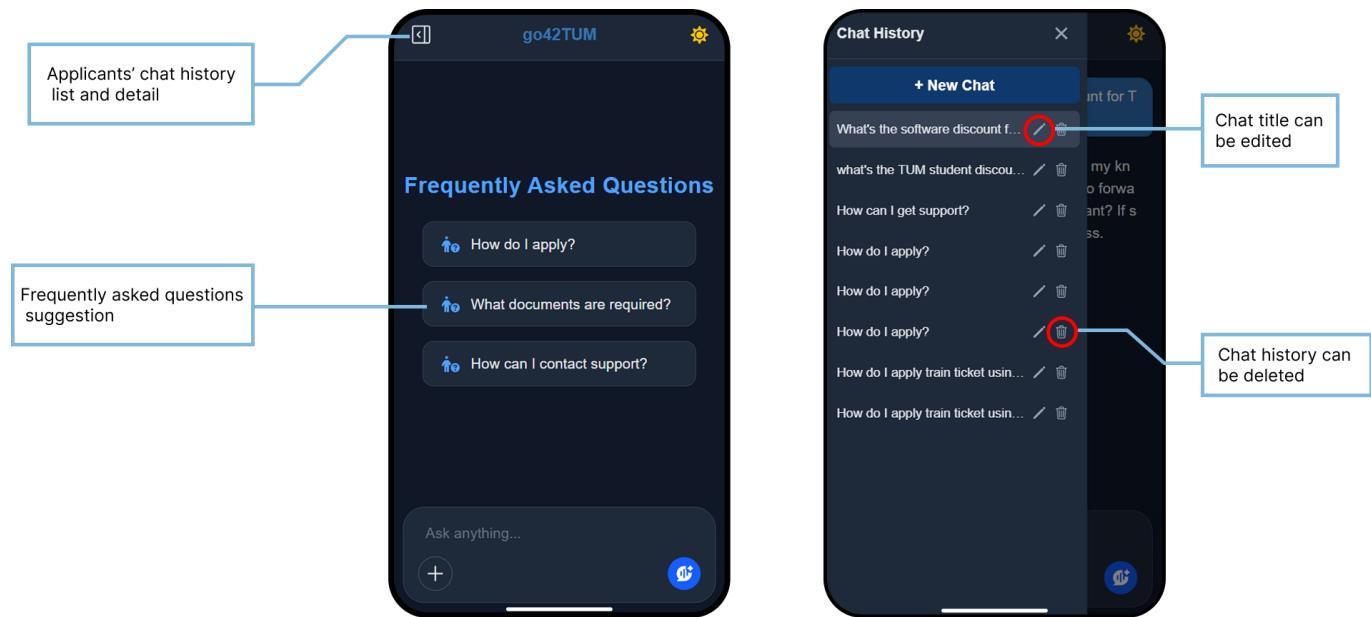
Powered by Gemini and Vertex AI Search, the system generates accurate and context-aware responses based on user queries and retrieved information.

### 👁️ Smart FAQ System

Dynamic suggestions and clickable FAQ items for common questions.

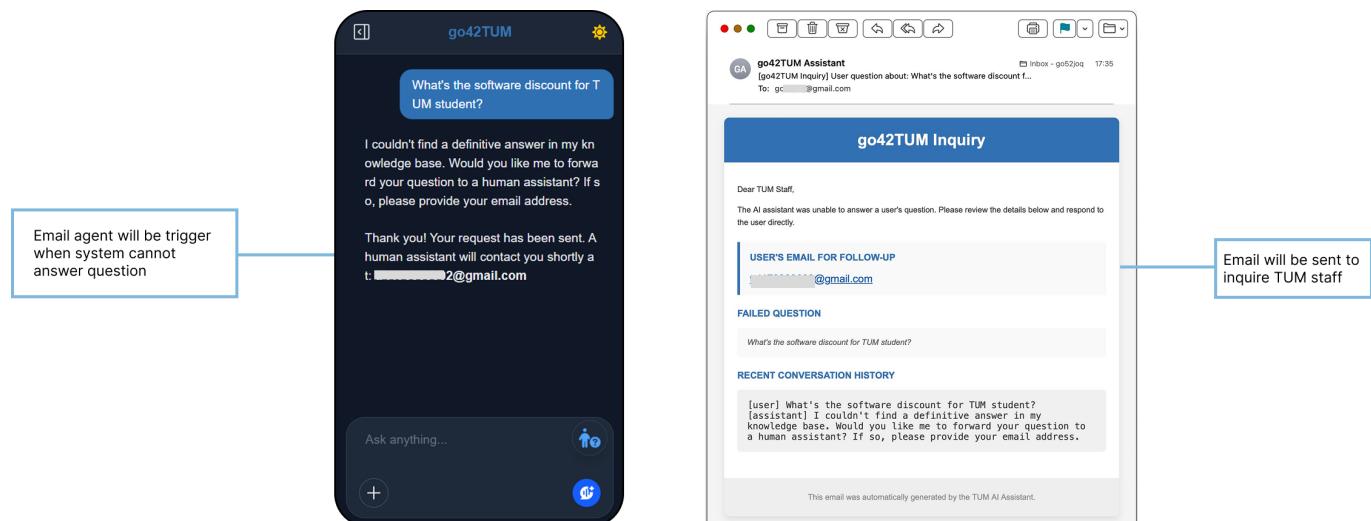
### 📄 Chat History Storage

Provide users with persistent chat history and context-aware conversations.



## ✉️ Email Agent

When the system encounters questions beyond its knowledge base, this agent will intelligently compose and send emails to relevant TUM staff members.



## 3. Getting Started